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HGL
HydroGeoLogic, Inc
Exceeding Expectations

Kansas City Operations

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June 12, 2012

To File

Mr. Jim Seiler
AES Project Officer
U.S. Environmental Protection Agency, Region 7
901 North 5th Street
Kansas City, KS 66101

RE: Semiannual Groundwater Sampling Report, December 2011 and March 2012 Sampling Events for the Garvey Elevator Site, Hastings, Nebraska.
U.S. EPA Region 7 AES Contract No. EP-S7-05-05; Task Order No. 0034
EPA Task Order Project Officer: Brian Zurbuchen, Ph.D.

Dear Mr. Seiler:

HydroGeoLogic, Inc. (HGL) is pleased to submit one electronic copy on CD and one hard copy of the Semiannual Groundwater Sampling Report, December 2011 and March 2012 Sampling Events for the Garvey Elevator Site, Hastings, Nebraska. This document was prepared in accordance with Task Order 0034; our EPA-approved Task Order Proposal Amendment 1, Revision 1 submitted on September 19, 2011.

As requested by EPA, two additional hard copies of the Semiannual Groundwater Sampling Report, December 2011 and March 2012 Sampling Events will be sent to Laurie Brunner at the Nebraska Department of Environmental Quality. Should you have any questions or comments, please contact us at 913-317-8860.

Sincerely,

[redacted], P.E.
HGL [redacted]ger

For [redacted].G., CHMM
AES Program Manager

The following Appendices are available only on CD
Attachment 5
Attachment 6

Enclosures

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**SEMIANNUAL GROUNDWATER SAMPLING REPORT
DECEMBER 2011 AND MARCH 2012 SAMPLING EVENTS
GARVEY ELEVATOR SITE
HASTINGS, NEBRASKA**

TO:	Brian Zurbuchen, Ph.D., EPA TOPO
FROM:	[redacted].E., HGL Project Manager
THROUGH:	[redacted], P.G., CHMM, AES Program Manager
DATE:	June 12, 2012
SUBJECT:	Quarterly and Semiannual Groundwater Sampling, Garvey Elevator Site
CONTRACT NO:	EP-S7-05-05
TASK ORDER NO:	0034

1.0 INTRODUCTION

This data summary report describes the field sampling activities completed by HydroGeoLogic, Inc. (HGL) in December 2011 and March 2012 at the Garvey Elevator Site (Garvey) in Hastings, Nebraska. The site location is illustrated on Figure 1 in Attachment 2. These sampling efforts are part of the ongoing activities to support the remedial action being conducted by HGL under Region 7 U.S. Environmental Protection Agency (EPA) Architect and Engineering Services (AES) contract EP-S7-05-05.

The site background, history of operations, and past investigations are described in detail in the final *Remedial Investigation Report* prepared by HGL in April 2011 under task order 0033 (HGL, 2011). Work at the site commenced under task order 0033 and is continuing under task orders 0034 and 0046. A brief chronology of regulatory actions at the site follows:

- July 1994. Garvey notified the Nebraska Department of Environmental Quality (NDEQ) of a release of organic solvents and the presence of groundwater contamination at its grain storage facility (EPA, 2010). The discovery date of the carbon tetrachloride release was June 16, 1994. Carbon tetrachloride was detected in an on-site water supply well at 199 micrograms per liter (μg/L) during a Phase I Environmental Site Assessment (Terracon, 1994).
- April 1995. Garvey Elevators, Inc. entered the NDEQ Remedial Action Program Monitoring Act (RAPMA) Voluntary Cleanup Program (VCP). While in the VCP, Garvey conducted further site characterization, installed the groundwater extraction and treatment (GET) and soil vapor extraction (SVE) systems, and provided alternative drinking water sources to affected residents.
- 1997. The city of Hastings notified NDEQ that carbon tetrachloride was detected in municipal well #13 located 1,500 feet northeast of the former Garvey property.
- 2002 and 2003. EPA assisted NDEQ with site evaluations.
- September 14, 2005. The Garvey Elevator Site was placed on the National Priorities List.

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- September 28, 2005. In preparation for sale of the property to Ag Grain Processors (AGP), who are the current owners of the property, Garvey Elevators, Inc., AGP, and EPA entered into an agreement to allow proceeds from the sale of the grain elevator to be used for investigation and site cleanup (EPA, 2005). Garvey subsequently agreed to conduct investigation and source area treatment activities at the Garvey Elevator Site. In a separate agreement with AGP, Garvey Elevators, Inc. placed money into an escrow account to fund response actions at the site.
- March 27, 2008. Garvey Elevators, Inc. filed Chapter 7 bankruptcy.
- April 2008. EPA instructed Garvey Elevators, Inc., and its contractors to stop work at the Site.
- May 2008. EPA took over ongoing removal activities, including providing alternative water supplies to affected residents, and operation and maintenance of the GET and SVE systems. EPA designated two operable units (OUs) at the Site. OU1 consists of soil and groundwater contamination that is generally within the boundaries of the 22-acre property historically used by Garvey in its grain storage facility operations. OU2 consists of the contaminated groundwater outside of OU1, in the general direction of groundwater flow to the east.
- December 2008. EPA initiated a fund-lead Remedial Investigation/Feasibility Study (RI/FS) that includes a human health risk assessment and screening level ecological risk assessment.
- June 2010. EPA published an Interim Record of Decision (ROD) for Garvey Elevator Site OU1 that addressed soil and groundwater contamination on site. The selected interim remedy included continued operation, and possible expansion, of the existing GET system (EPA, 2010).

Groundwater monitoring has been ongoing at the site since the Interim ROD was published. Six rounds of sampling have been conducted. The baseline sampling was conducted in June 2010 and documented in the RI report. The September 2010, December 2010, March 2011, and September 2011 sampling events were documented in the first Semiannual Groundwater Sampling Report, dated January 6, 2012 (HGL, 2012).

The current sampling plan calls for quarterly sampling at OU1 and semiannual sampling at OU2. This report focuses on the two most recent rounds of sampling: quarterly sampling at OU1 conducted in December 2011 and semiannual sampling at OU1 and OU2 in March 2012.

Groundwater level measurements and elevations and the analytical data are summarized in tables in Attachment 1. Maps and figures are presented in Attachment 2. Trend graphs showing concentration trends for carbon tetrachloride and chloroform in selected monitoring wells are presented in Attachment 3. The complete analytical results are tabulated in Attachment 4. Field forms and analytical data reports are provided in electronic form as Attachments 5 and 6, respectively.

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2.0 FIELD ACTIVITIES

The quarterly sampling activities at OU1 were conducted December 13 through December 20, 2011. A total of 47 monitoring wells were gauged and sampled. The semiannual sampling activities at OU1 and OU2 were conducted March 12 through March 19, 2012. A total of 83 monitoring wells were gauged and sampled at that time. Additional samples were collected from the old and new water wells on the Dean Rolls property during the semiannual sampling. The well locations are shown on Figure 2 (Attachment 2).

Field activities were conducted in accordance with the EPA-approved Work Plan and Field Sampling Plan (FSP) Addendum prepared under task order 0033 (HGL, 2009 and 2010). Any deviations from the procedures presented in the Work Plan and FSP are discussed in the relevant subsection. Quality control (QC) samples were collected to ensure usability of the data as detailed in Section 2.3.

2.1 WATER LEVEL GAUGING

On December 13, 2011 and March 15, 2012, the water levels in the monitoring wells were measured with an electronic water level probe before initiating groundwater sampling activities. The water levels in the Waterloo Multilevel System monitoring wells (MW-19A/C, MW-20A/C/D/E, MW-30A/C/D/E, and MW-31A/C) were recorded at the GET system programmable logic controller (PLC). Dedicated transducers in the Waterloo wells were attached to a telemetry system in April 2011, which relays water level measurements to the PLC. Table 1 in Attachment 1 summarizes the water level measurements and associated groundwater elevations for each of the field events.

During past sampling events, a photoionization detector (PID) was utilized to measure possible organic vapor concentrations emanating from the monitoring wells. PID readings were collected from the wellhead immediately upon opening the well cap. Because no PID readings were measured above background, the wellhead monitoring was discontinued after the March 2011 sampling event and so no PID readings are recorded on the water level measurement forms included in Attachment 5.

2.2 GROUNDWATER SAMPLING

During the December 2012 quarterly sampling event, 47 water samples (not including QC samples) were collected. During the March 2012 semiannual sampling event, 85 water samples (not including QC samples) were collected. All samples were submitted to the EPA Region 7 laboratory for volatile organic compound analysis (VOC) analysis using Region 7 Method 3230.1F.

Purging and Sampling

Groundwater samples were collected from the monitoring wells using low-flow purging (micro-purging) and sampling methods. The monitoring wells were purged and sampled using a portable bladder pump and dedicated tubing. The purge rate was adjusted as low as possible

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to minimize drawdown and did not exceed 0.5 liters per minute (L/min). The water level in the well was monitored throughout the purging process.

Physical parameters of pH, temperature, specific conductivity, oxidation reduction potential, dissolved oxygen, turbidity, and water levels were recorded every 3 to 5 minutes during the purging process and recorded on sampling forms (Attachment 5). Purging continued until the parameters stabilized as specified in the Work Plan (HGL, 2009).

Groundwater samples were collected directly from the discharge tubing before the flow-through cell, and directly into the appropriate sample container. The pumping rate remained constant during purging. After sampling at each well, the pumps were decontaminated as described in the Work Plan and summarized in Section 2.4. The tubing and other sampling equipment and supplies were stored between sampling events in the nearby W. Highway 6 & Highway 281 Site GET system building.

Copies of the EPA sample collection sheets and the associated chain of custody records for both sampling events are included in Attachment 5.

2.3 QUALITY ASSURANCE/QUALITY CONTROL SAMPLING

In December 2011, 13 samples were collected to fulfill QC requirements (HGL, 2009): 6 duplicates, 3 trip blanks, 3 matrix spike/matrix spike duplicate (MS/MSD) samples, and 1 equipment rinsate blank. Duplicate samples were collected from the following wells:

- MW-3B (duplicate sample 5619-29-FD)
- MW-6A (duplicate sample 5619-2-FD)
- MW-30C (duplicate sample 5619-22-FD)
- MW-47B (duplicate sample 5619-5-FD)
- MW-48B (duplicate sample 5619-38-FD)
- MW-48C (duplicate sample 5619-40-FD)

The six MS/MSD samples were collected from monitoring wells:

- MW-4B (sample 5619-33)
- MW-6D (sample 5619-1)
- MW-30D (sample 5619-19)

The rinsate blank (sample 5619-15) was collected after decontaminating the equipment after sample collection at MW-2A.

In March 2012, 26 samples were collected to fulfill QC requirements (HGL, 2009): 11 duplicates, 7 trip blanks, 6 matrix spike/matrix spike duplicate (MS/MSD) samples, and 2 equipment rinsate blanks. Duplicate samples were collected from the following wells:

- MW-6D (duplicate sample 5678-2-FD)
- MW-7A (duplicate sample 5678-29-FD)
- MW-8A (duplicate sample 5678-5-FD)
- MW-20C (duplicate sample 5678-22-FD)
- MW-48D (duplicate sample 5678-33-FD)

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- MW-51-B (duplicate sample 5678-40-FD)
- MW-12C (duplicate sample 5680-10-FD)
- MW-17C (duplicate sample 5680-24-FD)
- MW-42D (duplicate sample 5680-2-FD)
- MW-45C (duplicate sample 5680-28-FD)
- MW-105D (duplicate sample 5680-17-FD)

The six MS/MSD samples were collected from monitoring wells:

- MW-6A (sample 5678-1)
- MW-7B (sample 5678-28)
- MW-31C (sample 5678-19)
- MW-18D (sample 5680-21)
- MW-41D2 (sample 5680-32)
- MW-106D (sample 5680-4)

Two rinsate blanks were collected. The OU1 rinsate blank (sample 5678-31) was collected after decontaminating the equipment after sample collection at MW-9A. The OU2 rinsate blank (sample 5680-39) was collected after decontaminating the equipment after sample collection at MW-45D.

2.4 EQUIPMENT DECONTAMINATION

Decontamination procedures were conducted in accordance with the Work Plan (HGL, 2009). Portable bladder pumps and other sample equipment that could not be damaged by water were decontaminated after purging and sampling each well. These items were decontaminated by placing them in a wash tub containing potable water and Alconox or low-sudsing non-phosphate detergent. The interior of pumps were flushed for at least 3 minutes and the exteriors (and non-pump equipment) were scrubbed with a bristle brush or similar utensil. Equipment was then rinsed with tap water in a second wash tub followed by a deionized water rinse.

2.5 INVESTIGATION-DERIVED WASTE MANAGEMENT

Purged groundwater and decontamination fluids were managed as liquid investigation-derived waste (IDW). The liquid IDW from both sampling events was treated through the on-site GET system. Used personal protective equipment and expendable sampling supplies were collected in garbage bags and disposed of as municipal solid waste.

3.0 SEMIANNUAL GROUNDWATER RESULTS

Based on the known geology, the aquifer beneath the Site has been divided into aquifer zones as discussed in the RI Report (HGL, 2011). The zones and their descriptions are as follows:

- upper aquifer zone – Zones A/B, extending from the water table to the top of the upper aquitard (approximately 115 to 125 feet below ground surface [bgs]).
- medial aquifer zones – Zone C, extending from the base of the upper aquitard to the top of the lower aquitard (approximately 130 to 155 feet bgs).

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- lower aquifer zone, extending from the base of the lower aquitard to the top of bedrock.
  - upper portion – Zone D (approximately 160 to 200 feet bgs)
  - lower portion – Zone E (approximately 200 to 235 feet bgs)

The discussion of results presented in the following subsections is based on these aquifer zones.

3.1 GROUNDWATER LEVELS AND POTENTIOMETRIC SURFACE

The groundwater level measurements for both sampling events are shown in Table 1 in Attachment 1. Potentiometric maps were not generated for the December 2011 quarterly sampling event because only OU1 wells were gauged; however, as can be seen in Table 1, the groundwater levels are consistent with historic water levels.

Potentiometric maps for the March 2012 water level data were prepared based on static water levels from monitoring wells. The potentiometric surfaces for aquifer Zones A/B, C, and D/E are illustrated on Figures 3, 4, and 5, respectively (Attachment 2). Based on the water level measurements, the potentiometric groundwater contours indicate the general groundwater flow is to the east/southeast, which is similar to the groundwater contours based on water level measurements in the June 2010 baseline sampling event and is consistent with regional groundwater flow.

As Figure 3 illustrates, groundwater flow in the upper aquifer zone (Zones A/B) beneath the site and downgradient is generally to the southeast. However, farther downgradient of the site, groundwater in this zone appears to flow in a more east-southeasterly direction.

The groundwater flow direction in the medial zone (Zone C, Figure 4) and lower aquifer zone (Zone D/E, Figure 5) throughout the study area is consistently to the east-southeast. It should be noted that monitoring of the medial aquifer zone ends at MW-106C approximately 3.2 miles downgradient of the site.

3.2 ANALYTICAL RESULTS

The December 2011 quarterly groundwater sample results are summarized in Table 2 in Attachment 1. The March 2012 semiannual groundwater sample results are summarized in Tables 2 and 3 in Attachment 1. The full analytical results for both sampling events are tabulated in Attachment 4. The laboratory analytical reports are presented in Attachment 6.

As shown in Table 2, VOC concentrations observed during each of the sampling events were consistent. Carbon tetrachloride and trichloroethene (TCE) were the only two VOCs detected at concentrations that exceeded the preliminary remediation goals (PRGs) for the site. The PRGs for both carbon tetrachloride and TCE are the federal drinking water maximum contaminant levels (MCLs) of 5 micrograms per liter (μg/L). TCE exceeded the PRG at one location. At MW-19A in OU1, TCE was reported at 5.8 μg/L in December 2011 and at 5.7 μg/L in March 2012.

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The ranges of carbon tetrachloride detections observed in the three aquifer zones during both sampling events are:

- Aquifer Zone A/B—1.4 μg/L to 2,400 μg/L
- Aquifer Zone C—1.3 μg/L to 120 μg/L
- Aquifer Zone D/E—1.9 μg/L to 530 μg/L

The following discussion focuses on the March 2012 semiannual sampling data because:

- it includes both OU1 and OU2 monitoring wells,
- both the December 2011 and March 2012 data are consistent (with a few minor differences noted below), and
- both the December 2011 and March 2012 data are consistent with historical results.

Figures 6, 7, and 8, illustrate the March 2012 carbon tetrachloride concentrations by aquifer zone. Isoconcentration contours for carbon tetrachloride also are included on the figures. In general, the isoconcentration contours show the carbon tetrachloride plume to be relatively stable compared to the baseline sampling event in June 2010, as detailed in the RI Report (HGL, 2011).

Carbon tetrachloride concentrations were observed at levels exceeding the MCL of 5 μg/L at the following locations during the March 2012 semiannual sampling event:

Aquifer Zone A/B (Figure 6)

- MW-3B
- MW-4A
- MW-4B
- MW-5B
- MW-19A
- MW-30A
- MW-47B
- MW-48B
- MW-49B
- MW-50B
- MW-51B

Aquifer Zone C (Figure 7)

- MW-12C
- MW-13C
- MW-17C
- MW-18C
- MW-105C
- Old Rolls Well

Aquifer Zone D/E (Figure 8)

- MW-18D
- MW-42D
- MW-44D
- MW-46-D1
- MW-46-D2
- MW-105D
- MW-42E

Carbon tetrachloride did exceed the PRG in OU1 at 3 more locations (MW-5A, MW-31A, and MW-47C) in December 2011 than in March 2012. However, each of the three additional exceedances are concentrations just slightly above the MCL. MW-5A and MW-31A are located at the southern edge of the plume in Aquifer Zone A/B (Figure 3) and each has had previous concentrations above the MCL. Likewise, MW-47C is located near the northern edge of the groundwater plume in Aquifer Zone C (Figure 4) and also has had previous detections.

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Trend graphs were generated for carbon tetrachloride and chloroform for five monitoring well locations in OU1. These trend graphs are included as Attachment 3. The dataset for each was compiled from sampling results from previous investigations and sampling events, and extends over the period from June 1994 to March 2012. In general, the trend graphs all illustrate the same downward concentration trend discussed in the RI. At MW-6E, a spike in carbon tetrachloride concentration was observed during the baseline sampling in June 2010, but has been nondetect since that time, as illustrated on trend graph 23.

The analytical laboratory reports for the sampling events are included in Attachment 6 in electronic copy only.

4.0 REFERENCES

HydroGeologic, Inc. (HGL), 2009. Revised Final Work Plan, Remedial Investigation/Feasibility Study, Garvey Elevator Site, Hastings, Nebraska. June.

HGL, 2010. Final Work Plan and Field Sampling Plan Addendum for Remedial Investigation Activities, Garvey Elevator Site, Hastings, Nebraska. March.

HGL, 2011. Final Remedial Investigation Report, Garvey Elevator Superfund Site, Hastings, Nebraska. April.

HGL, 2012. Semiannual Groundwater Sampling Report, Garvey Elevator Superfund Site, Hastings, Nebraska. January.

Terracon, 1994. Phase I Environmental Site Assessment, Garvey Elevators Grain Storage Facility, Highway 6, Hastings, Nebraska. May.

U.S. Environmental Protection Agency (EPA), 2005. Agreement, Garvey Elevators, Inc. and AGP Grain Marketing LLC with U.S. EPA Region 7. Docket No. CERCLA-07-2005-0268. September.

EPA, 2010. Interim Record of Decision, Garvey Elevator Superfund Site Operable Unit 1, Hastings, Nebraska. June.

ATTACHMENTS:
Attachment 1 Tables
Attachment 2 Figures
Attachment 3 Trend Graphs
Attachment 4 Tabulated Analytical Data
Attachment 5 Field Sheets (Electronic)
Attachment 6 Laboratory Analytical Reports (Electronic)

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ATTACHMENT 1

TABLES

Table 1 Monitoring Well Water Levels and Elevations
Table 2 Summary of Analytical Results for OU1
Table 3 Summary of Analytical Results for OU2

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Table 1
Monitoring Well Water Levels and Elevations
Garvey Elevator Site
Hastings, NE

Site	Well ID	State Plane Coordinates		Top of Casing Elevation (ft amsl)	Ground Surface Elevation (ft amsl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Top of Screen Elevation (ft amsl)	Bottom of Screen Elevation (ft amsl)	Depth to Water (ft btoc)								Water Level Elevation (ft amsl)							
		Northing	Easting							Jun-10	Sep-10	Dec-10	Mar-11	Apr-11	Sep-11	Dec-11	Mar-12	Jun-10	Sep-10	Dec-10	Mar-11	Apr-11	Sep-11	Dec-11	Mar-12
OU1	MW-1A	270590.926	2080164.407	1927.08	1925.80	102	117	1823.80	1808.80	111.73	112.66	112.33	111.73	NR	111.83	111.29	110.91	1815.35	1814.42	1814.75	1815.35	NR	1815.25	1815.79	1816.17
OU1	MW-2A	271240.41	2080539.870	1930.22	1927.33	103	118	1824.33	1809.33	115.21	116.11	115.59	115.11	NR	115.03	114.51	114.17	1815.01	1814.11	1814.63	1815.11	NR	1815.19	1815.71	1816.05
OU1	MW-3A	270755.17	2080773.994	1934.27	1930.99	108	123	1822.99	1807.99	121.14	122.17	121.35	120.85	NR	120.70	120.04	119.79	1813.13	1812.10	1812.92	1813.42	NR	1813.57	1814.23	1814.48
OU1	MW-3B	270761.378	2080778.055	1932.75	1931.07	130.6	135.5	1800.47	1797.57	119.69	120.71	120.05	119.82	NR	119.67	118.56	118.51	1813.06	1812.04	1812.70	1812.93	NR	1813.08	1814.19	1814.24
OU1	MW-3D	270763.009	2080754.275	1933.37	1931.46	171	176	1760.46	1755.46	119.53	120.59	119.96	120.10	NR	118.58	118.93	118.52	1813.84	1812.78	1813.41	1813.27	NR	1814.79	1814.44	1814.85
OU1	MW-3E	270744.057	2080767.604	1932.25	1930.99	233.4	238.4	1697.59	1692.59	118.44	119.47	118.86	119.00	NR	118.46	117.87	117.42	1813.81	1812.78	1813.39	1813.25	NR	1813.79	1814.38	1814.83
OU1	MW-4A	270341.995	2080827.075	1931.60	1931.84	108.5	123.5	1823.34	1808.34	118.21	119.34	118.93	118.44	NR	118.50	117.96	117.44	1813.39	1812.26	1812.67	1813.16	NR	1813.10	1813.64	1814.16
OU1	MW-4B	270342.585	2080832.776	1931.38	1931.70	127	132	1804.70	1799.70	118.31	119.31	118.74	118.29	NR	118.40	117.89	117.25	1813.07	1812.07	1812.64	1813.09	NR	1812.98	1813.49	1814.13
OU1	MW-5A	269943.836	2080752.777	1930.26	1930.06	107.5	122.5	1822.56	1807.56	116.87	117.94	117.54	117.03	NR	117.19	116.61	116.09	1813.39	1812.32	1812.72	1813.23	NR	1813.07	1813.65	1814.17
OU1	MW-5B	269947.071	2080745.584	1931.72	1930.12	129	132	1801.12	1798.12	117.97	119.02	118.64	118.13	NR	118.33	117.72	117.18	1813.75	1812.70	1813.08	1813.59	NR	1813.39	1814.00	1814.54
OU1	MW-5D	269930.791	2080740.508	1931.87	1929.85	162	167	1767.85	1762.85	118.16	119.20	118.61	118.36	NR	118.21	117.62	117.10	1813.71	1812.67	1813.26	1813.51	NR	1813.66	1814.25	1814.77
OU1	MW-6A	271237.345	2081216.968	1931.99	1929.48	107.5	122.5	1821.98	1806.98	117.80	118.49	118.19	117.70	NR	117.55	117.06	116.78	1814.19	1813.50	1813.80	1814.29	NR	1814.44	1814.93	1815.21
OU1	MW-6D	271244.17	2081221.205	1931.14	1929.46	163.5	173.5	1765.96	1755.96	117.92	118.95	118.32	118.73	NR	118.01	117.30	116.94	1813.22	1812.19	1812.82	1812.41	NR	1813.13	1813.84	1814.20
OU1	MW-6E	271244.606	2081208.806	1932.13	1929.65	225	235	1704.65	1694.65	118.85	119.89	119.25	119.66	NR	118.96	118.30	117.86	1813.28	1812.24	1812.88	1812.47	NR	1813.17	1813.83	1814.27
OU1	MW-7A	269088.475	2079699.700	1923.22	1920.92	98	113	1822.92	1807.92	108.11	109.20	108.49	107.85	NR	108.18	107.48	106.98	1815.11	1814.02	1814.73	1815.37	NR	1815.04	1815.74	1816.24
OU1	MW-7B	269088.781	2079692.537	1923.84	1920.89	130	135	1790.89	1785.89	108.78	109.85	109.16	108.46	NR	108.87	108.21	107.67	1815.06	1813.99	1814.68	1815.38	NR	1814.97	1815.63	1816.17
OU1	MW-8A	271214.203	2079067.544	1943.22	1940.80	114.5	129.5	1826.30	1811.30	125.82	126.29	126.02	125.71	NR	125.53	125.15	124.76	1817.40	1816.93	1817.20	1817.51	NR	1817.69	1818.07	1818.46
OU1	MW-9A	272193.736	2080628.145	1928.03	1925.40	101.3	116.3	1824.10	1809.10	111.43	111.60	111.42	110.96	NR	110.65	110.44	110.31	1816.60	1816.43	1816.61	1817.07	NR	1817.38	1817.59	1817.72
OU2	MW-10A	272535.399	2081973.782	1923.48	1923.81	101.8	116.8	1822.01	1807.01	108.71	108.81	108.58	108.39	NR	108.20	NR	107.68	1814.77	1814.67	1814.90	1815.09	NR	1815.28	NR	1815.80
OU2	MW-10B	272530.51	2081982.385	1923.35	1923.70	120	125	1803.70	1798.70	109.68	110.37	109.95	110.00	NR	109.63	NR	108.75	1813.67	1812.98	1813.40	1813.35	NR	1813.72	NR	1814.60
OU2	MW-11A	271826.499	2083509.070	1911.84	1912.28	91	106	1821.28	1806.28	98.05	97.89	98.36	98.61	NR	97.55	NR	98.21	1813.79	1813.95	1813.48	1813.23	NR	1814.29	NR	1813.63
OU2	MW-12A	270399.71	2085390.335	1919.65	1917.13	102.4	117.4	1814.73	1799.73	113.05	113.18	112.99	112.82	NR	112.59	NR	112.20	1806.60	1806.47	1806.66	1806.83	NR	1807.06	NR	1807.45
OU2	MW-12C	270400.369	2085379.468	1919.64	1916.68	150	160	1766.68	1756.68	113.89	114.84	114.25	113.87	NR	113.96	NR	112.97	1805.75	1804.80	1805.39	1805.77	NR	1805.68	NR	1806.67
OU2	MW-12D	270399.729	2085403.614	1918.89	1916.98	167	177	1749.98	1739.98	113.11	114.06	113.44	112.09	NR	113.14	NR	112.18	1805.78	1804.83	1805.45	1806.80	NR	1805.75	NR	1806.71
OU1	MW-13C	270368.902	2081015.694	1929.65	1928.74	133	135.5	1795.74	1793.24	118.07	119.06	116.89	117.75	NR	118.58	117.16	117.01	1811.58	1810.59	1812.76	1811.90	NR	1811.07	1812.49	1812.64
OU1	MW-13E	270393.318	2081014.304	1930.43	1928.89	230.8	235.8	1698.09	1693.09	117.30	118.35	117.53	117.62	NR	118.09	116.64	116.25	1813.13	1812.08	1812.90	1812.81	NR	1812.34	1813.79	1814.18
OU2	MW-14A	270968.774	2084137.323	1911.69	1909.56	91	106	1818.56	1803.56	101.82	101.42	101.30	101.23	NR	101.08	NR	100.74	1809.87	1810.27	1810.39	1810.46	NR	1810.61	NR	1810.95
OU2	MW-16A	267054.564	2084286.931	1914.94	1915.45	100	115	1815.45	1800.45	108.60	109.86	108.91	108.22	NR	108.11	NR	107.53	1806.34	1805.08	1806.03	1806.72	NR	1806.83	NR	1807.41
OU2	MW-16C	267048.421	2084285.970	1915.08	1915.47	140.2	155.2	1775.27	1760.27	108.72	110.07	109.18	108.45	NR	108.83	NR	107.73	1806.36	1805.01	1805.90	1806.63	NR	1806.25	NR	1807.35
OU2	MW-17A	268796.556	2082958.916	1903.70	1901.85	84.5	104.5	1817.35	1797.35	94.12	95.38	94.55	93.89	NR	93.90	NR	93.20	1809.58	1808.32	1809.15	1809.81	NR	1809.80	NR	1810.50
OU2	MW-17C	268795.876	2082969.298	1902.91	1901.67	130	140	1771.67	1761.67	93.62	94.83	94.02	93.40	NR	93.73	NR	92.67	1809.29	1808.08	1808.89	1809.51	NR	1809.18	NR	1810.24
OU2	MW-17D	268796.267	2082964.251	1902.93	1901.73	190	192.5	1711.73	1709.23	93.59	94.82	93.96	93.39	NR	93.70	NR	92.64	1809.34	1808.11	1808.97	1809.54	NR	1809.23	NR	1810.29
OU2	MW-18A	268693.818	2085938.384	1912.89	1910.64	97	112	1813.64	1798.64	106.82	107.26	107.33	106.86	NR	106.69	NR	106.60	1806.07	1805.63	1805.56	1806.03	NR	1806.20	NR	1806.29
OU2	MW-18C	268683.36	2085938.592	1913.09	1910.53	135	140	1775.53	1770.53	108.89	110.89	109.31	108.64	NR	109.00	NR	107.94	1804.20	1802.20	1803.78	1804.45	NR	1804.09	NR	1805.15
OU2	MW-18D	268704.658	2085938.735	1913.32	1910.61	188	193	1722.61	1717.61	109.07	110.37	109.49	108.88	NR	109.19	NR	108.15	1804.25	1802.95	1803.83	1804.44	NR	1804.13	NR	1805.17
OU1	MW-19A	270955.133	2081332.850	1929.89	1927.81	127	132	1800.81	1795.81	116.08	117.05	116.49	116.23	NR	116.88	116.16	115.91	1813.11	1812.14	1812.70	1813.66	NR	1813.01	1813.73	1813.98
OU1	MW-19C	270955.133	2081332.850	1929.89	1927.81	152	162	1775.81	1765.81	116.90	117.93	117.02	117.49	NR	117.89	117.01	116.67	1812.30	1811.26	1812.18	1812.41	NR	1812.00	1812.88	1813.22
OU1	MW-20A	270597.445	2081202.233	1929.93	1927.97	127	132	1800.97	1795.97	117.34	118.39	116.64	117.37	NR	118.14	117.00	116.92	1811.87	1810.82	1812.56	1812.56	NR	1811.79	1812.93	1813.01
OU1	MW-20C	270597.445	2081202.233	1929.93	1927.97	152	162	1775.97	1765.97	117.11	119.07	116.86	119.80	NR	121.01	122.26	122.36	1812.10	1810.14	1812.35	1810.13	NR	1808.92	1807.67	1807.57
OU1	MW-20D	270597.445	2081202.233	1929.93	1927.97	182	192	1745.97	1735.97	116.82	118.03	116.58	117.42	NR	117.97	NR	116.74	1812.39	1811.18	1812.62	1812.51	NR	1811.96	NR	1813.19
OU1	MW-20E	270597.445	2081202.233	1929.93	1927.97	222	232	1705.97	1695.97	117.38	118.40	117.12	117.81	NR	118.38	117.63	117.12	1811.83	1810.81	1812.09	1812.12	NR	1811.55	1812.30	1812.81
OU1	MW-30A	270271.723	2081095.430	1930.98	1929.03	127	132	1802.03	1797.03	117.97	119.20	118.13	118.04	NR	119.04	118.20	117.89	1812.32	1811.08	1812.16	1812.95	NR	1811.94	1812.78	1813.09
OU1	MW-30C	270271.723	2081095.430	1930.98	1929.03	152	162	1777.03	1767.03	117.97	118.99	117.70	118.13	NR	118.90	118.11	117.71	1812.31	1811.29	1812.58	1812.85	NR	1812.08	1812.87	1813.27
OU1	MW-30D	270271.723	2081095.430	1930.98	1929.03	182	192	1747.03	1737.03	118.07	119.15	117.87	118.32	NR	119.10	118.31	117.89	1812.22	1811.13	1812.42	1812.66	NR	1811.88	1812.67	1813.09
OU1	MW-30E	270271.723	2081095.430	1930.98	1929.03	222	232	1707.03	1697.03	118.60	119.65	118.48	118.85	NR	119.83	119.11	118.53	1811.68	1810.63	1811.81	1812.13	NR	1811.15	1811.87	1812.45
OU1	MW-31A	269550.764	2080816.035	1932.35	1930.08	127	132	1803.08	1798.08	118.62	119.71	118.53	118.37	NR	119.46	118.68	118.28	1813.00	1811.92	1813.09	1813.97	NR	1812.89	1813.67	1814.07
OU1	MW-31C	269550.764	2080816.035	1932.35	1930.08	152	162	1778.08	1768.08	118.63	119.71	118.48	118.63	NR	119.24	118.55	118.07	1813.00	1811.92	1813.14	1813.72	NR	1813.11	1813.80	1814.28

Table 1
Monitoring Well Water Levels and Elevations
Garvey Elevator Site
Hastings, NE

Site	Well ID	State Plane Coordinates		Top of Casing Elevation (ft amsl)	Ground Surface Elevation (ft amsl)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Top of Screen Elevation (ft amsl)	Bottom of Screen Elevation (ft amsl)	Depth to Water (ft btoc)								Water Level Elevation (ft amsl)							
		Northing	Easting							Jun-10	Sep-10	Dec-10	Mar-11	Apr-11	Sep-11	Dec-11	Mar-12	Jun-10	Sep-10	Dec-10	Mar-11	Apr-11	Sep-11	Dec-11	Mar-12
OU2	MW-41D1	266698.668	2089673.997	1917.19	1915.24	160	170	1755.24	1745.24	119.97	121.49	120.36	119.53	NR	120.22	NR	118.88	1797.22	1795.70	1796.83	1797.66	NR	1796.97	NR	1798.31
OU2	MW-41D2	266707.978	2089674.385	1916.96	1914.99	195	205	1719.99	1709.99	119.63	121.24	120.12	119.29	NR	119.94	NR	118.63	1797.33	1795.72	1796.84	1797.67	NR	1797.02	NR	1798.33
OU2	MW-42D	269167.917	2100135.441	1904.03	1902.07	174	184	1728.07	1718.07	121.11	123.16	121.72	120.85	NR	122.20	NR	120.49	1782.92	1780.87	1782.31	1783.18	NR	1781.83	NR	1783.54
OU2	MW-42E	269162.709	2100143.018	1904.13	1902.23	204	214	1698.23	1698.23	121.14	123.28	121.86	120.97	NR	122.31	NR	120.61	1782.99	1780.85	1782.27	1783.16	NR	1781.82	NR	1783.52
OU2	MW-43D	265395.165	2097605.559	1910.30	1908.35	180	190	1728.35	1718.35	125.96	128.10	126.49	125.56	NR	126.43	NR	124.90	1784.34	1782.20	1783.81	1784.74	NR	1783.87	NR	1785.40
OU2	MW-43E	265404.224	2097604.607	1910.34	1908.45	210	220	1698.45	1688.45	125.86	127.98	126.45	125.49	NR	126.48	NR	124.89	1784.48	1782.36	1783.89	1784.85	NR	1783.86	NR	1785.45
OU2	MW-44D	267552.024	2105258.206	1885.05	1885.30	183	193	1702.30	1692.30	109.77	111.71	110.58	109.74	NR	110.96	NR	109.30	1775.28	1773.34	1774.47	1775.31	NR	1774.09	NR	1775.75
OU2	MW-44E	267540.726	2105259.021	1885.05	1885.30	203	213	1682.30	1672.30	109.86	111.74	110.57	109.76	NR	110.98	NR	109.30	1775.19	1773.31	1774.48	1775.29	NR	1774.07	NR	1775.75
OU2	MW-45C	270056.013	2083476.694	1911.78	1909.82	137	147	1772.82	1762.82	102.82	103.88	103.17	102.86	NR	102.90	NR	101.86	1808.96	1807.90	1808.61	1808.92	NR	1808.88	NR	1809.92
OU2	MW-45D	270046.773	2083475.763	1911.38	1909.46	159	169	1750.46	1740.46	102.39	103.52	102.80	102.53	NR	102.54	NR	101.52	1808.99	1807.86	1808.58	1808.85	NR	1808.84	NR	1809.86
OU2	MW-46D1	269055.175	2089632.928	1912.85	1910.97	156	166	1754.97	1744.97	114.59	116.00	114.92	114.23	NR	114.89	NR	113.64	1798.26	1796.85	1797.93	1798.62	NR	1797.96	NR	1799.21
OU2	MW-46D2	269063.723	2089632.455	1913.03	1911.03	191	201	1720.03	1710.03	114.72	116.19	115.11	114.41	NR	115.11	NR	113.81	1798.31	1796.84	1797.92	1798.62	NR	1797.92	NR	1799.22
OU1	MW-47B	270779.709	2081046.275	1932.09	1929.95	119.3	129.3	1810.39	1800.39	NA	NA	119.59	119.03	118.80	118.93	118.07	117.83	NA	NA	1812.50	1813.06	1813.29	1813.16	1814.02	1814.26
OU1	MW-47C	270779.81	2081045.917	1932.09		139	149	1790.80	1780.80	NA	NA	121.27	NR	118.67	121.62	118.49	119.59	NA	NA	1810.82	NR	1813.42	1810.47	1813.60	1812.50
OU1	MW-47D	270779.646	2081046.033	1932.10		160	170	1769.57	1759.57	NA	NA	119.03	NR	118.60	118.45	118.10	117.74	NA	NA	1813.07	NR	1813.50	1813.65	1814.00	1814.36
OU1	MW-48B	270038.231	2080890.346	1931.05	1928.87	117.32	127.32	1811.75	1801.75	NA	NA	119.04	118.57	117.95	118.85	118.22	117.74	NA	NA	1812.01	1812.48	1813.10	1812.20	1812.83	1813.31
OU1	MW-48C	270037.873	2080890.299	1931.03		139.8	149.8	1788.74	1778.74	NA	NA	118.83	NR	117.54	118.53	117.83	117.37	NA	NA	1812.20	NR	1813.49	1812.50	1813.20	1813.66
OU1	MW-48D	270038.325	2080890.203	1931.05		160	170	1768.74	1758.74	NA	NA	118.00	NR	117.52	117.82	117.07	116.68	NA	NA	1813.05	NR	1813.53	1813.23	1813.98	1814.37
OU1	MW-49B	270644.176	2080860.098	1931.46	1929.34	118.1	128.1	1810.95	1800.95	NA	NA	120.80	120.31	118.53	119.19	118.76	118.46	NA	NA	1810.66	1811.15	1812.93	1812.27	1812.70	1813.00
OU1	MW-49C	270643.931	2080860.262	1931.47		139	149	1790.06	1780.06	NA	NA	119.15	119.11	117.65	119.12	117.69	117.78	NA	NA	1812.32	1812.36	1813.82	1812.35	1813.78	1813.69
OU1	MW-49D	270643.943	2080859.976	1931.46		160.6	170.6	1768.48	1758.48	NA	NA	118.13	118.41	117.63	118.06	117.17	116.80	NA	NA	1813.33	1813.05	1813.83	1813.40	1814.29	1814.66
OU1	MW-50B	270485.861	2080900.112	1931.51	1929.25	116.9	126.9	1812.11	1802.11	NA	NA	118.93	118.48	118.34	118.37	117.80	117.33	NA	NA	1812.58	1813.03	1813.17	1813.14	1813.71	1814.18
OU1	MW-50C	270485.898	2080899.742	1931.54		136.8	146.8	1791.66	1781.66	NA	NA	119.97	119.70	117.93	119.64	118.67	118.68	NA	NA	1811.57	1811.84	1813.61	1811.90	1812.87	1812.86
OU1	MW-50D	270486.057	2080899.932	1931.46		158.1	168.1	1771.12	1761.12	NA	NA	118.38	118.49	117.79	118.23	117.38	117.01	NA	NA	1813.08	1812.97	1813.67	1813.23	1814.08	1814.45
OU1	MW-51B	270305.947	2080987.446	1931.60	1929.43	116.5	126.5	1812.88	1802.88	NA	NA	119.43	119.04	118.61	119.24	118.27	117.68	NA	NA	1812.17	1812.56	1812.99	1812.36	1813.33	1813.92
OU1	MW-51C	270305.696	2080987.514	1931.62		139.5	149.5	1789.97	1779.97	NA	NA	120.21	NR	118.26	119.85	119.02	118.80	NA	NA	1811.41	NR	1813.36	1811.77	1812.60	1812.82
OU1	MW-51D	270305.888	2080987.639	1931.62		160	170	1769.27	1759.27	NA	NA	118.75	NR	118.19	118.60	117.80	117.39	NA	NA	1812.87	NR	1813.43	1813.02	1813.82	1814.23
Hwy 6	MW-104A	271921.238	2088225.729	1908.57	1908.98	100	115	1808.57	1793.57	105.34	105.34	104.85	104.41	NR	104.71	NR	104.29	1803.23	1803.23	1803.72	1804.16	NR	1803.86	NR	1804.28
Hwy 6	MW-104C	271929.471	2088225.413	1908.56	1908.92	160	180	1748.56	1728.56	107.01	107.97	107.39	106.90	NR	107.21	NR	106.19	1801.55	1800.59	1801.17	1801.66	NR	1801.35	NR	1802.37
Hwy 6	MW-104D	271937.379	2088225.393	1908.48	1909.01	192	212	1716.48	1696.48	106.98	107.88	107.31	106.83	NR	107.11	NR	106.11	1801.50	1800.60	1801.17	1801.65	NR	1801.37	NR	1802.37
Hwy 6	MW-105A	270085.306	2089866.113	1919.31	1916.62	108	123	1811.31	1796.31	119.74	120.32	119.73	119.14	NR	119.37	NR	118.96	1799.57	1798.99	1799.58	1800.17	NR	1799.94	NR	1800.35
Hwy 6	MW-105C	270077.035	2089866.331	1919.36	1916.83	159.5	179.5	1759.86	1739.86	121.10	122.44	121.48	120.81	NR	121.45	NR	120.24	1798.26	1796.92	1797.88	1798.55	NR	1797.91	NR	1799.12
Hwy 6	MW-105D	270069.428	2089866.388	1919.22	1916.79	192	212	1727.22	1707.22	121.00	122.27	121.30	120.65	NR	121.28	NR	120.06	1798.22	1796.95	1797.92	1798.57	NR	1797.94	NR	1799.16
Hwy 6	MW-106A	270461.463	2098152.600	1909.22	1906.85	114	129	1795.22	1780.22	120.23	121.24	120.68	119.94	NR	120.65	NR	120.36	1788.99	1787.98	1788.54	1789.28	NR	1788.57	NR	1788.86
Hwy 6	MW-106C	270456.847	2098159.989	1909.22	1906.74	161	181	1748.22	1728.22	122.85	124.86	123.50	122.59	NR	123.91	NR	122.34	1786.37	1784.36	1785.72	1786.63	NR	1785.31	NR	1786.88
Hwy 6	MW-106D	270452.369	2098166.199	1909.20	1906.64	192	212	1717.20	1697.20	122.96	124.90	123.52	122.63	NR	123.93	NR	122.37	1786.24	1784.30	1785.68	1786.57	NR	1785.27	NR	1786.83

Notes:

Water levels at Waterloo Multilevel System monitoring wells (MW-19A/C, MW-20A/C/D/E, MW-30A/C/D/E, and MW-31A/C) were recorded at the GET system programmable logic controller (PLC).

Dedicated transducers in the Waterloo wells were attached to a telemetry system in April 2011, which relays water level measurements to the PLC. The "Top of Casing Elevation" shown for these wells on the table is the top of casing elevation that was measured at the top of the Waterloo system manifold minus 8.5 inches [0.708 ft], which is the distance between the top of the manifold to the outer 4-inch PVC casing.

Hwy 6 wells installed for the West Highway 6 & Highway 281 Site.

amsl - above mean seal level

bgs - below ground surface

btoc - below top of casing

ft - feet

NA - not applicable

NR - not recorded

OU1 - Operable Unit 1; these wells are associated with on-site groundwater

OU2 - Operable Unit 2; these wells are associated with off-site groundwater

Table 2
Summary of Analytical Results for OU1
Garvey Elevator Site
Hastings, NE

Sample Location	Sample Collection Date	EPA Lab ID	Carbon Tetrachloride PRG=5 µg/L	Chloroform PRG=80 µg/L	TCE PRG=5 µg/L
MW-1A	03/16/2012	5678-32	1.0 U	1.0 U	1.0 U
MW-2A	03/13/2012	5678-7	1.0 U	1.0 U	1.0 U
MW-3A	03/14/2012	5678-11	**1.6**	1.0 U	1.0 U
MW-3B	03/13/2012	5678-9	**500**	1.0 U	1.0 U
MW-3D	03/13/2012	5678-8	**1.1**	1.0 U	1.0 U
MW-3E	03/14/2012	5678-10	1.0 U	1.0 U	1.0 U
MW-4A	03/18/2012	5678-45	**44**	1.0 U	1.0 U
MW-4B	03/18/2012	5678-44	**1100**	**2.7**	1.0 U
MW-5A	03/17/2012	5678-34	**4.7**	1.0 U	1.0 U
MW-5B	03/17/2012	5678-33	**43**	1.0 U	1.0 U
MW-5D	03/17/2012	5678-35	1.0 U	1.0 U	1.0 U
MW-6A	03/12/2012	5678-1	**3.0**	1.0 U	1.0 U
MW-6D	03/12/2012	5678-2	1.0 U	1.0 U	1.0 U
	03/12/2012	5678-2-FD	1.0 U	1.0 U	1.0 U
MW-6E	03/13/2012	5678-4	1.0 U	1.0 U	1.0 U
MW-7A	03/16/2012	5678-29	1.0 U	1.0 U	1.0 U
	03/16/2012	5678-29-FD	1.0 U	1.0 U	1.0 U
MW-7B	03/16/2012	5678-28	1.0 U	1.0 U	1.0 U
MW-8A	03/13/2012	5678-5	1.0 U	1.0 U	1.0 U
	03/13/2012	5678-5-FD	1.0 U	1.0 U	1.0 U
MW-9A	03/16/2012	5678-27	1.0 U	1.0 U	1.0 U
MW-13C	03/18/2012	5678-46	**86**	1.0 U	1.0 U
MW-13E	03/18/2012	5678-47	1.0 U	1.0 U	1.0 U
MW-19A	03/16/2012	5678-24	**78**	**5.3**	**5.7**
MW-19C	03/16/2012	5678-25	1.0 U	1.0 U	1.0 U
MW-20A	03/16/2012	5678-26	**1.4**	**1.8**	1.0 U
MW-20C	03/15/2012	5678-22	1.0 U	1.0 U	1.0 U
	03/15/2012	5678-22-FD	1.0 U	1.0 U	1.0 U
MW-20D	03/15/2012	5678-21	1.0 U	1.0 U	1.0 U
MW-20E	03/15/2012	5678-20	1.0 U	1.0 U	1.0 U
MW-30A	03/14/2012	5678-15	**200**	**5.8**	1.0 U
MW-30C	03/14/2012	5678-16	**1.3**	**1.5**	1.0 U
MW-30D	03/14/2012	5678-17	1.0 U	**2.2**	1.0 U
MW-30E	03/14/2012	5678-14	1.0 U	**1.8**	1.0 U
MW-31A	03/14/2012	5678-18	**1.6**	**11**	1.0 U
MW-31C	03/15/2012	5678-19	1.0 U	1.0 U	1.0 U
MW-47B	03/18/2012	5678-48	**59**	**6.0**	1.0 U
MW-47C	03/18/2012	5678-49	**2.7**	1.0 U	1.0 U
MW-47D	03/18/2012	5678-50	1.0 U	1.0 U	1.0 U

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Table 2
Summary of Analytical Results for OU1
Garvey Elevator Site
Hastings, NE

Sample Location	Sample Collection Date	EPA Lab ID	Carbon Tetrachloride PRG=5 µg/L	Chloroform PRG=80 µg/L	TCE PRG=5 µg/L
MW-48B	03/17/2012	5678-36	**690**	**1.5**	1.0 U
MW-48C	03/17/2012	5678-37	1.0 U	1.0 U	1.0 U
MW-48D	03/17/2012	5678-38	1.0 U	1.0 U	1.0 U
	03/17/2012	5678-38-FD	1.0 U	1.0 U	1.0 U
MW-49B	03/19/2012	5678-57	**55**	1.0 U	1.0 U
MW-49C	03/19/2012	5678-55	1.0 U	1.0 U	1.0 U
MW-49D	03/19/2012	5678-56	1.0 U	1.0 U	1.0 U
MW-50B	03/18/2012	5678-52	**340**	1.0 U	1.0 U
MW-50C	03/18/2012	5678-53	**1.6**	1.0 U	1.0 U
MW-50D	03/18/2012	5678-54	1.0 U	1.0 U	1.0 U
MW-51B	03/18/2012	5678-40	**2,200**	**14**	1.0 U
	03/18/2012	5678-40-FD	**2,400**	**14**	1.0 U
MW-51C	03/18/2012	5678-42	1.0 U	1.0 U	1.0 U
MW-51C	03/18/2012	5678-42	1.0 U	1.0 U	1.0 U
MW-51D	03/18/2012	5678-43	**3.4**	1.0 U	1.0 U

Notes:

Bolded results indicate a detection.

Shaded results indicate that the reported result is greater than the PRG.

All results reported in µg/L.

ID - identification

PRG - preliminary remediation goal

TCE - trichloroethene

µg/L - micrograms per liter

U - The analyte was not detected at or above the reporting limit.

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Table 3
Summary of Analytical Results for OU2
Garvey Elevator Site
Hastings, NE

Sample Location	Sample Collection Date	EPA Lab ID	Carbon Tetrachloride	Chloroform	TCE
			PRG=5 µg/L	PRG=80 µg/L	PRG=5 µg/L
MW-10A	03/18/2012	5680-42	1.0 U	1.0 U	1.0 U
MW-10B	03/18/2012	5680-41	1.0 U	1.0 U	1.0 U
MW-11A	03/14/2012	5680-19	1.0 U	1.0 U	1.0 U
MW-12A	03/14/2012	5680-14	1.0 U	1.0 U	1.0 U
MW-12C	03/14/2012	5680-10	**8.5**	1.0 U	1.0 U
	03/14/2012	5680-10-FD	**8.8**	1.0 U	1.0 U
MW-12D	03/14/2012	5680-13	1.0 U	1.0 U	1.0 U
MW-14A	03/13/2012	5680-12	1.0 U	1.0 U	1.0 U
MW-16A	03/17/2012	5680-36	1.0 U	1.0 U	1.0 U
MW-16C	03/17/2012	5680-35	1.0 U	1.0 U	1.0 U
MW-17A	03/17/2012	5680-37	1.0 U	1.0 U	1.0 U
MW-17C	03/17/2012	5680-24	**28**	1.0 U	1.0 U
	03/17/2012	5680-24-FD	**29**	1.0 U	1.0 U
MW-17D	03/17/2012	5680-38	1.0 U	1.0 U	1.0 U
MW-18A	03/15/2012	5680-20	1.0 U	1.0 U	1.0 U
MW-18C	03/15/2012	5680-22	**8.7**	1.0 U	1.0 U
MW-18D	03/15/2012	5680-21	**28**	1.0 U	1.0 U
MW-41D1	03/16/2012	5680-31	1.0 U	1.0 U	1.0 U
MW-41D2	03/16/2012	5680-32	1.0 U	1.0 U	1.0 U
MW-42D	03/12/2012	5680-2	**38**	1.0 U	1.0 U
	03/12/2012	5680-2-FD	**39**	1.0 U	1.0 U
MW-42E	03/12/2012	5680-1	**54**	1.0 U	1.0 U
MW-43D	03/14/2012	5680-16	1.0 U	1.0 U	1.0 U
MW-43E	03/14/2012	5680-15	**1.9**	1.0 U	1.0 U
MW-44D	03/15/2012	5680-23	**19**	1.0 U	1.0 U
MW-44E	03/15/2012	5680-26	1.0 U	1.0 U	1.0 U
MW-45C	03/17/2012	5680-28	1.0 U	1.0 U	1.0 U
	03/17/2012	5680-28-FD	1.0 U	1.0 U	1.0 U
MW-45D	03/18/2012	5680-39	1.0 U	1.0 U	1.0 U
MW-46D1	03/16/2012	5680-34	**530**	**2.5**	1.0 U
MW-46D2	03/16/2012	5680-33	**280**	**1.4**	1.0 U
MW-104A	03/13/2012	5680-9	1.0 U	1.0 U	1.0 U
MW-104C	03/13/2012	5680-8	1.0 U	1.0 U	1.0 U
MW-104D	03/13/2012	5680-7	1.0 U	1.0 U	1.0 U
MW-105A	03/16/2012	5680-30	1.0 U	1.0 U	1.0 U
MW-105C	03/16/2012	5680-27	**120**	**1.1**	1.0 U
MW-105D	03/16/2012	5680-17	**55**	1.0 U	1.0 U
	03/16/2012	5680-17-FD	**57**	1.0 U	1.0 U

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Table 3
Summary of Analytical Results for OU2
Garvey Elevator Site
Hastings, NE

Sample Location	Sample Collection Date	EPA Lab ID	Carbon Tetrachloride	Chloroform	TCE
			PRG=5 µg/L	PRG=80 µg/L	PRG=5 µg/L
MW-106A	03/13/2012	5680-6	1.0 U	1.0 U	1.0 U
MW-106C	03/13/2012	5680-5	1.0 U	1.0 U	1.0 U
MW-106D	03/13/2012	5680-4	1.0 U	1.0 U	1.0 U
Rolls Old	03/14/2012	5678-12	**20**	1.0 U	1.0 U
Rolls New	03/14/2012	5678-13	1.0 U	1.0 U	1.0 U

Notes:

Bolded results indicate a detection.

Shaded results indicate that the reported result is greater than the PRG.

All results reported in µg/L.

ID - identification

PRG - preliminary remediation goal

TCE - trichloroethene

µg/L - micrograms per liter

U - The analyte was not detected at or above the reporting limit.

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ATTACHMENT 2

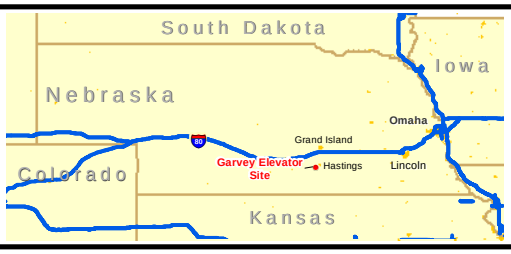
FIGURES

Figure 1 Site Location Map
Figure 2 Monitoring Well Location Map
Figure 3 Potentiometric Surface - Zone A/B
Figure 4 Potentiometric Surface - Zone C
Figure 5 Potentiometric Surface - Zone D/E
Figure 6 Carbon Tetrachloride in the Upper Aquifer Zone A/B
Figure 7 Carbon Tetrachloride in the Medial Aquifer Zone C
Figure 8 Carbon Tetrachloride in the Lower Aquifer Zone D/E

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Revised: 12/29/11 ST
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Nebraska DNR

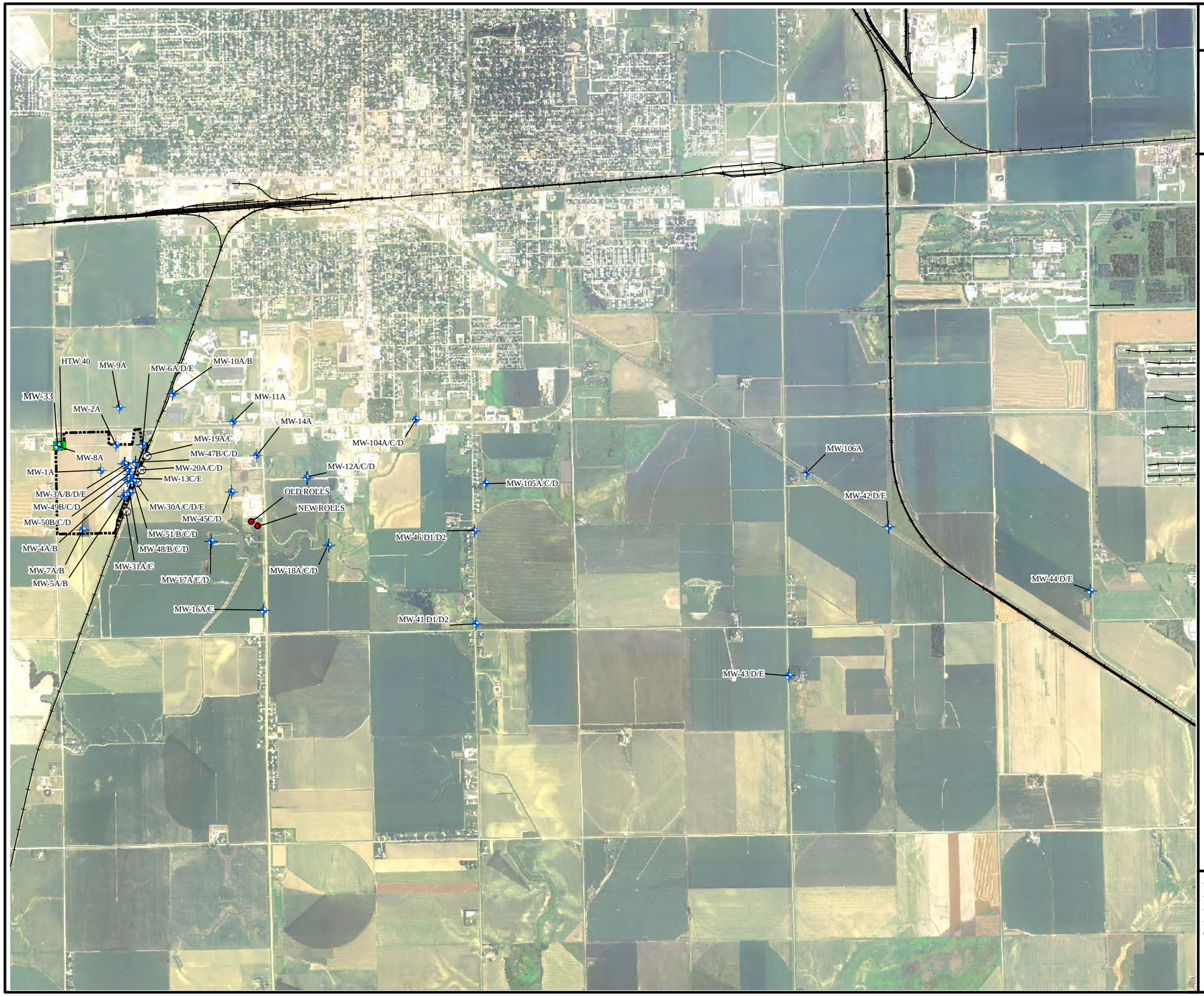
HGL HydroGeoLogic, Inc

Figure 1
Site Location Map
Garvey Elevator
Superfund Site
Hastings, NE

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Figure 2
Monitoring Well Location Map



Legend

- Garvey Property Boundary
- Railroad
- Monitoring Well Location
- Multilevel Well
- Hydraulic Test Well
- Domestic / Irrigation Water Wells

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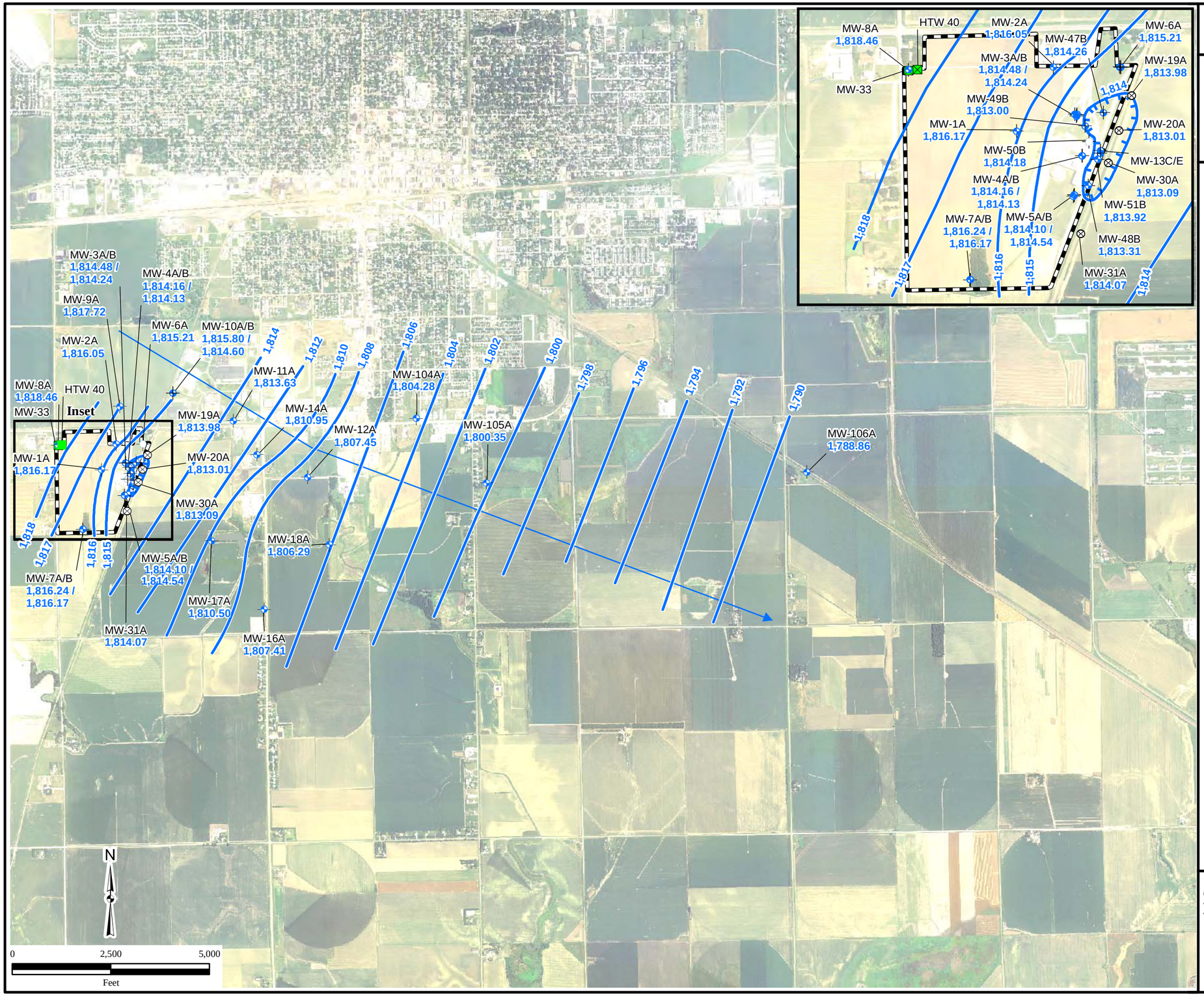
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Revised: 01/05/12 ST
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HGL HydroGeoLogic, Inc

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Figure 3
Potentiometric Surface - Zone A/B
September 2011



Legend

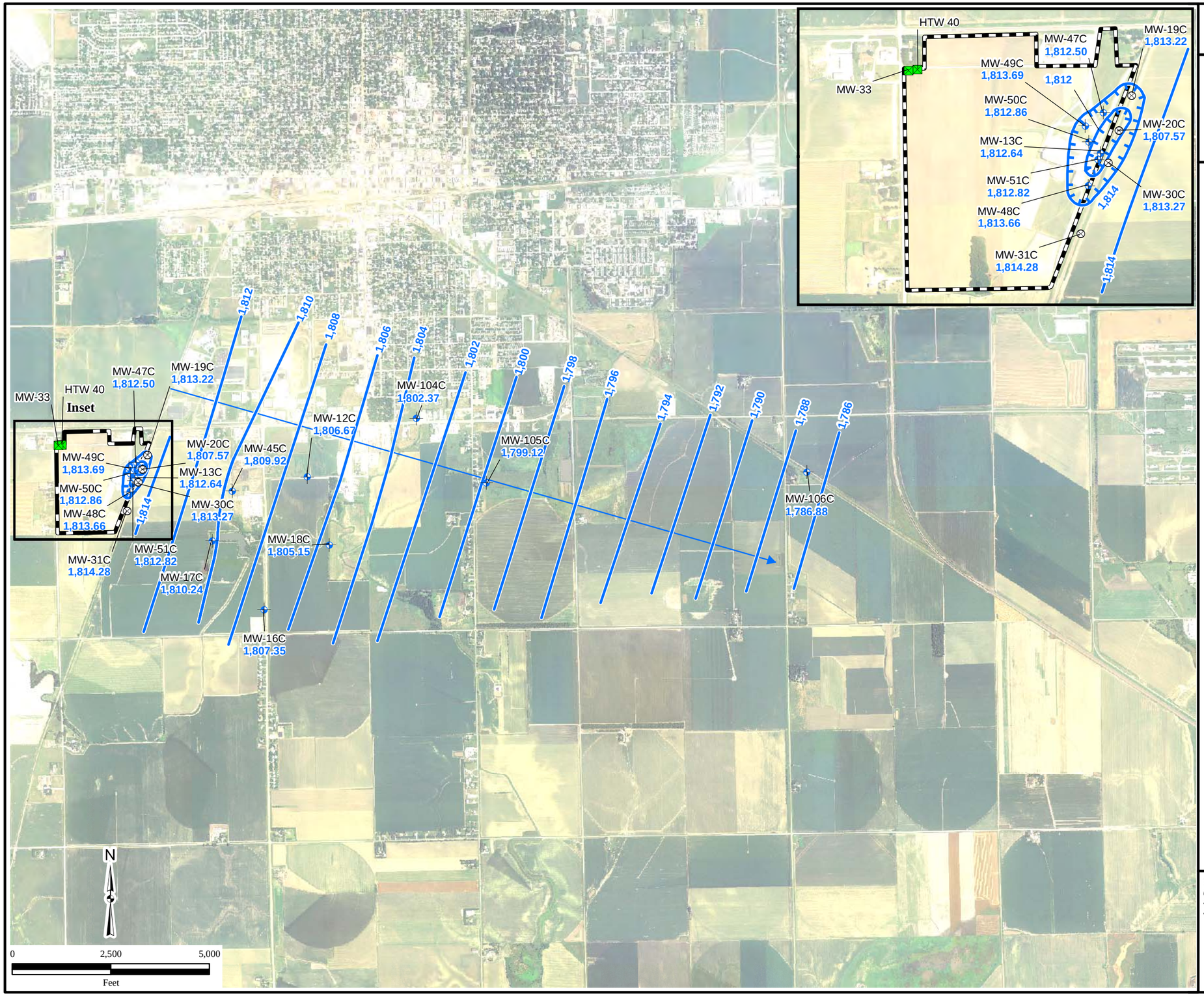
- Monitoring Well
- Multilevel Well
- Hydraulic Conductivity Well
- Garvey Property Boundary
- 1,790 — Groundwater Contour (feet above mean sea level)
- General Groundwater Flow Direction

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Source: ENSR GDB 2008, DNR

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Figure 4
Potentiometric Surface - Zone C
September 2011



Legend

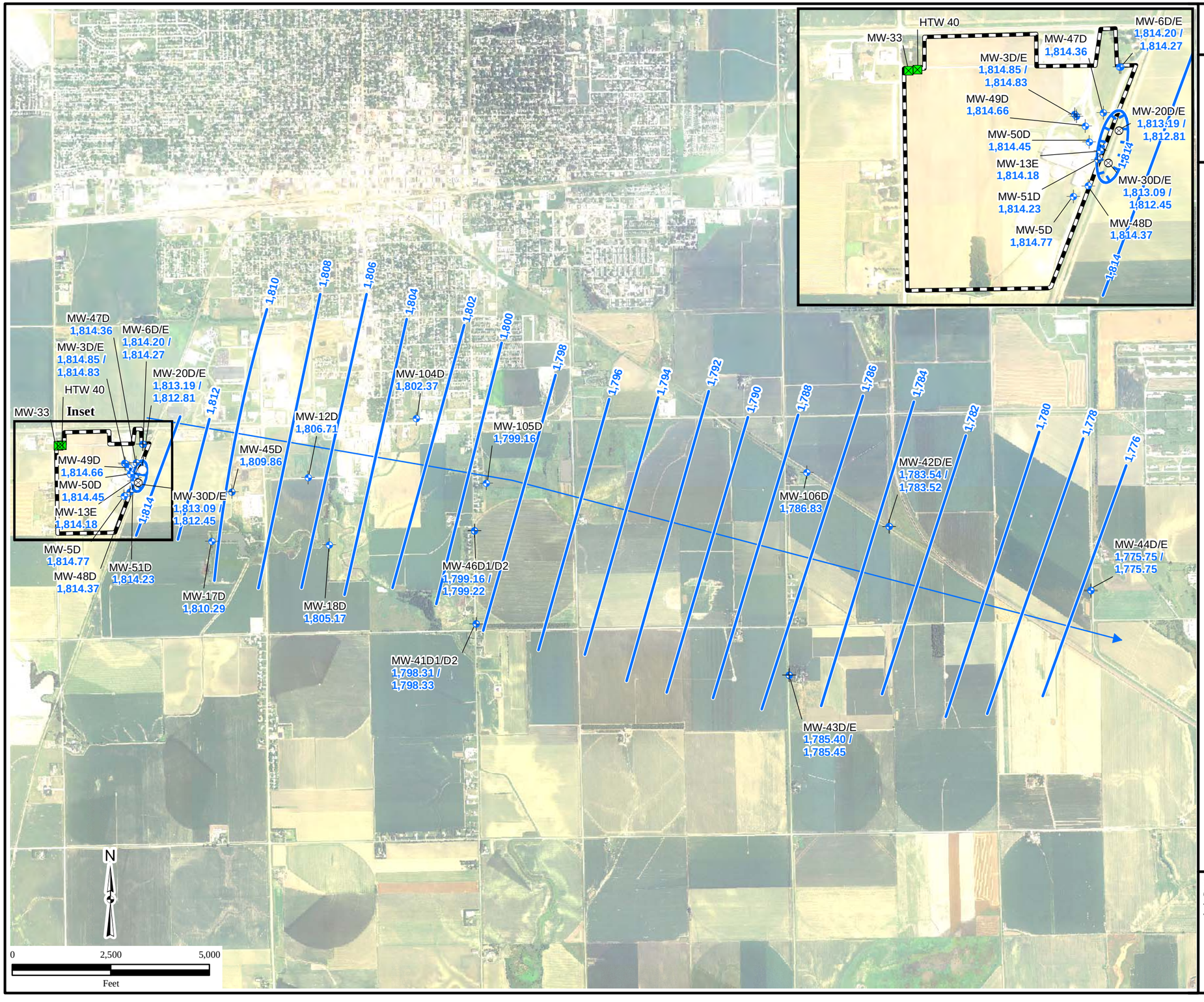
- Monitoring Well
- Multilevel Well
- Hydraulic Conductivity Well
- Garvey Property Boundary
- 1,790 — Groundwater Contour (feet above mean sea level)
- General Groundwater Flow Direction

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Source: ENSR GDB 2008, DNR

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Figure 5
Potentiometric Surface - Zone D/E
September 2011



Legend

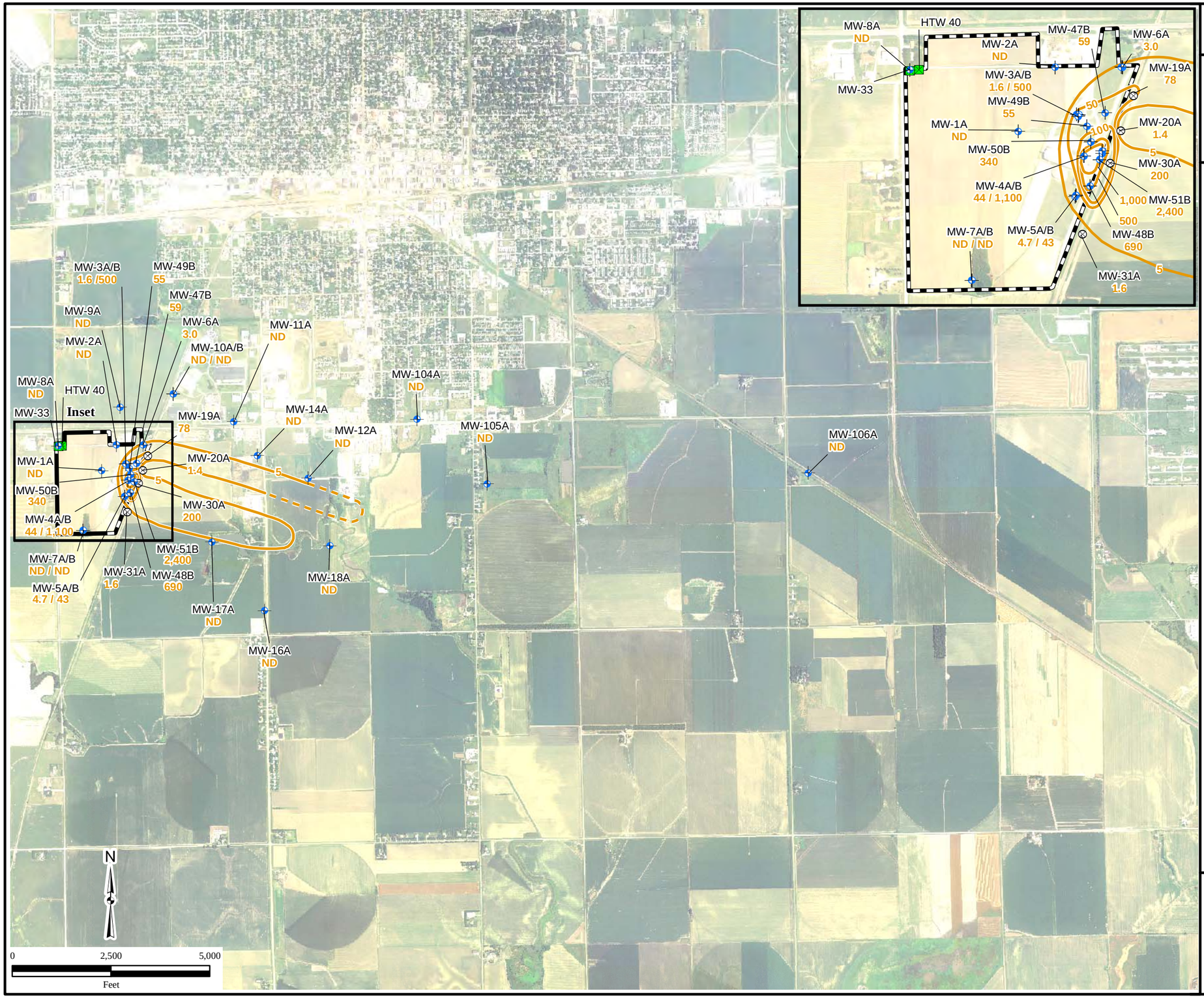
- Monitoring Well
- Multilevel Well
- Hydraulic Conductivity Well
- Garvey Property Boundary
- 1,796 — Groundwater Contour (feet above mean sea level)
- General Groundwater Flow Direction

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Source: ENSR GDB 2008, DNR

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Figure 6
Carbon Tetrachloride in the Upper Aquifer Zone A/B March 2012 Sampling



Legend

- Monitoring Well
- Multilevel Well
- Hydraulic Conductivity Well
- Garvey Property Boundary
- 5 — Carbon Tetrachloride Isoconcentration Contour (µg/L) (dashed lines are estimated)

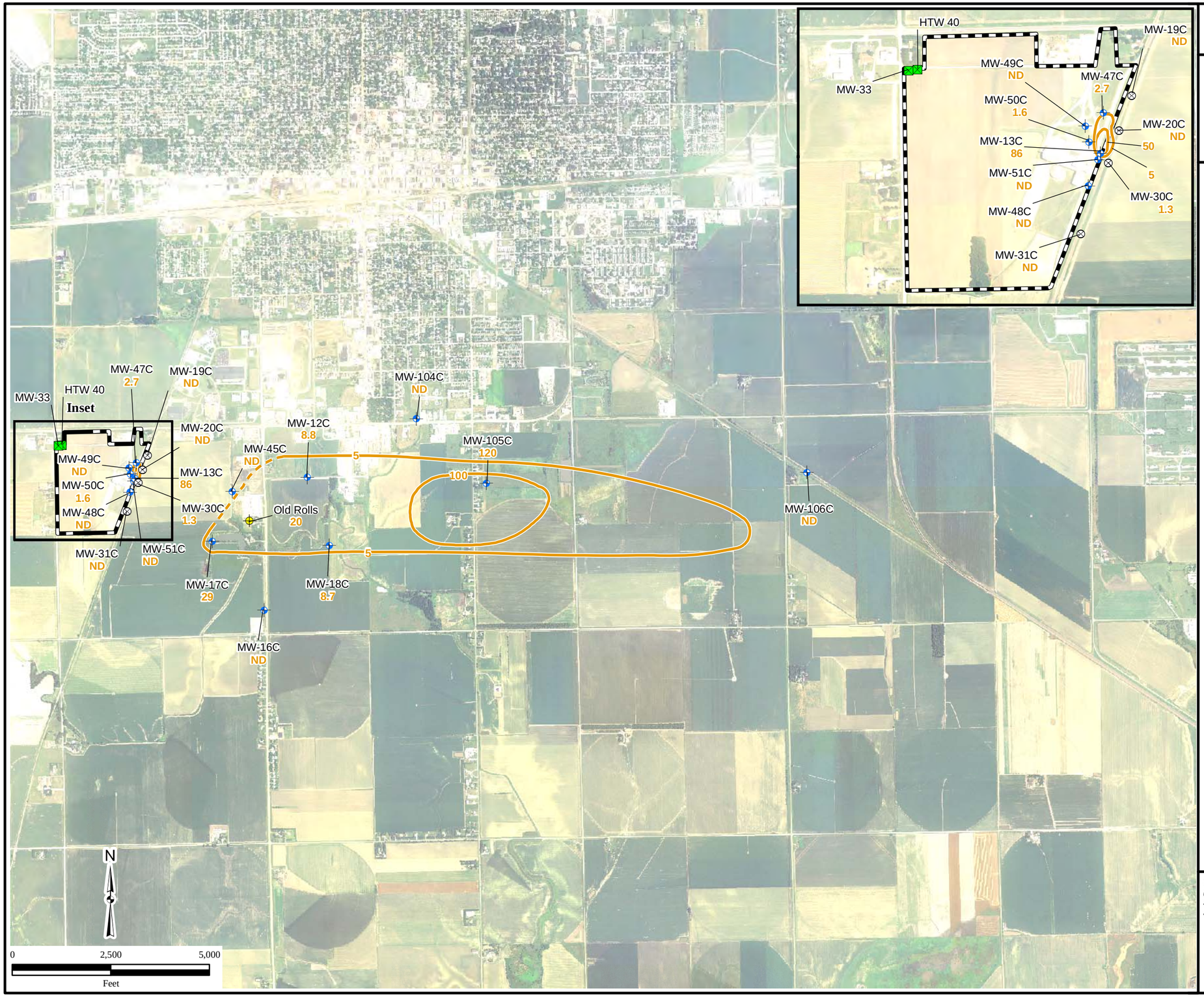
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Source: ENSR GDB 2008, DNR

HydroGeoLogic, Inc

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Figure 7
Carbon Tetrachloride in the Medial Aquifer Zone C
March 2012 Sampling



Legend

- Monitoring Well
- Multilevel Well
- Hydraulic Conductivity Well
- Garvey Property Boundary
- 5 — Carbon Tetrachloride Concentration Contour (µg/L) (dashed lines are estimated)

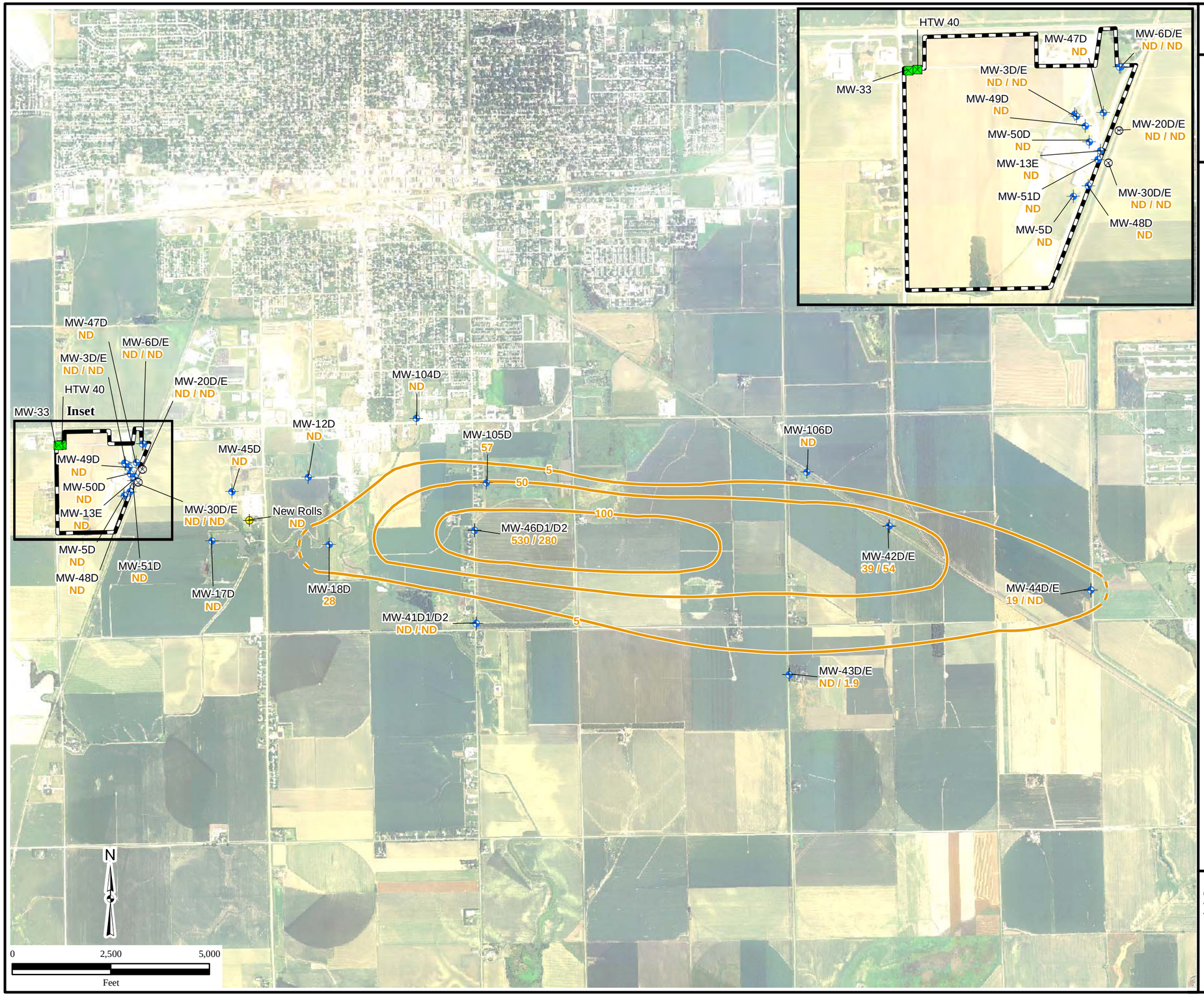
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Source: ENSR GDB 2008, DNR

HGL HydroGeoLogic, Inc

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Figure 8
Carbon Tetrachloride in the Lower Aquifer Zone D/E
March 2012 Sampling



Legend

- Monitoring Well
- Multilevel Well
- Hydraulic Conductivity Well
- Garvey Property Boundary
- 5 — Carbon Tetrachloride Concentration Contour (µg/L) (dashed lines are estimated)

Notes:
ND=nondetect

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Source: ENSR GDB 2008, DNR

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ATTACHMENT 3

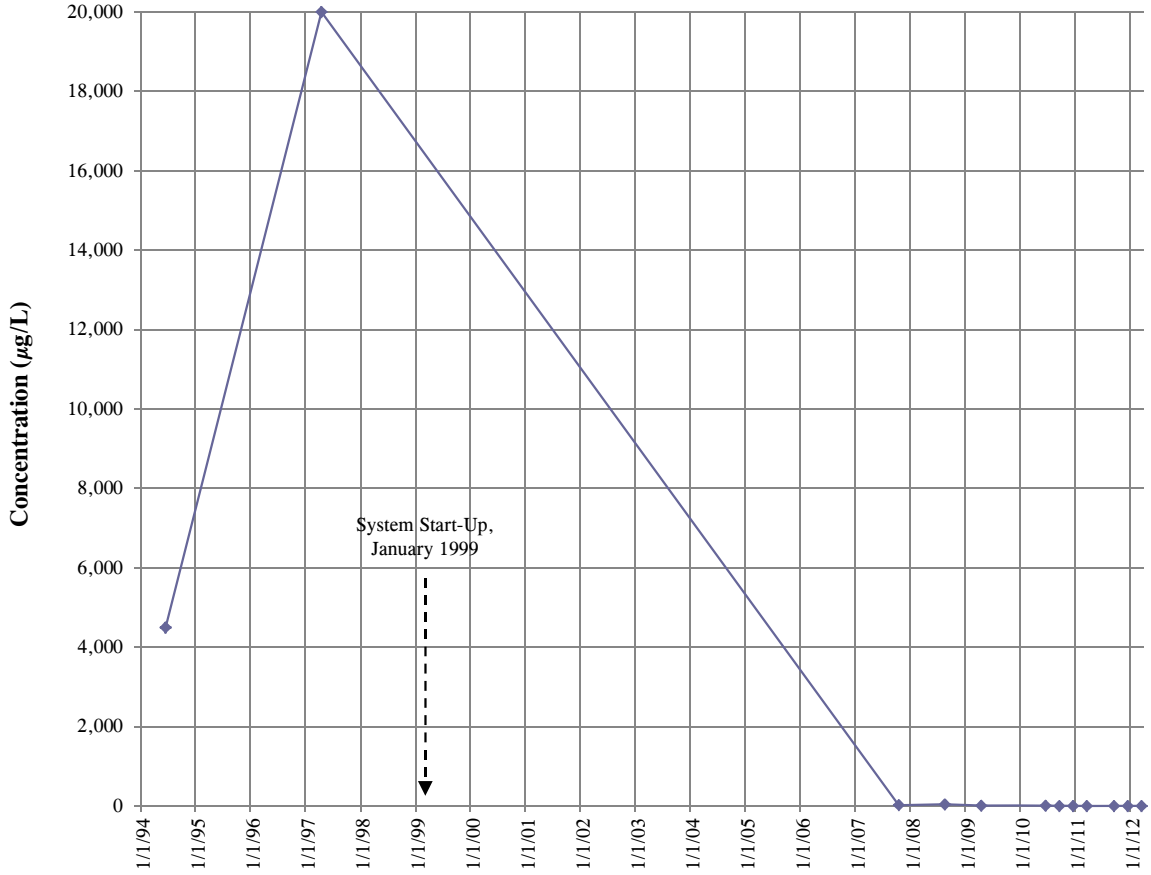
TREND GRAPHS

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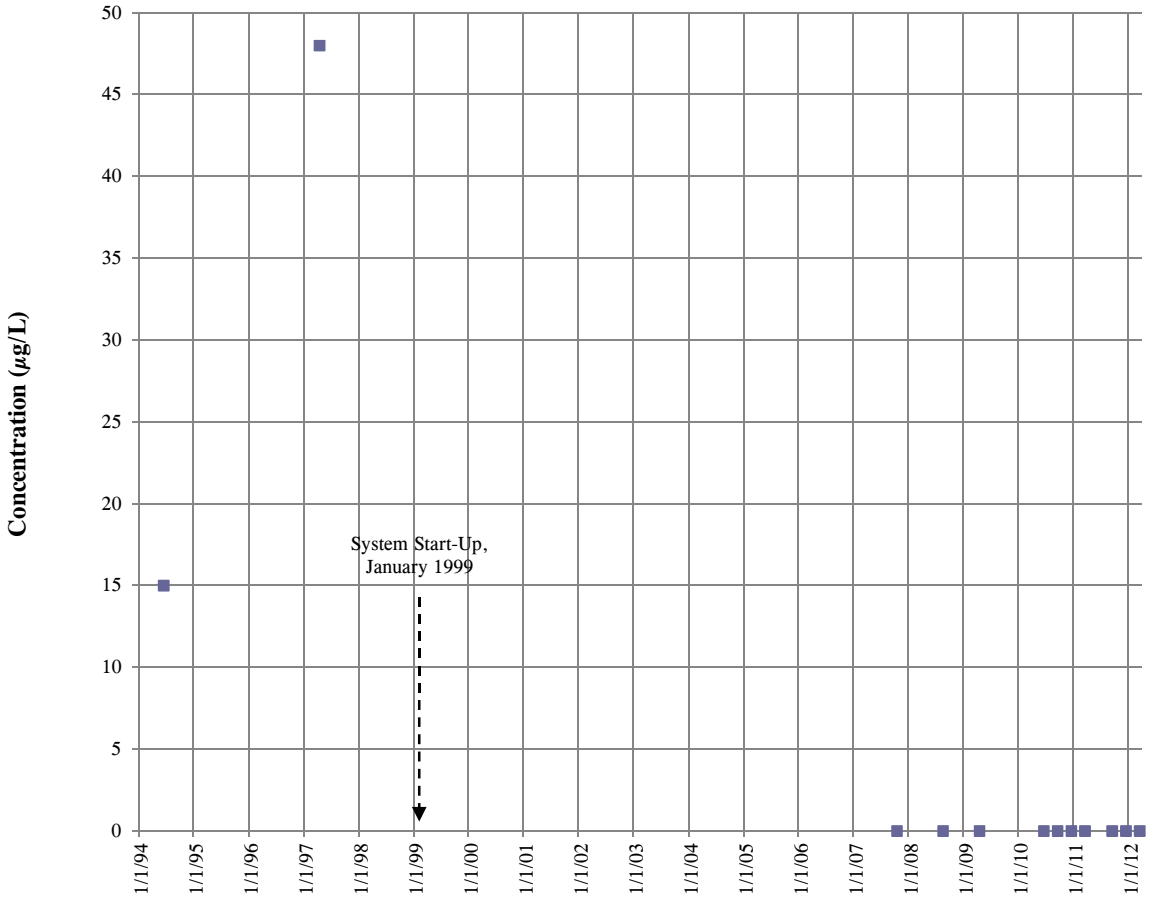
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Trend Graph 1 - MW-3A Carbon Tetrachloride



Carbon Tetrachloride	
06/21/94	4,500
04/29/97	20,000
10/10/07	23
08/15/08	41
04/22/09	14
06/19/10	7.4
09/23/10	3.9
12/18/10	1.6
03/27/11	1.1
09/30/11	1.0 UJ
12/17/11	1.4
03/14/12	1.6

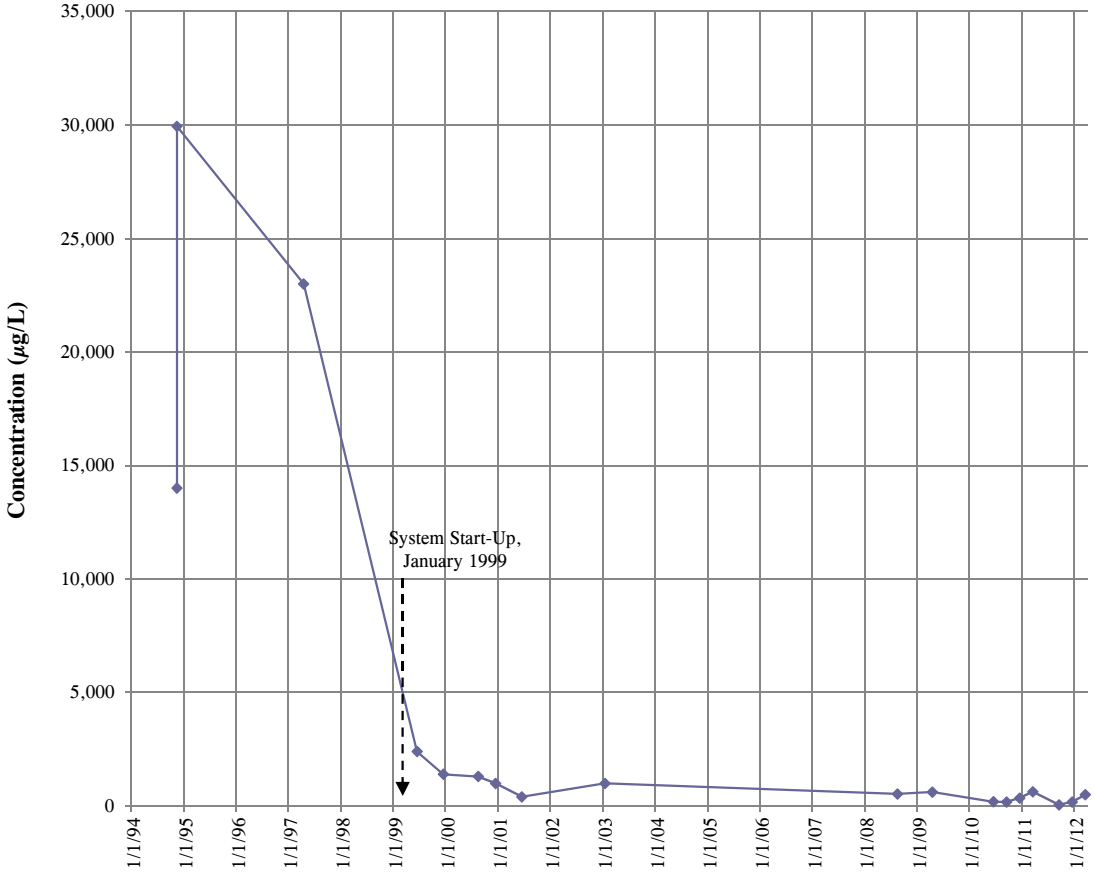
Trend Graph 2 - MW-3A Chloroform



Chloroform	
06/21/94	15
04/29/97	48
10/10/07	0.50 U
08/15/08	5 U
04/22/09	5.0 U
06/19/10	0.50 U
09/23/10	1.0 U
12/18/10	0.50 U
03/27/11	0.5 U
09/30/11	1.0 U
12/17/11	1.0 U
03/14/12	1.0 U

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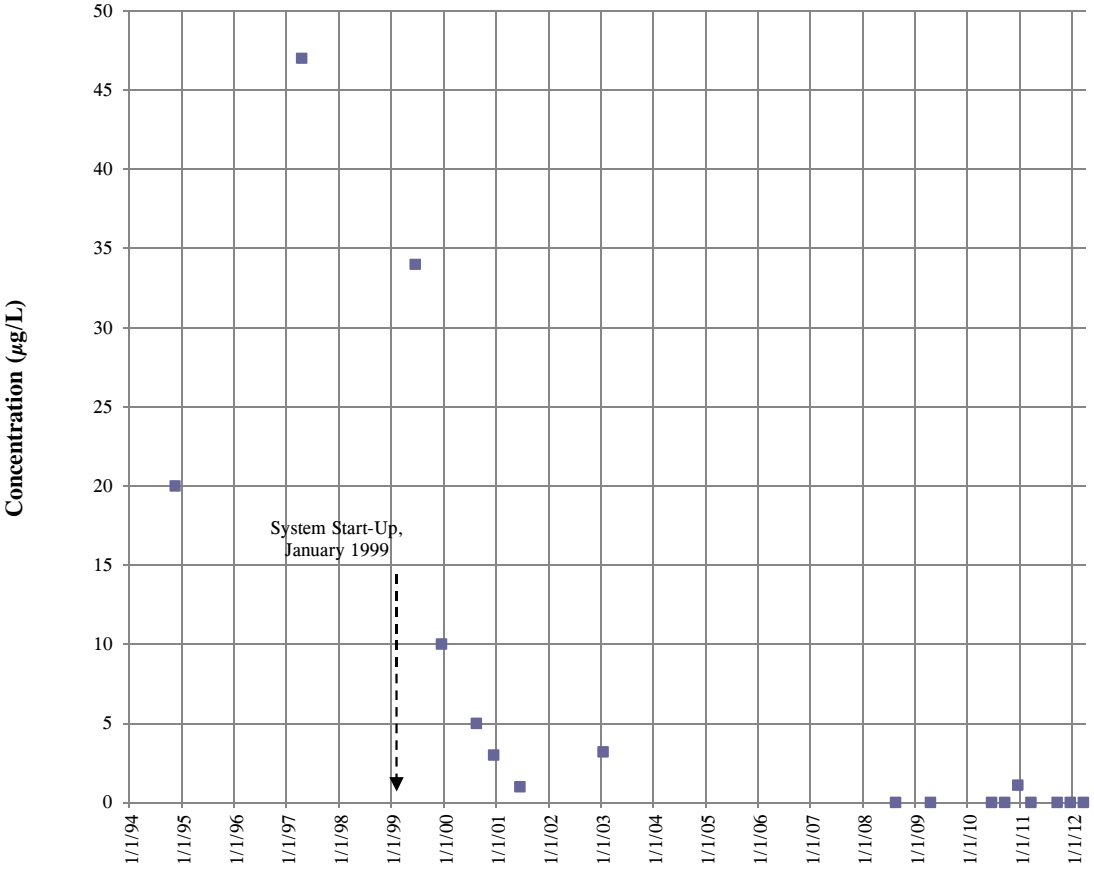
Trend Graph 3 - MW-3B Carbon Tetrachloride



Carbon Tetrachloride

11/18/94	14,000
11/30/94	29,943
4/29/97	23,000
6/23/99	2,400
12/16/99	1,400
8/12/00	1,300
12/19/00	1,000
6/4/01	410
1/23/03	1,000
8/15/08	530
4/22/09	620
6/19/10	190
9/23/10	180
9/23/10	180
12/18/10	350
3/27/11	630
9/30/11	53
12/15/11	180
12/15/11	170
3/13/12	500

Trend Graph 4 - MW-3B Chloroform

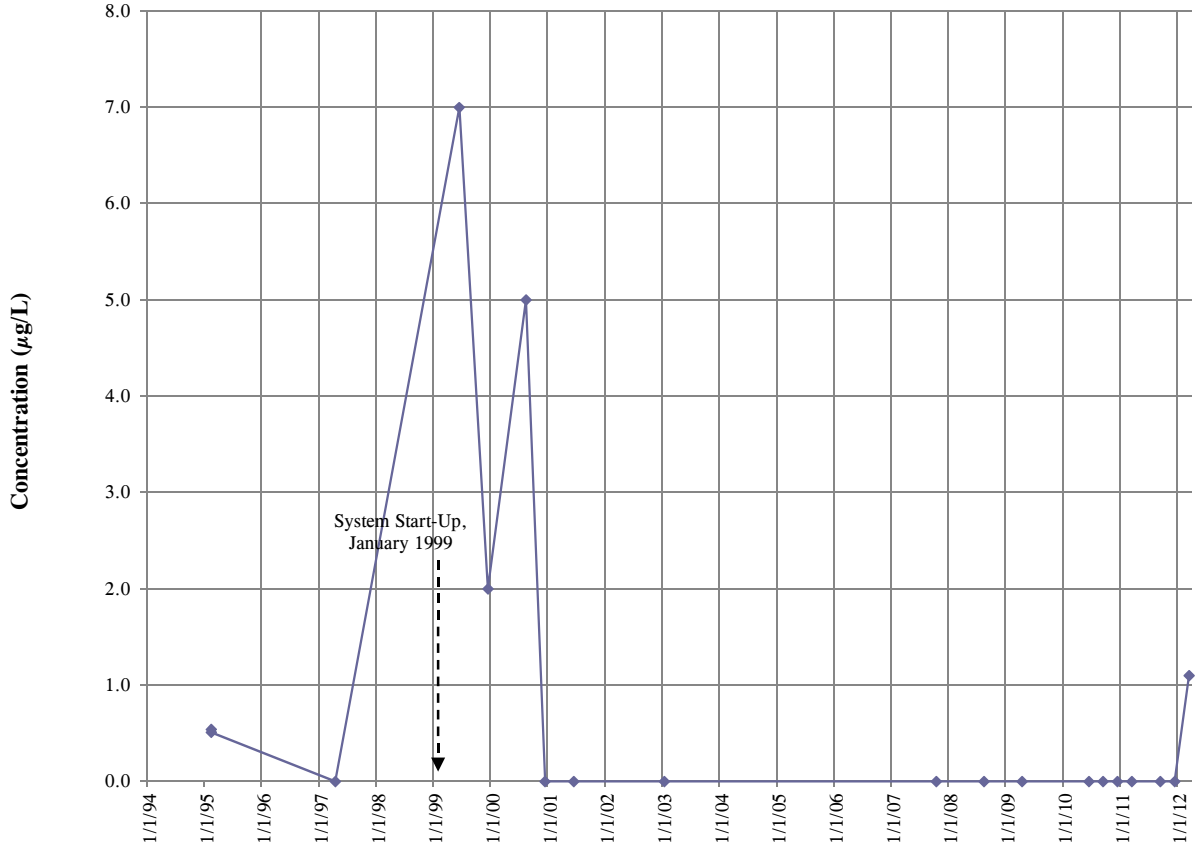


Chloroform

11/18/94	20
11/30/94	NA
4/29/97	47
6/23/99	34
12/16/99	10
8/12/00	5
12/19/00	3
6/4/01	1
1/23/03	3.2
8/15/08	25 U
4/22/09	5.0 U
6/19/10	1.0 U
9/23/10	1.0 UJ
9/23/10	1.0 UJ
12/18/10	1.1
3/27/11	2 U
9/30/11	1.0 U
12/15/11	1.0 U
12/15/11	1.0 U
3/13/12	1.0 U

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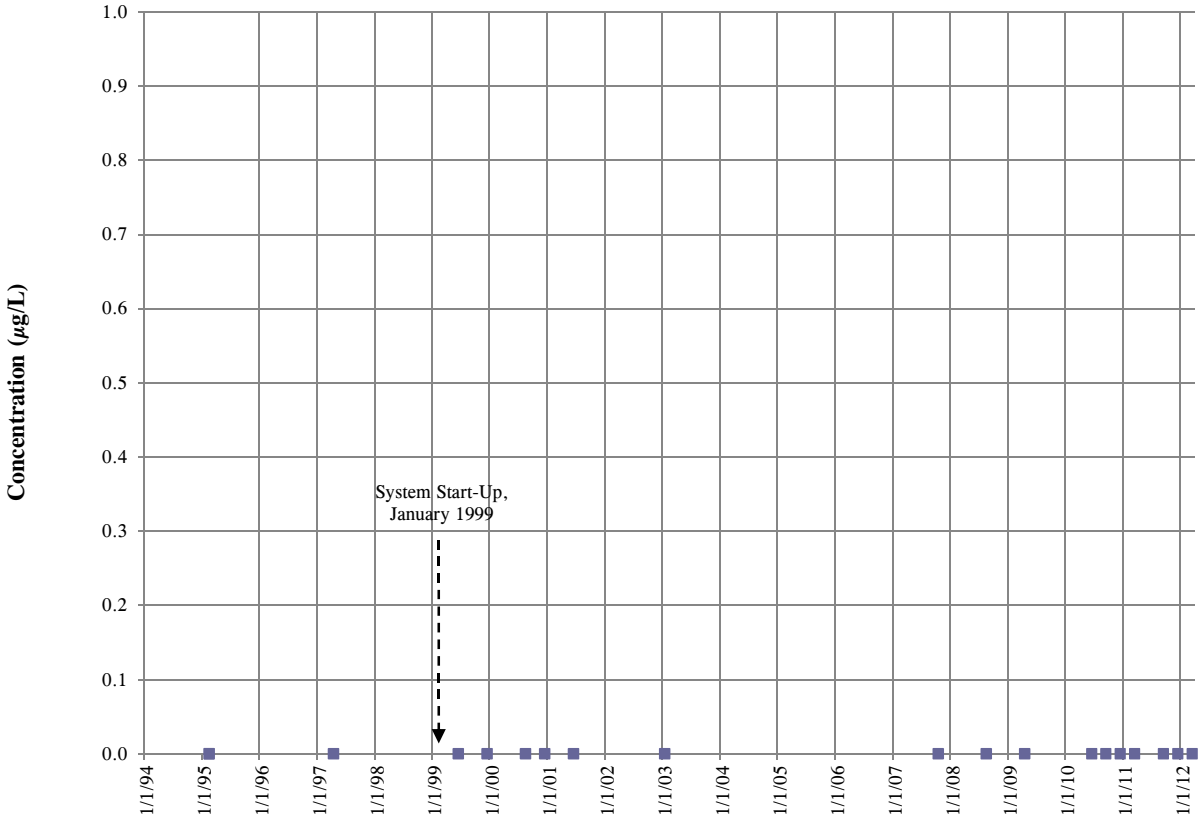
Trend Graph 5 - MW-3D Carbon Tetrachloride



Carbon Tetrachloride

2/14/95	0.54
2/14/95	0.51
4/29/97	ND
6/23/99	7
12/15/99	2
8/12/00	5
12/19/00	ND
6/4/01	ND
1/23/03	ND
10/10/07	0.5 U
8/15/08	5 U
4/22/09	1.0 U
6/19/10	0.50 U
9/23/10	1.0 U
12/18/10	0.50 U
3/27/11	0.5 U
9/30/11	1.0 UJ
12/17/11	1.0 U
3/13/12	1.1

Trend Graph 6 - MW-3D Chloroform

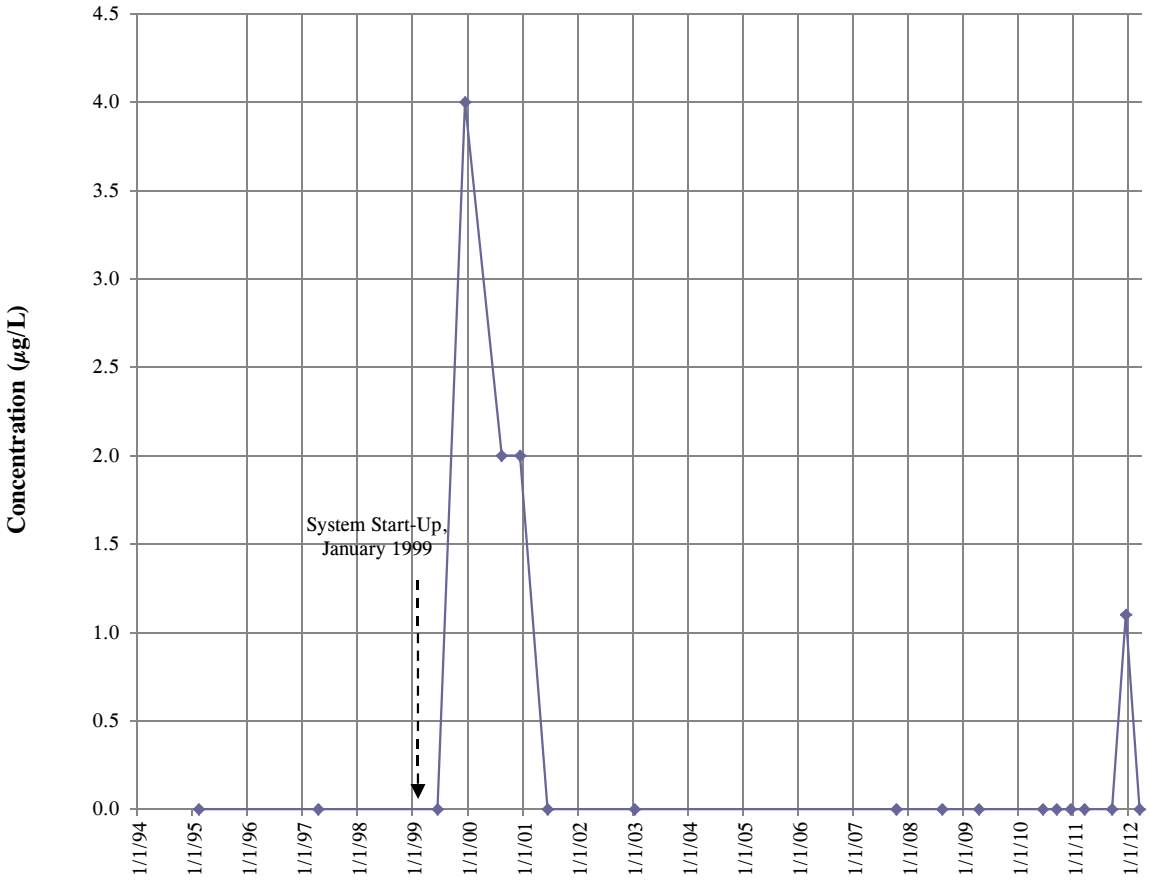


Chloroform

2/14/95	NA
2/14/95	NA
4/29/97	ND
6/23/99	ND
12/15/99	ND
8/12/00	ND
12/19/00	ND
6/4/01	ND
1/23/03	ND
10/10/07	0.5 U
8/15/08	5 U
4/22/09	1.0 UJ
6/19/10	0.50 U
9/23/10	1.0 U
12/18/10	0.50 U
3/27/11	0.5 U
9/30/11	1.0 U
12/17/11	1.0 U
3/13/12	1.0 UJ

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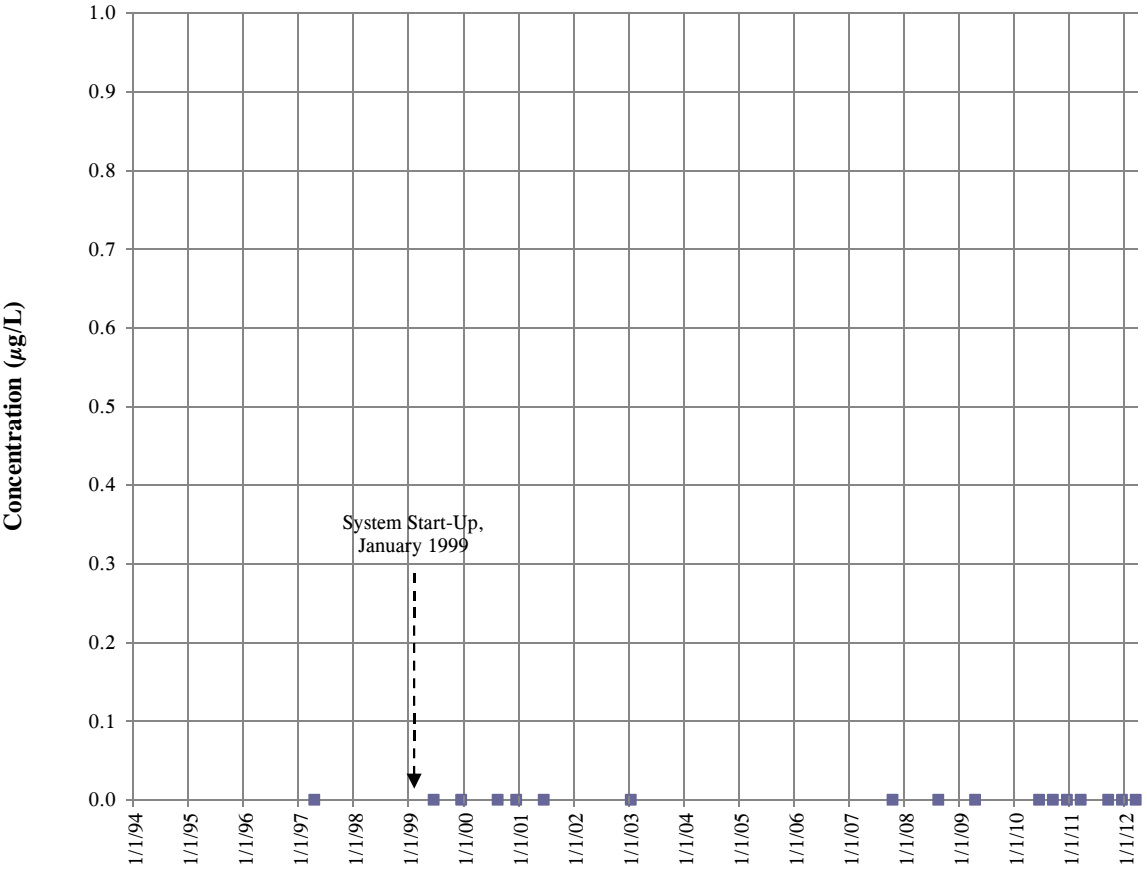
Trend Graph 7 - MW-3E Carbon Tetrachloride



Carbon Tetrachloride

2/14/95	ND
4/29/97	ND
6/23/99	ND
12/16/99	4
8/12/00	2
12/20/00	2
6/5/01	ND
1/23/03	ND
10/10/07	0.50 U
8/15/08	5 U
4/22/09	1.0 U
6/19/10	0.50 U
9/23/10	1.0 U
12/18/10	0.50 U
3/27/11	0.5 U
9/30/11	1.0 UJ
12/17/11	1.1
3/14/12	1.0 U

Trend Graph 8 - MW-3E Chloroform

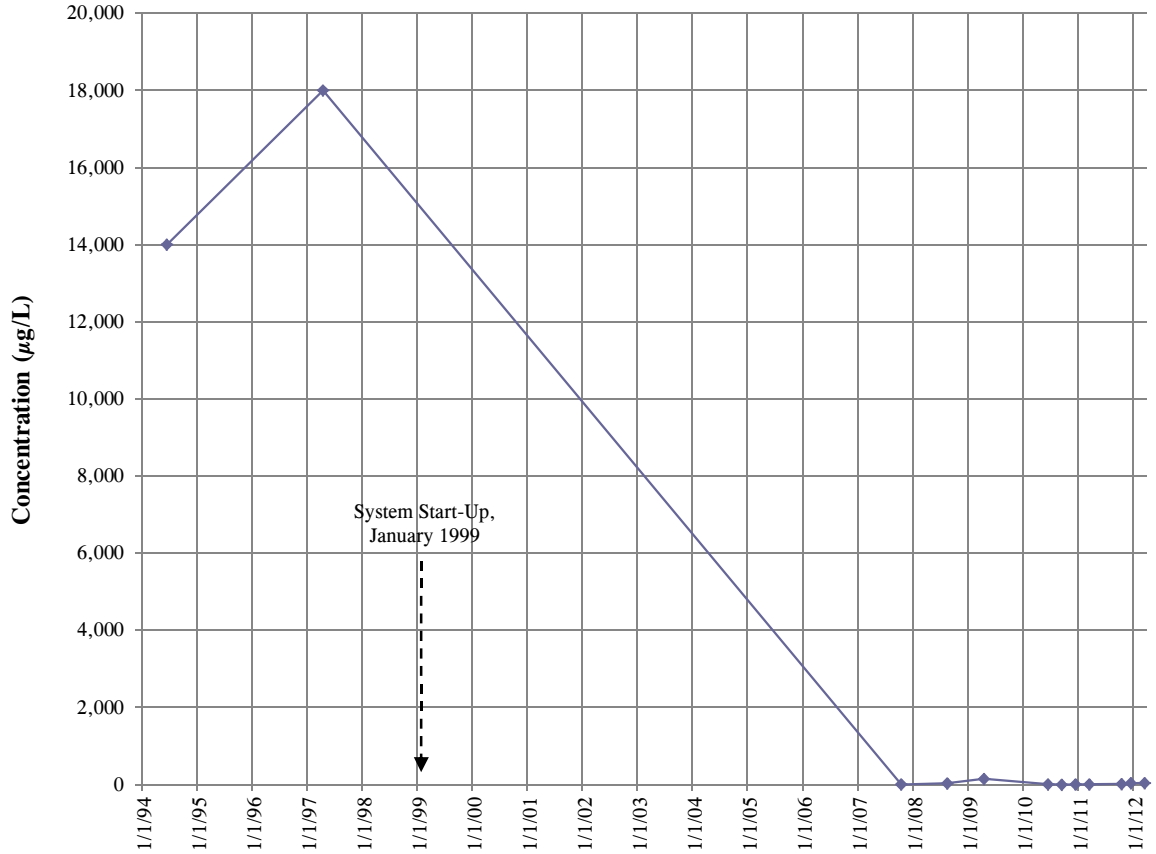


Chloroform

2/14/95	NA
4/29/97	ND
6/23/99	ND
12/16/99	ND
8/12/00	ND
12/20/00	ND
6/5/01	ND
1/23/03	ND
10/10/07	0.50 U
8/15/08	5 U
4/22/09	1.0 UJ
6/19/10	0.50 U
9/23/10	1.0 U
12/18/10	0.50 U
3/27/11	0.5 U
9/30/11	1.0 U
12/17/11	1.0 U
3/14/12	1.0 U

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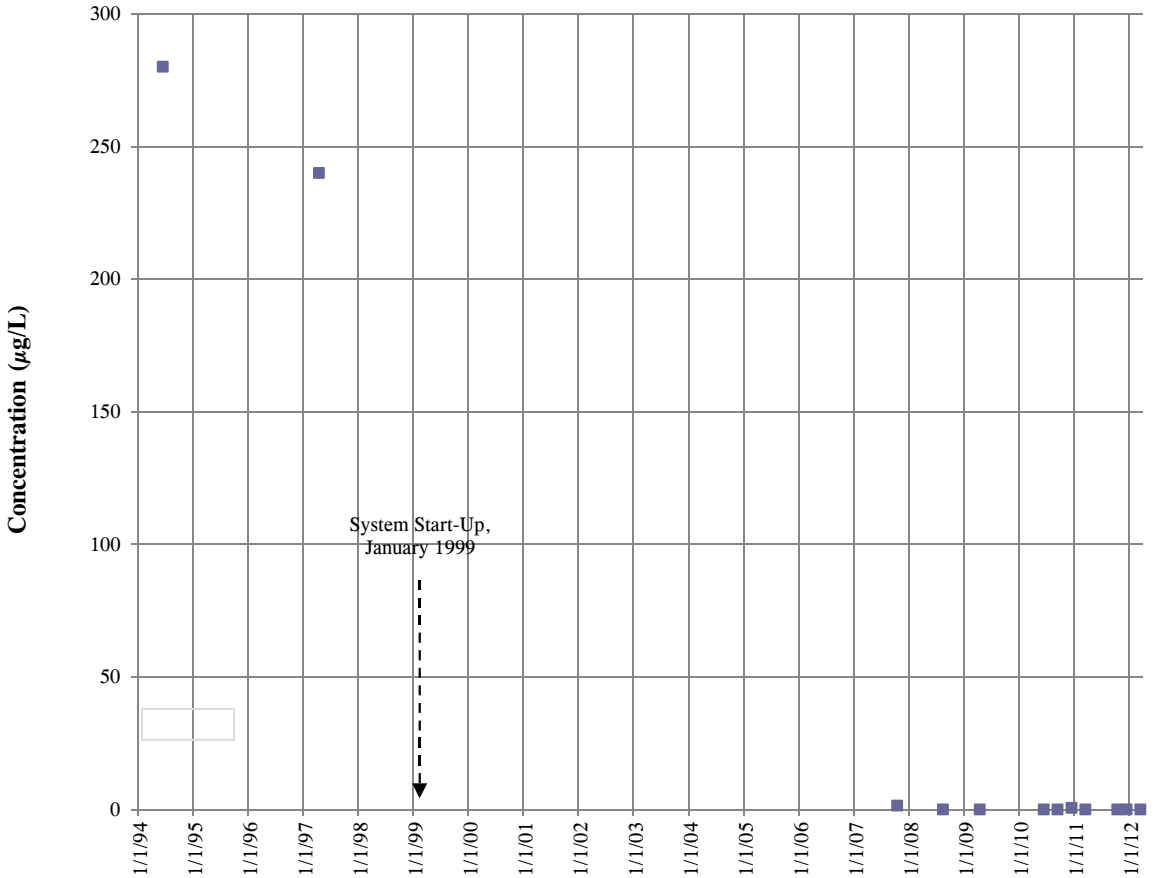
Trend Graph 9 - MW-4A Carbon Tetrachloride



Carbon Tetrachloride

6/24/94	14,000
4/29/97	18,000
10/13/07	8
8/15/08	35
4/22/09	150
6/18/10	12
9/26/10	4.3
12/19/10	6.8
3/27/11	12
10/2/11	21
12/18/11	38
3/18/12	44

Trend Graph 10 - MW-4A Chloroform

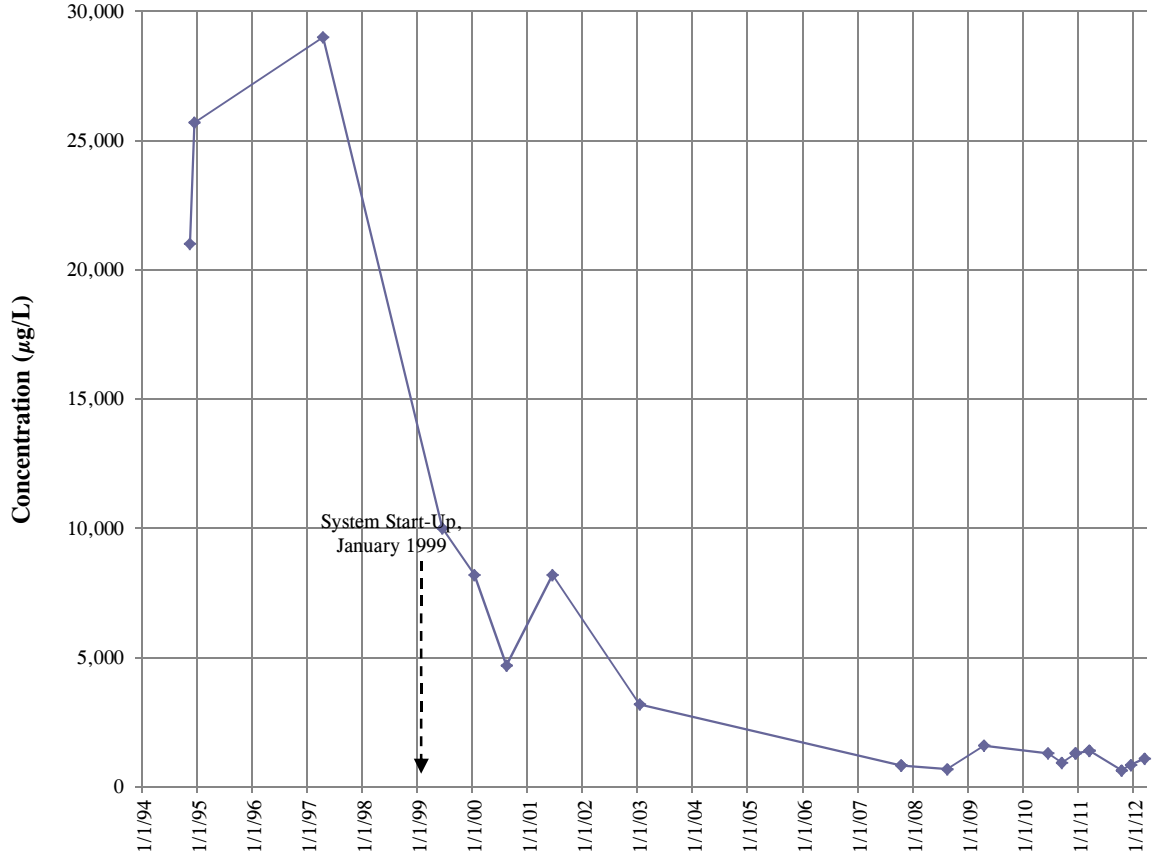


Chloroform

6/24/94	280
4/29/97	240
10/13/07	1.4
8/15/08	5 U
4/22/09	5.0 U
6/18/10	0.50 U
9/26/10	1.0 U
12/19/10	0.62
3/27/11	0.5 U
10/2/11	1.0 U
12/18/11	1.0 U
3/18/12	1.0 U

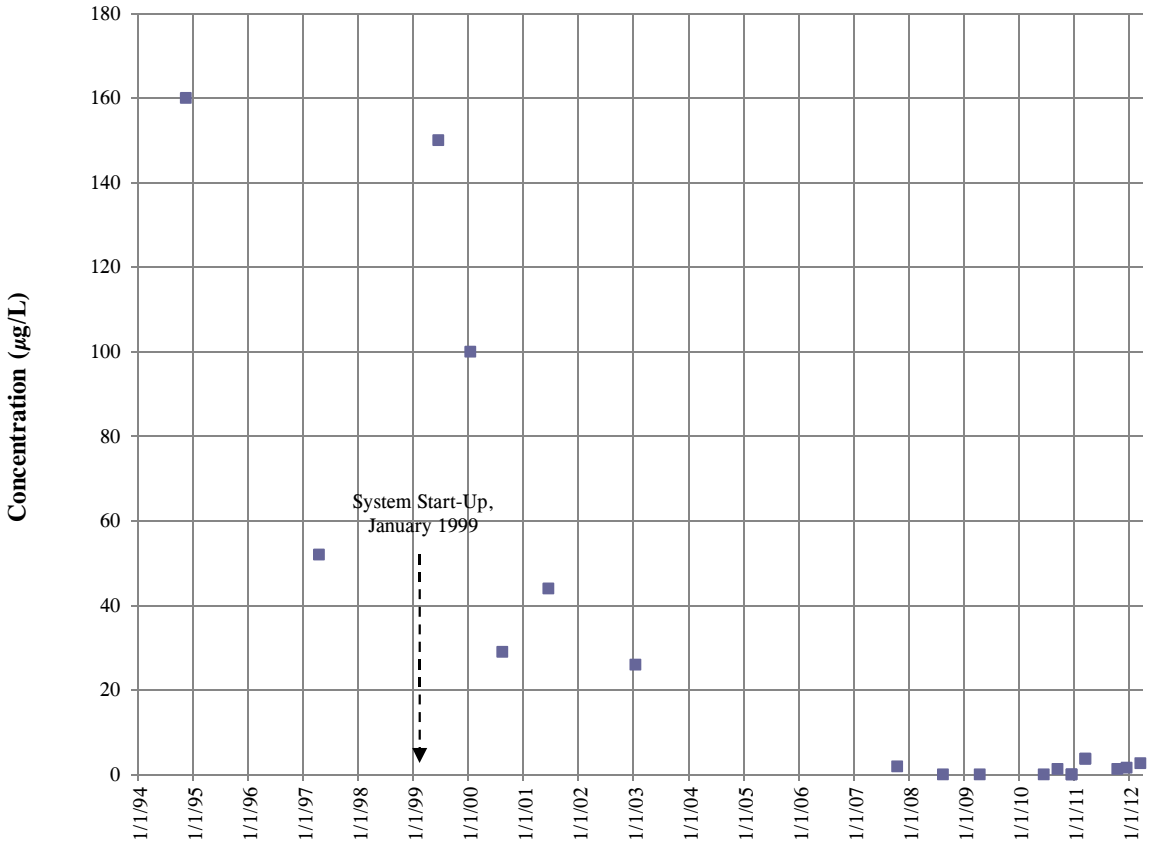
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Trend Graph 11 - MW-4B Carbon Tetrachloride



Carbon Tetrachloride	
11/17/94	21,000
12/2/94	25,695
4/29/97	29,000
6/26/99	10,000
1/22/00	8,200
8/12/00	4,700
6/5/01	8,200
1/24/03	3,200
10/13/07	830
8/15/08	690
4/22/09	1600
6/18/10	1300
9/26/10	940
12/19/10	1300
3/27/11	1400
10/2/11	640
12/18/11	850
3/18/12	1100

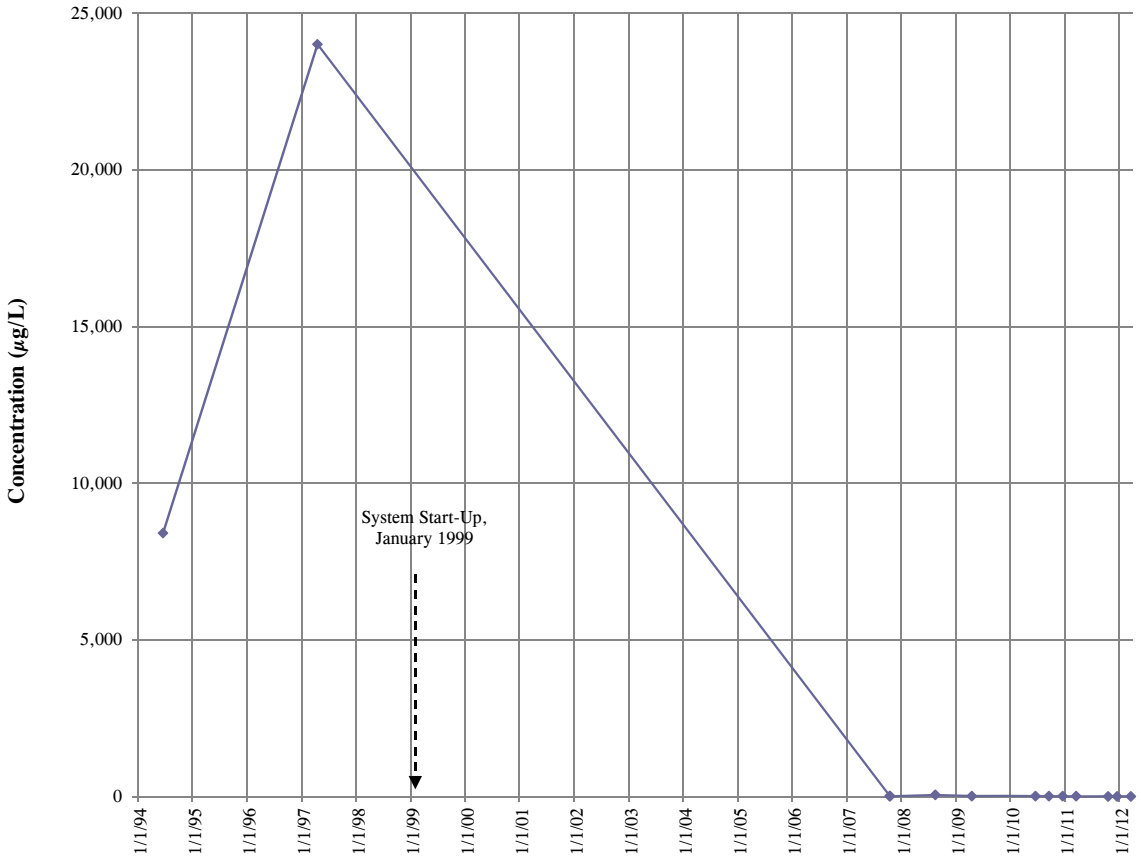
Trend Graph 12 - MW-4B Chloroform



Chloroform	
11/17/94	160
12/2/94	NA
4/29/97	52
6/26/99	150
1/22/00	100
8/12/00	29
6/5/01	44
1/24/03	26
10/13/07	1.90
8/15/08	5 U
4/22/09	5.0 U
6/18/10	5.0 U
9/26/10	1.3
12/19/10	3.8 U
3/27/11	3.7
10/2/11	1.3
12/18/11	1.6
3/18/12	2.7

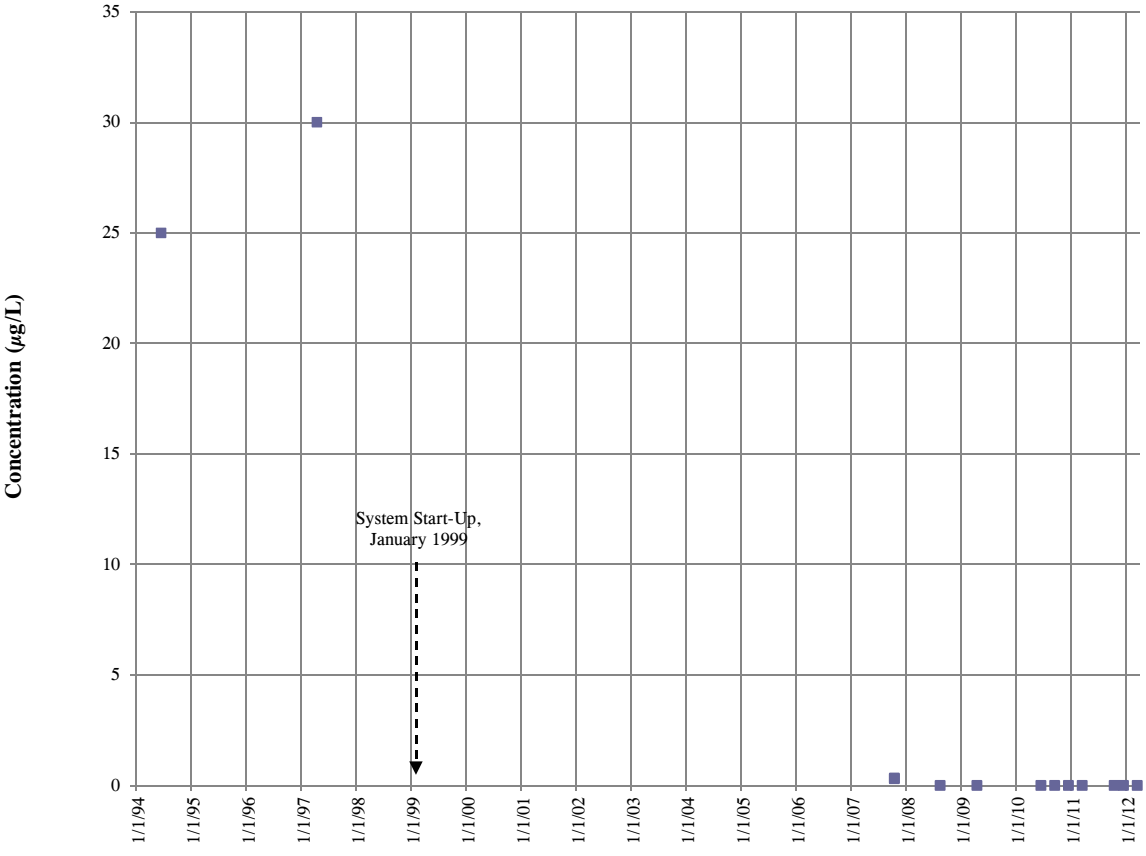
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Trend Graph 13 - MW-5A Carbon Tetrachloride



Carbon Tetrachloride	
6/24/94	8,400
4/29/97	24,000
10/13/07	7.9
10/13/07	7.3
8/15/08	51
4/23/09	13
6/20/10	13
9/24/10	9.8
12/17/10	11
3/25/11	6.6
10/1/11	4.1 J
12/18/11	5.1
3/17/12	4.7

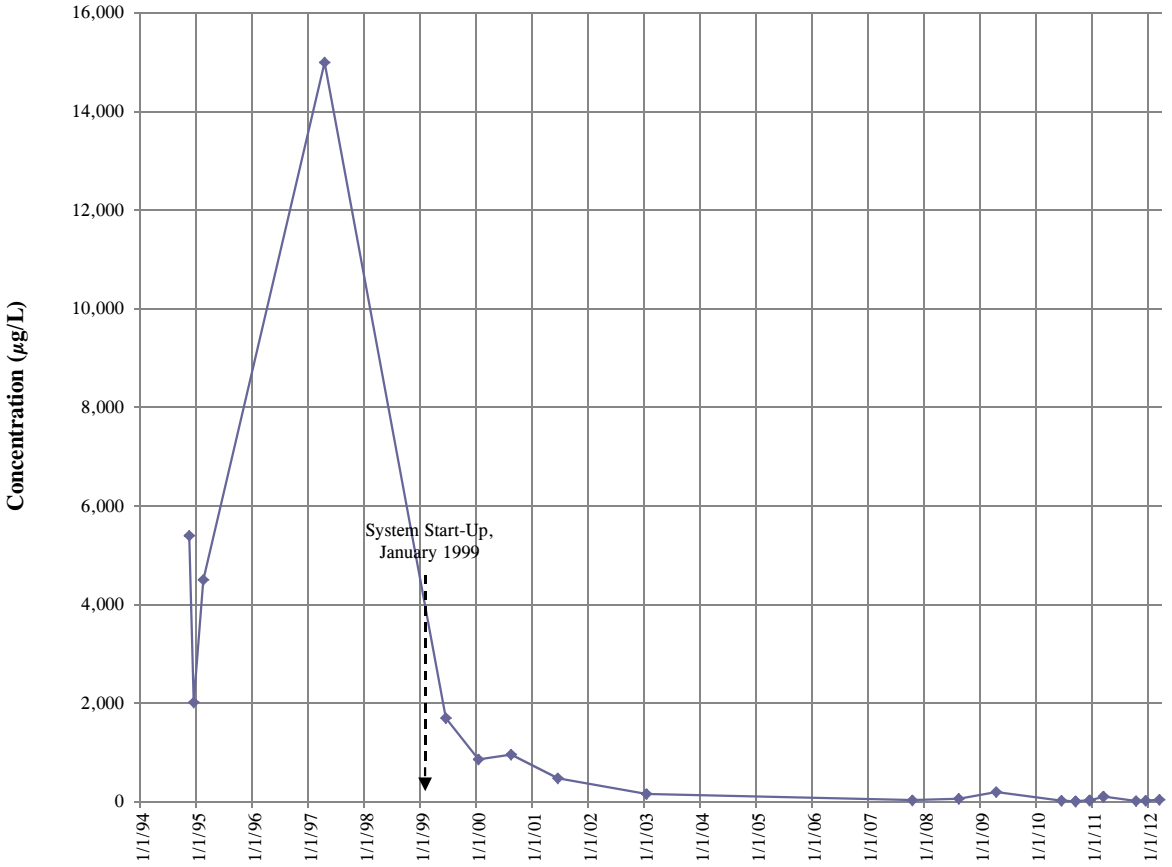
Trend Graph 14 - MW-5A Chloroform



Chloroform	
6/24/94	25
4/29/97	30
10/13/07	0.33
10/13/07	0.30
8/15/08	5 U
4/23/09	5.0 U
6/20/10	0.50 U
9/24/10	1.0 U
12/17/10	0.50 U
3/25/11	0.5 U
10/1/11	1.0 U
12/18/11	1.0 U
3/17/12	1.0 U

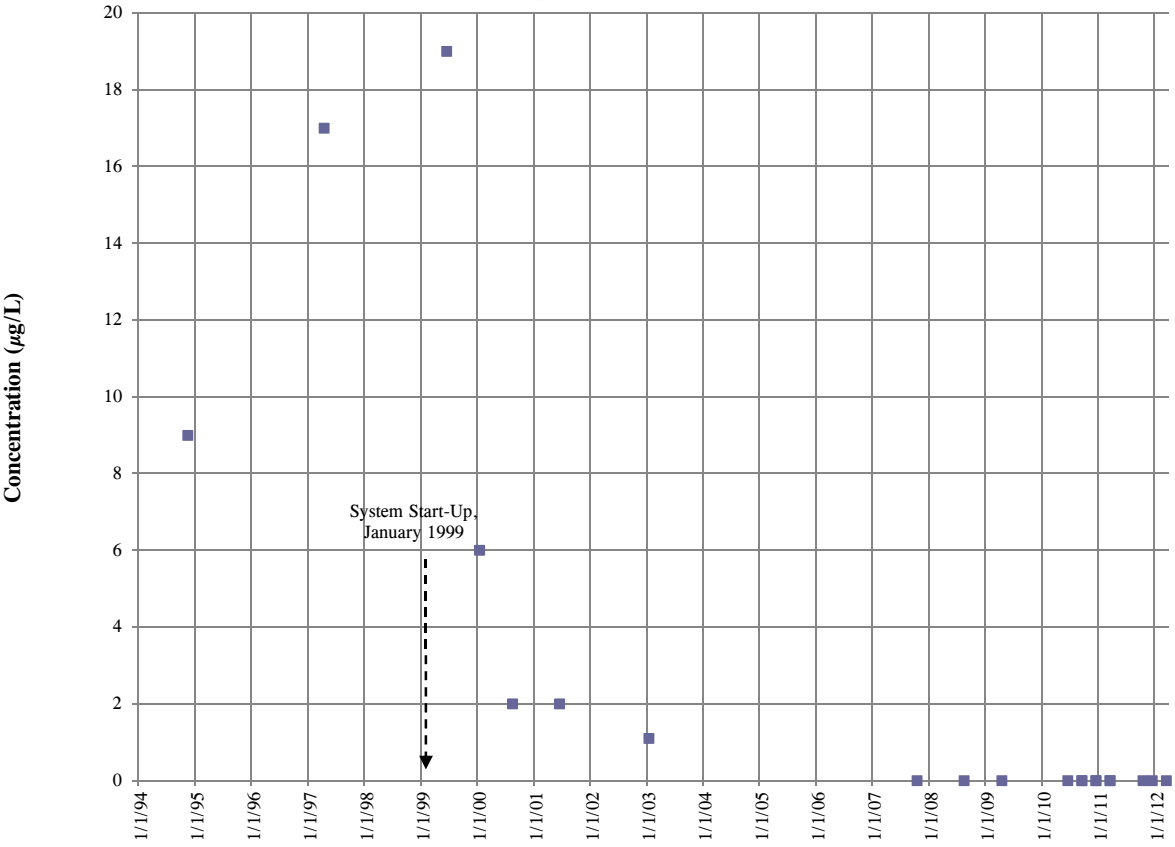
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Trend Graph 15 - MW-5B Carbon Tetrachloride



Carbon Tetrachloride	
11/21/94	5,400
12/1/94	2,017
2/14/95	4,500
4/29/97	15,000
6/25/99	1,700
1/15/00	860
8/13/00	960
6/6/01	480
1/22/03	160
10/13/07	33
8/15/08	64
4/23/09	200
6/20/10	24
9/23/10	12
9/23/10	13
12/17/10	33
12/17/10	30
3/25/11	100
3/25/11	110
10/1/11	19 J
12/18/11	26
3/17/12	43

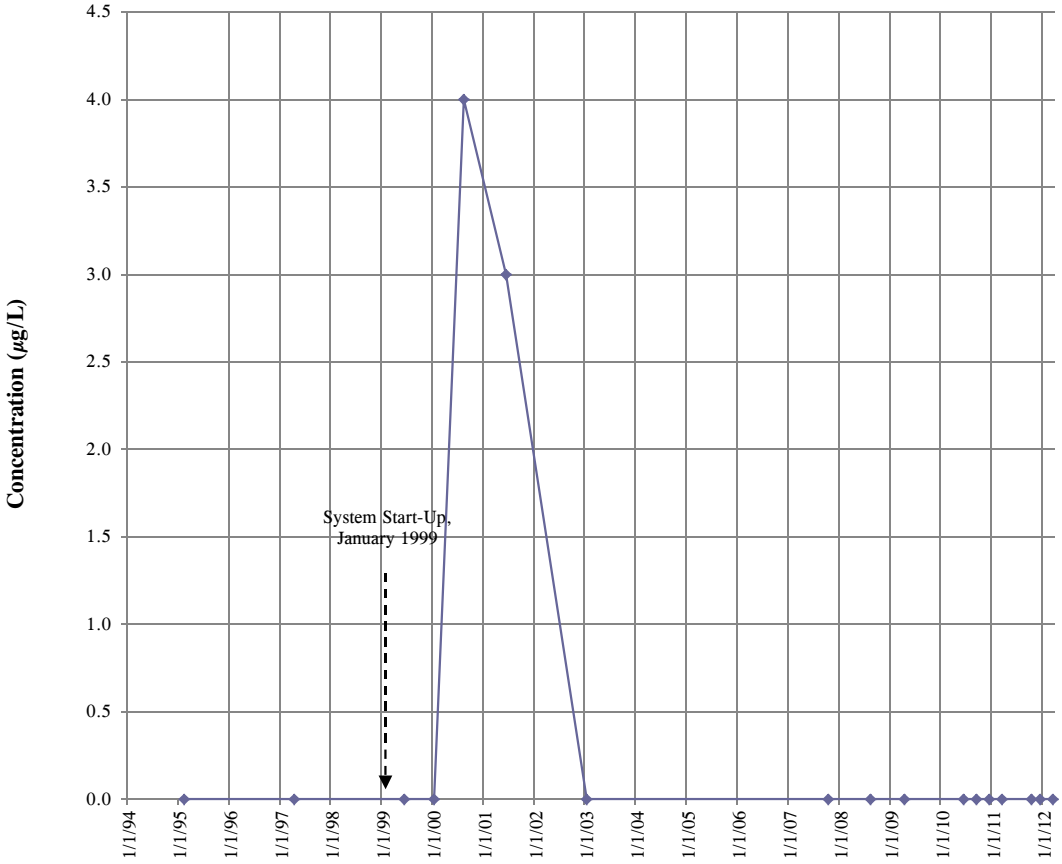
Trend Graph 16 - MW-5B Chloroform



Chloroform	
11/21/94	9
12/1/94	NA
2/14/95	NA
4/29/97	17
6/25/99	19
1/15/00	6
8/13/00	2
6/6/01	2
1/22/03	1.1
10/13/07	0.5 U
8/15/08	5 U
4/23/09	5.0 U
6/20/10	0.50 U
9/23/10	1.0 U
9/23/10	1.0 U
12/17/10	0.50 U
12/17/10	0.50 U
3/25/11	0.63 U
3/25/11	0.68 U
10/1/11	1.0 U
12/18/11	1.0 U
3/17/12	1.0 U

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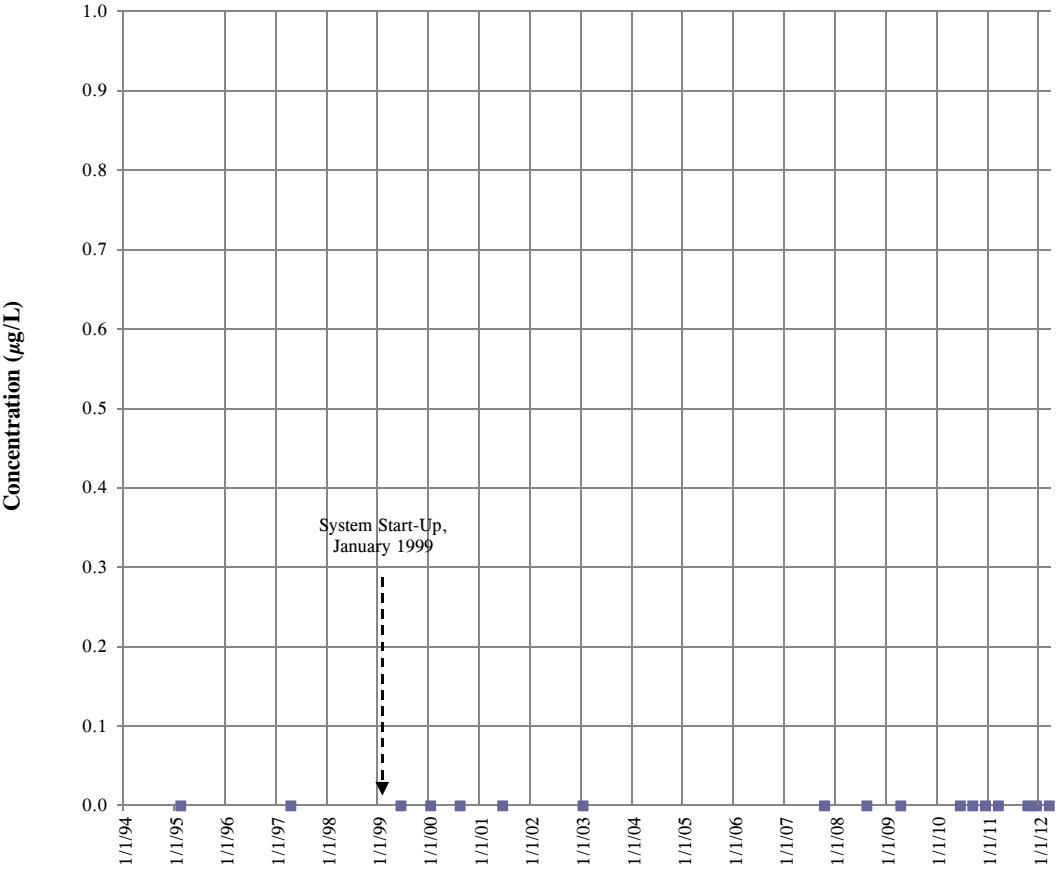
Trend Graph 17 - MW-5D Carbon Tetrachloride



Carbon Tetrachloride

2/14/95	ND
4/29/97	ND
6/25/99	ND
1/15/00	ND
8/13/00	4
6/6/01	3
1/22/03	ND
10/13/07	0.50 U
8/15/08	0.5 U
4/23/09	1.0 U
6/20/10	NS
9/24/10	1.0 U
12/17/10	0.50 U
3/25/11	0.5 U
10/1/11	1.0 UJ
12/18/11	1.0 U
3/17/12	1.0 U

Trend Graph 18 - MW-5D Chloroform

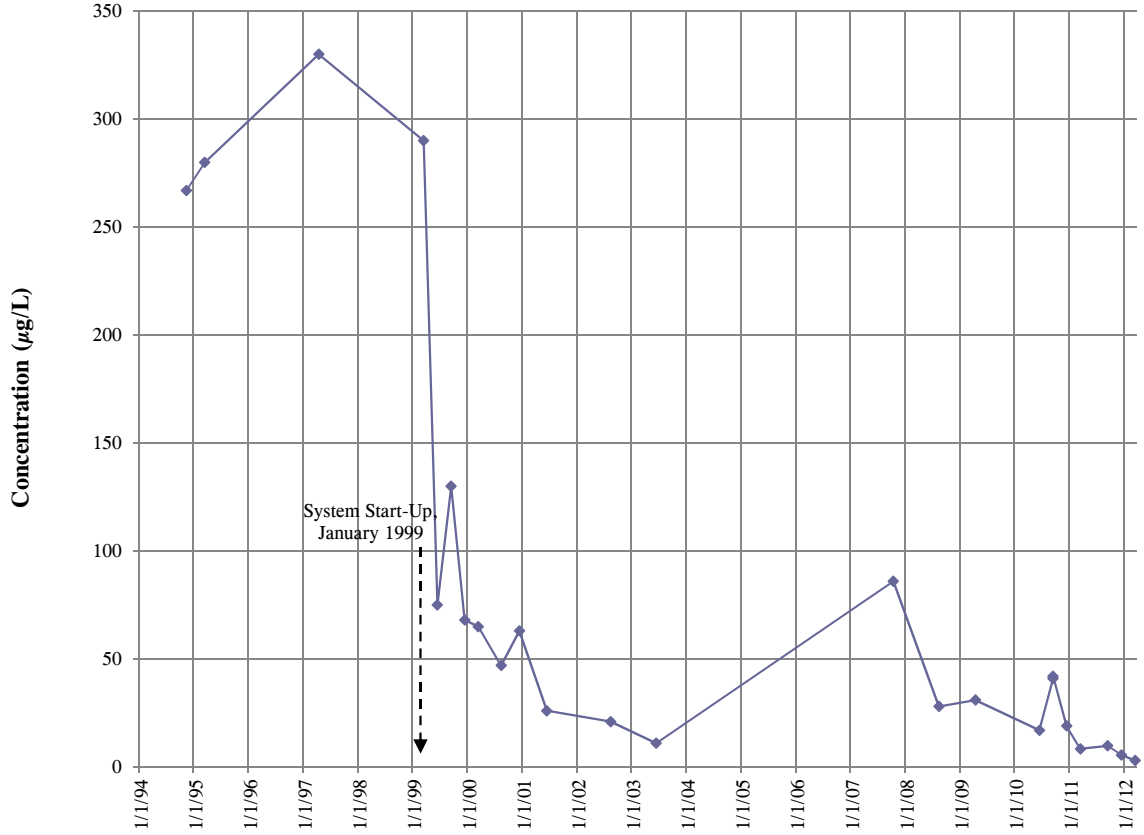


Chloroform

2/14/95	ND
4/29/97	ND
6/25/99	ND
1/15/00	ND
8/13/00	ND
6/6/01	ND
1/22/03	ND
10/13/07	0.50 U
8/15/08	0.5 U
4/23/09	1.0 UJ
6/20/10	NS
9/24/10	1.0 U
12/17/10	0.50 U
3/25/11	0.5 U
10/1/11	1.0 U
12/18/11	1.0 U
3/17/12	1.0 U

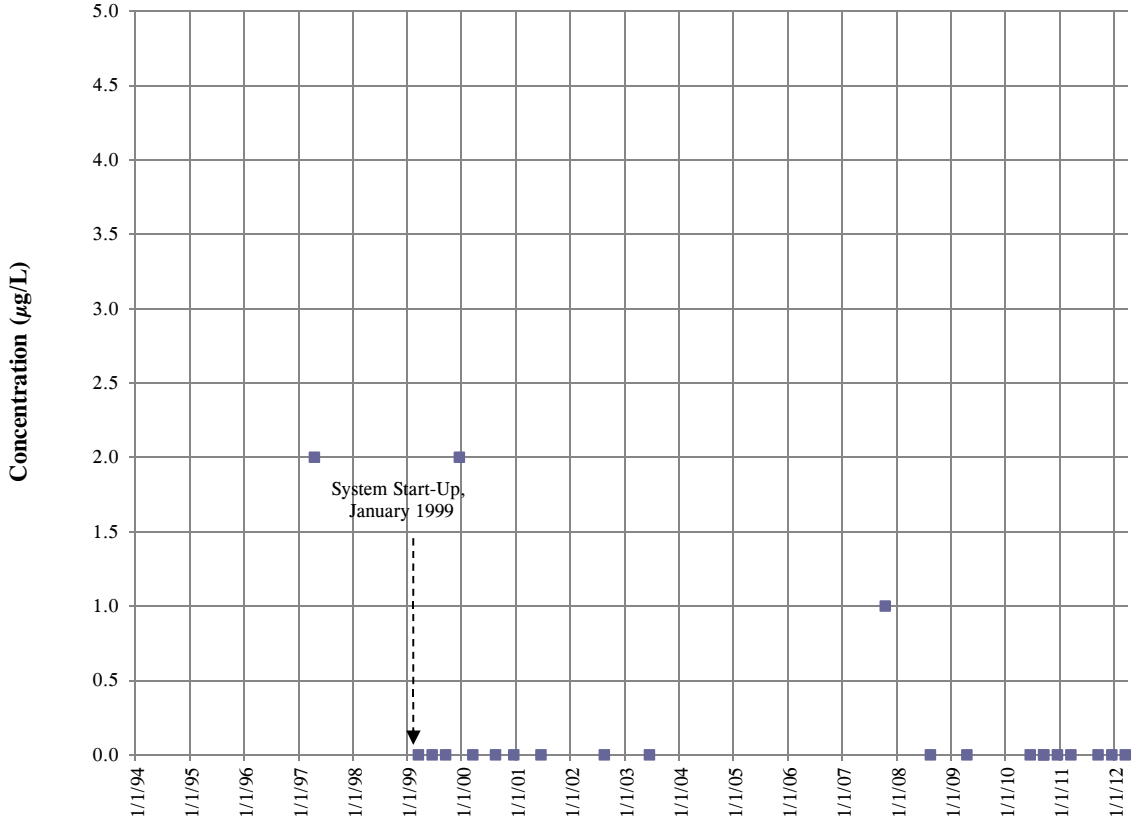
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Trend Graph 19 - MW-6A Carbon Tetrachloride



Carbon Tetrachloride	
11/30/94	267
3/16/95	280
4/29/97	330
3/26/99	290
6/22/99	75
9/29/99	130
12/14/99	68
3/25/00	65
8/11/00	47
12/19/00	63
6/4/01	26
8/12/02	21
6/24/03	11
10/12/07	86
8/14/08	28
4/21/09	31
6/20/10	17
9/24/10	41
9/24/10	42
12/17/10	19
3/26/11	8.4
9/28/11	9.8
12/14/11	5.6
3/12/12	3

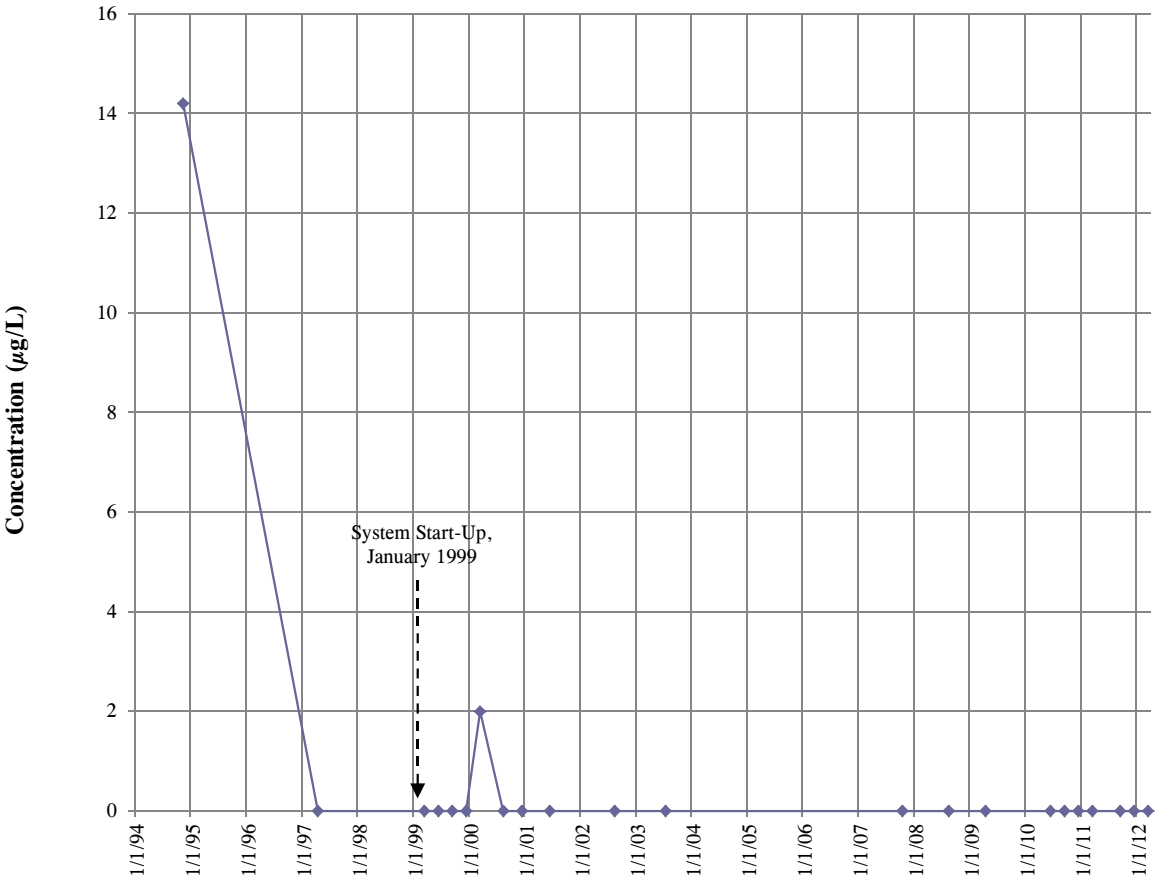
Trend Graph 20 - MW-6A Chloroform



Chloroform	
11/30/94	NA
3/16/95	NA
4/29/97	2
3/26/99	0
6/22/99	0
9/29/99	0
12/14/99	2
3/25/00	0
8/11/00	0
12/19/00	0
6/4/01	0
8/12/02	0
6/24/03	0
10/12/07	1
8/14/08	0.5 U
4/21/09	5 U
6/20/10	0.50 U
9/24/10	1.0 U
9/24/10	1.0 U
12/17/10	0.50 U
3/26/11	0.5 U
9/28/11	1.0 U
12/14/11	1.0 U
3/12/12	1.0 U

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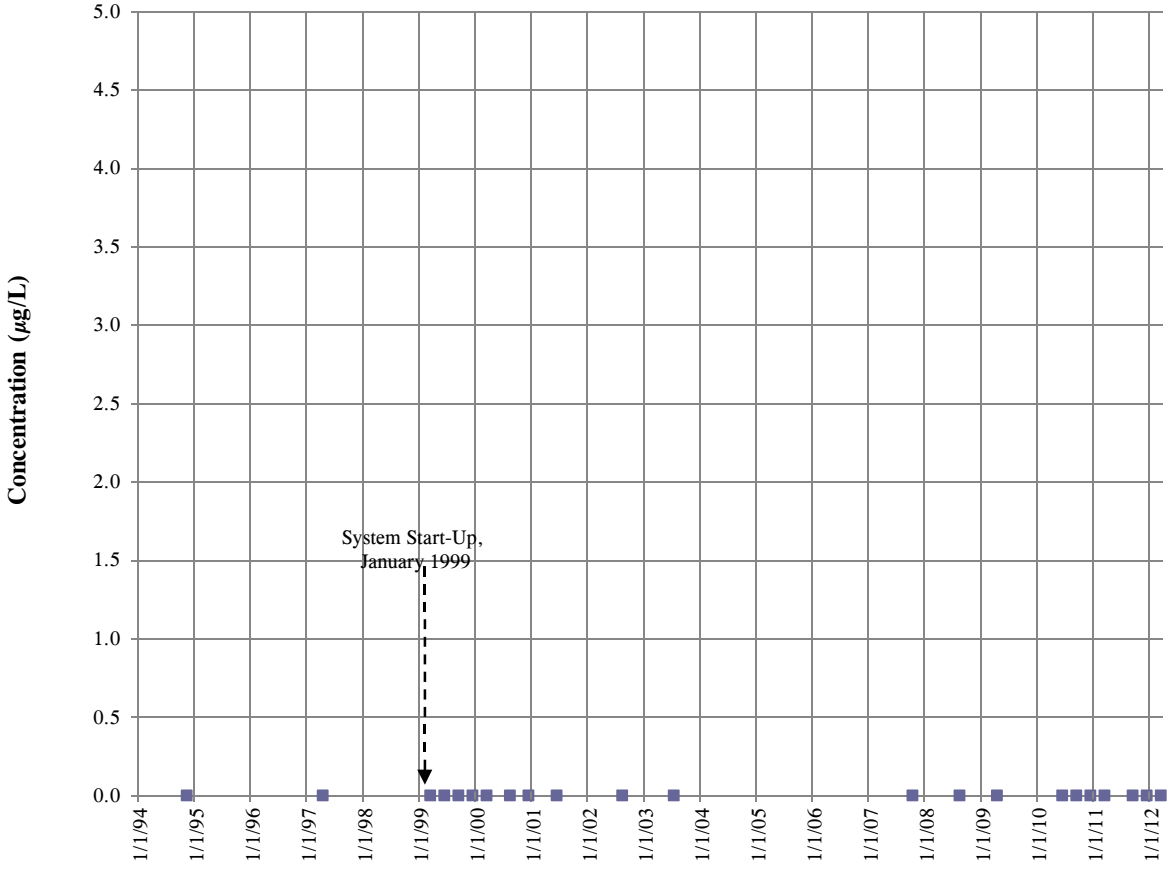
Trend Graph 21 - MW-6D Carbon Tetrachloride



Carbon Tetrachloride

11/30/94	14.2
4/29/97	0
3/25/99	0
6/22/99	0
9/29/99	0
12/14/99	0
3/25/00	2
8/11/00	0
12/19/00	0
6/4/01	0
8/12/02	0
7/16/03	0
10/12/07	0.50 U
8/14/08	0.5 U
4/21/09	1.0 U
6/20/10	0.50 U
9/24/10	1.0 U
12/17/10	0.50 U
3/26/11	0.5 U
9/29/11	1.0 U
12/14/11	1.0 U
3/12/12	1.0 U

Trend Graph 22 - MW-6D Chloroform

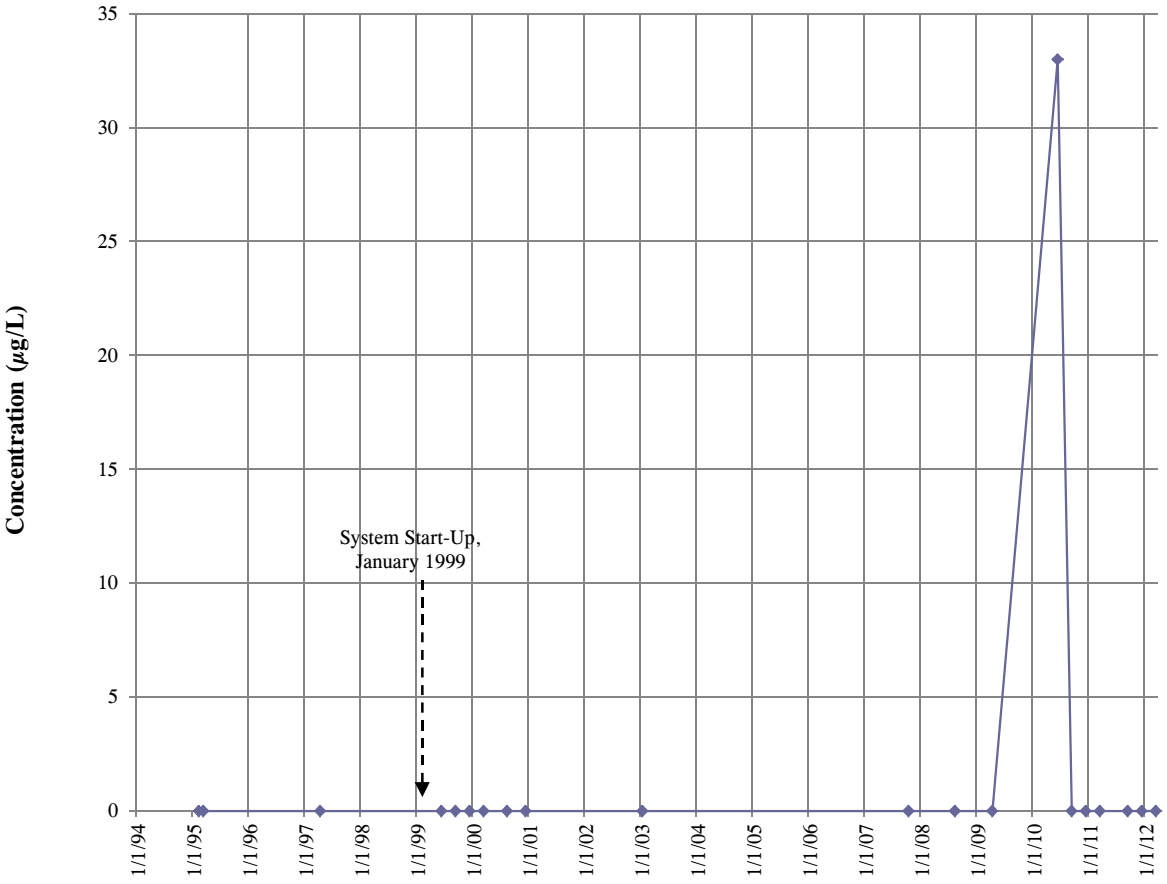


Chloroform

11/30/94	NA
4/29/97	0
3/25/99	0
6/22/99	0
9/29/99	0
12/14/99	0
3/25/00	0
8/11/00	0
12/19/00	0
6/4/01	0
8/12/02	0
7/16/03	0
10/12/07	0.50 U
8/14/08	0.5 U
4/21/09	1.0 U
6/20/10	0.50 U
9/24/10	1.0 U
12/17/10	0.50 U
3/26/11	0.5 U
9/29/11	1.0 U
12/14/11	1.0 U
3/12/12	1.0 U

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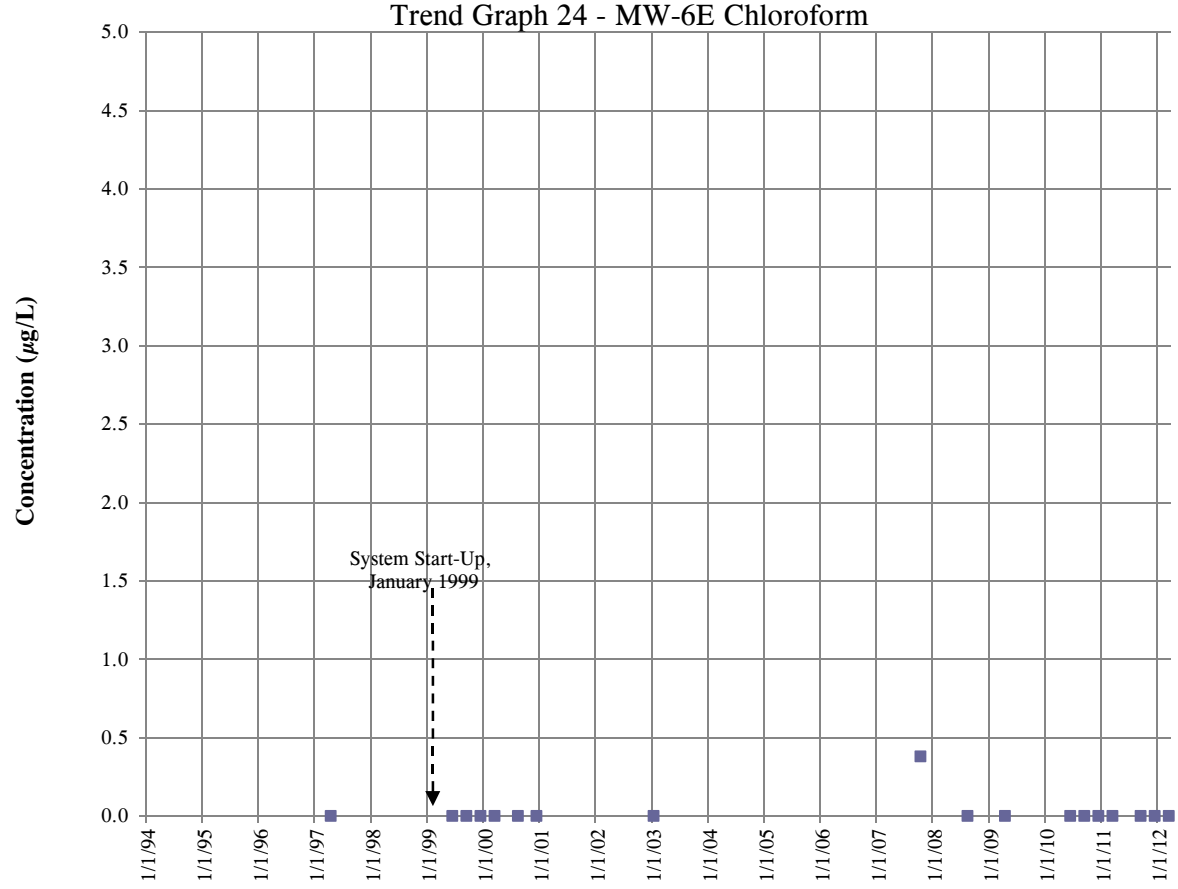
Trend Graph 23 - MW-6E Carbon Tetrachloride



Carbon Tetrachloride

2/14/95	0
3/16/95	0
4/29/97	0
6/22/99	0
9/28/99	0
12/14/99	0
3/25/00	0
8/11/00	0
12/19/00	0
1/21/03	0
10/10/07	0.50 U
8/14/08	0.5 U
4/21/09	1.0 U
6/20/10	33
9/24/10	1.0 U
12/17/10	0.50 U
3/26/11	0.5 U
9/29/11	1.0 U
12/14/11	1.0 U
3/12/12	1.0 U

Trend Graph 24 - MW-6E Chloroform

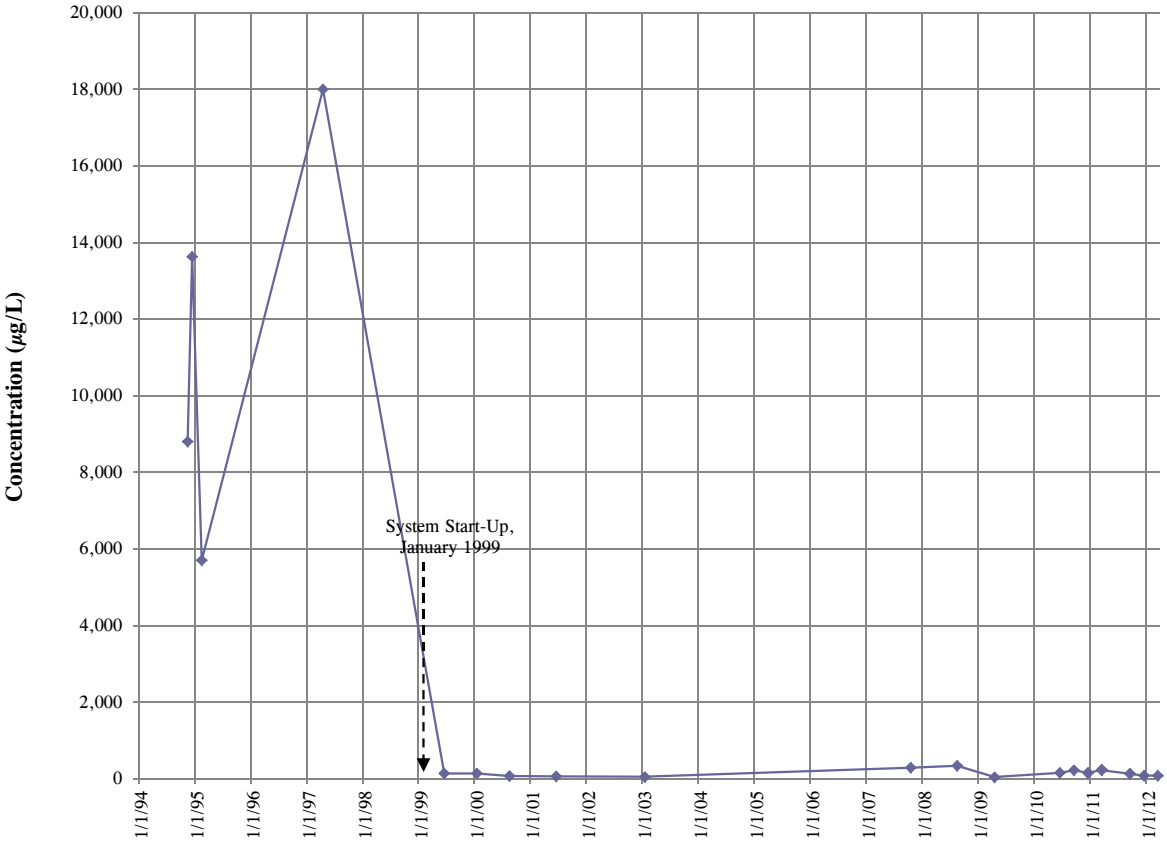


Chloroform

2/14/95	NA
3/16/95	NA
4/29/97	0
6/22/99	0
9/28/99	0
12/14/99	0
3/25/00	0
8/11/00	0
12/19/00	0
1/21/03	0
10/10/07	0.38
8/14/08	0.5 U
4/21/09	1.0 U
6/20/10	0.50 U
9/24/10	1.0 U
12/17/10	0.50 U
3/26/11	0.5 U
9/29/11	1.0 U
12/14/11	1.0 U
3/12/12	1.0 U

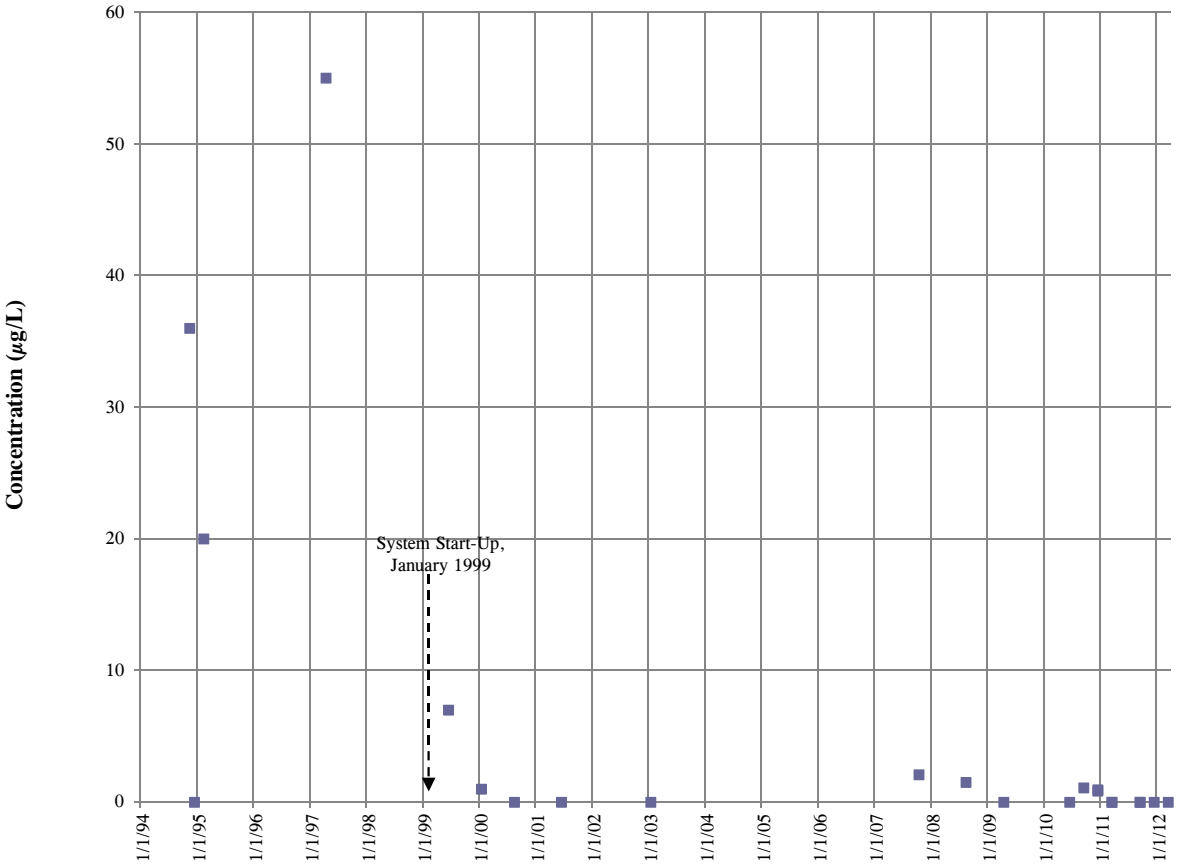
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Trend Graph 25 - MW-13C Carbon Tetrachloride



Carbon Tetrachloride	
11/19/94	8,800
12/2/94	13,631
2/15/95	5,700
4/29/97	18,000
6/24/99	140
1/22/00	140
8/13/00	73
6/6/01	62
1/22/03	52
10/13/07	290
8/15/08	340
4/23/09	44
6/18/10	160
9/25/10	220
12/19/10	160
12/19/10	150
3/26/11	240
3/26/11	220
9/29/11	130
9/29/11	130
12/19/11	80
3/18/12	86

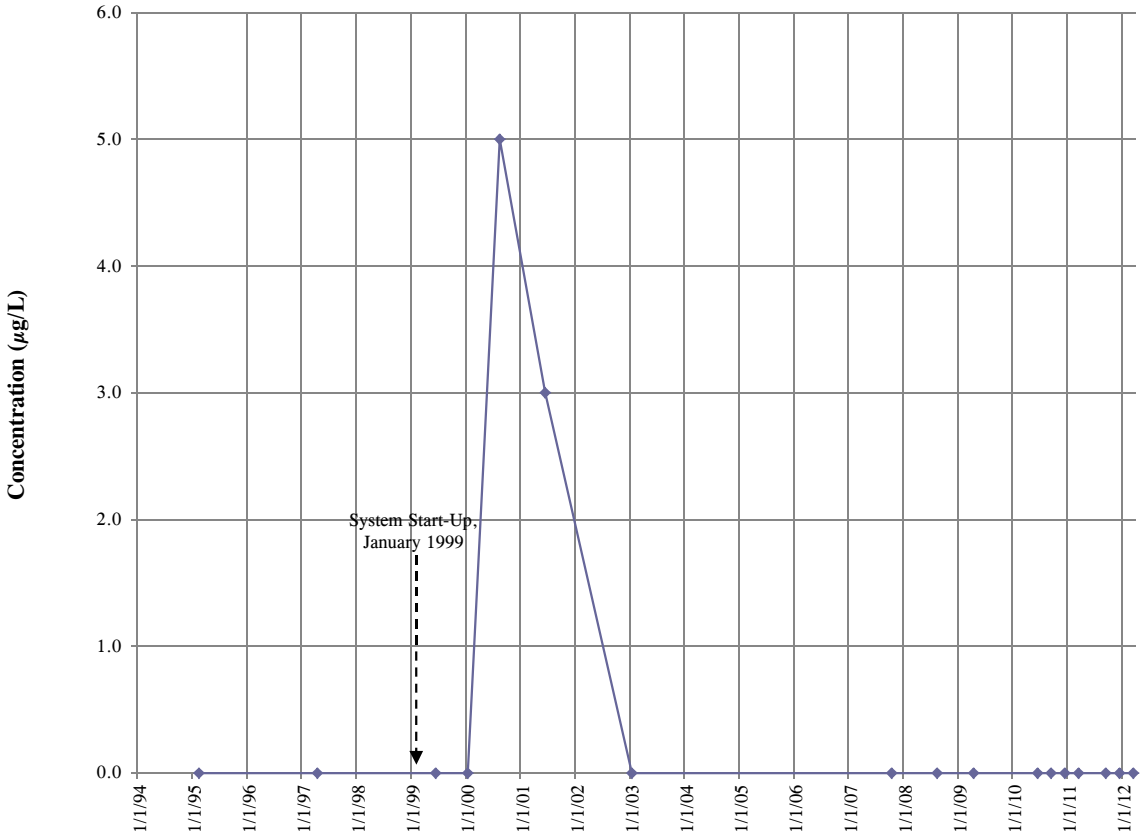
Trend Graph 26 - MW-13C Chloroform



Chloroform	
11/19/94	36
12/2/94	NA
2/15/95	20
4/29/97	55
6/24/99	7
1/22/00	1
8/13/00	ND
6/6/01	ND
1/22/03	ND
10/13/07	2.1
8/15/08	1.5
4/23/09	5.0 U
6/18/10	0.50 U
9/25/10	1.1
12/19/10	0.94 J
12/19/10	0.85
3/26/11	1.6 U
3/26/11	1.7 U
9/29/11	1.0 U
9/29/11	1.0 U
12/19/11	1.0 U
3/18/12	1.0 U

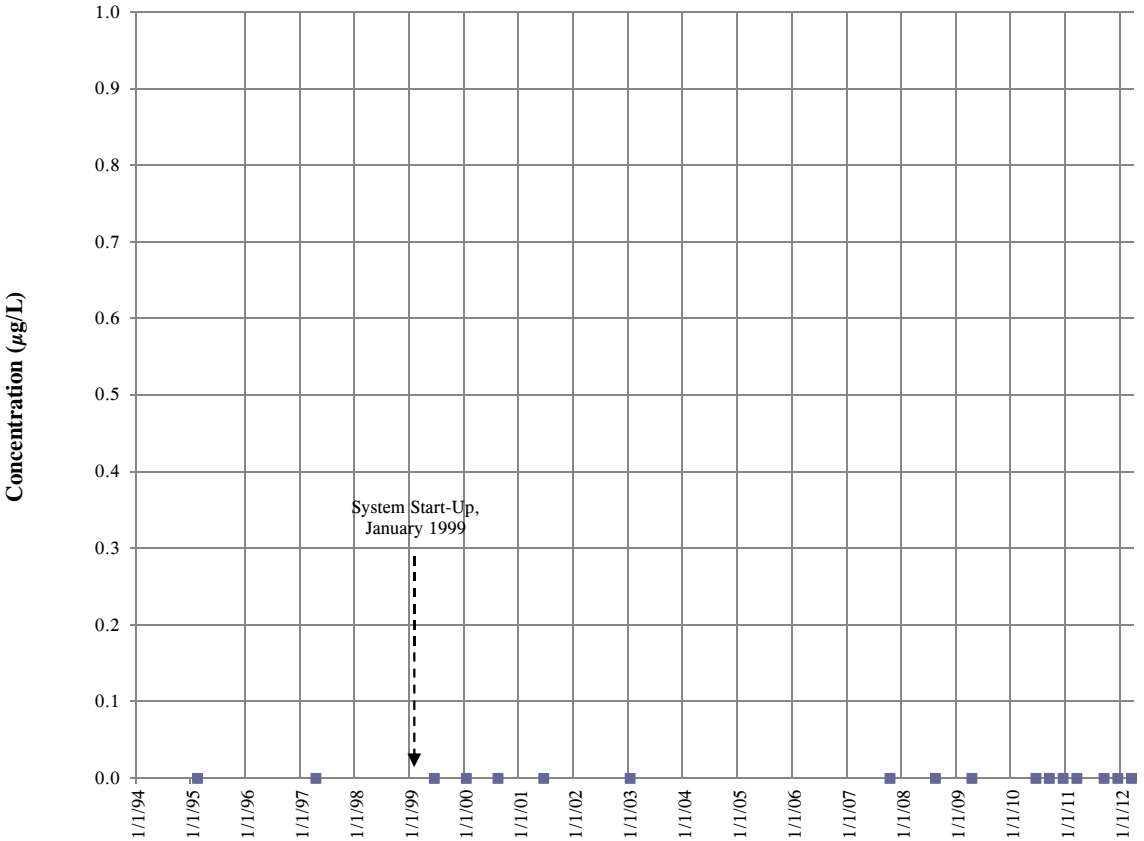
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Trend Graph 27 - MW-13E Carbon Tetrachloride



Carbon Tetrachloride	
2/14/95	ND
4/29/97	ND
6/23/99	ND
1/22/00	ND
8/13/00	5
6/6/01	3
1/22/03	ND
10/13/07	0.50 U
8/15/08	0.5 U
4/23/09	1.0 U
6/18/10	0.50 U
9/25/10	1.0 U
12/19/10	0.50 U
3/26/11	0.5 U
9/29/11	1.0 UJ
3/18/12	1.0 U

Trend Graph 28 - MW-13E Chloroform



Chloroform	
2/14/95	ND
4/29/97	ND
6/23/99	ND
1/22/00	ND
8/13/00	ND
6/6/01	ND
1/22/03	ND
10/13/07	0.50 U
8/15/08	0.5 U
4/23/09	1.0 UJ
6/18/10	0.50 U
9/25/10	1.0 U
12/19/10	0.50 U
3/26/11	0.5 U
9/29/11	1.0 UJ
3/18/12	1.0 U

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ATTACHMENT 4

TABULATED ANALYTICAL DATA

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Table A4.1
Analytical Results - December 2011
Garvey Elevator Site
Hastings, NE

EPA Lab ID		5619-12	5619-14	5619-28	5619-29	5619-29-FD	5619-32	5619-31	5619-34	5619-33	5619-36	5619-35	5619-43	5619-2	5619-2-FD	5619-1	5619-4	5619-10	5619-11	5619-13	5619-9	5619-45	5619-44
Sample Location		MW-1A	MW-2A	MW-3A	MW-3B	MW-3B	MW-3D	MW-3E	MW-4A	MW-4B	MW-5A	MW-5B	MW-5D	MW-6A	MW-6A	MW-6D	MW-6E	MW-7A	MW-7B	MW-08A	MW-9A	MW-13C	MW-13E
Sample Collection Date		12/15/2011	12/15/2011	12/17/2011	12/15/2011	12/15/2011	12/17/2011	12/17/2011	12/18/2011	12/18/2011	12/18/2011	12/18/2011	12/19/2011	12/14/2011	12/14/2011	12/14/2011	12/14/2011	12/15/2011	12/15/2011	12/15/2011	12/15/2011	12/19/2011	12/19/2011
Operable Unit		OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Field Measurements (units)	**PRG[1]**																						
Temperature (Degrees C)	NE	9.97	8.29	12.5	11.95	11.95	12.42	12.38	12.71	12.62	14.11	13.71	11.27	8.79	8.79	10.95	10.38	8.24	10.1	10.42	10.35	13.27	12.95
pH (SU)	NE	7.50	7.52	7.31	7.26	7.26	7.41	8.01	7.06	7.01	7.02	6.96	7.07	7.65	7.65	7.41	7.96	7.53	7.48	7.64	7.56	7.38	7.44
Conductivity (μmhos/cm)	NE	0.740	0.728	0.931	0.838	0.838	0.536	0.564	0.727	0.775	0.774	0.847	0.576	0.821	0.821	0.541	0.347	0.782	0.816	1.13	0.937	0.640	0.555
Total Dissolved Oxygen (mg/L)	NE	8.88	6.98	7.90	7.33	7.33	6.67	5.96	6.01	8.15	8.61	5.65	7.91	8.52	8.52	7.28	5.03	10.77	8.58	8.20	9.08	8.90	7.47
Oxidation Reduction Poential (mV)	NE	227	238	61	80	80	82	40	195	212	209	205	197	162	162	135	161	226	224	226	216	193	191
Turbidity (NTU)	NE	6.8	6.5	7.2	15.3	15.3	4.0	1.8	26.3	47.0	34.1	3.6	13.3	4.4	4.4	0.1	0	3.3	2.4	4.4	10.0	2.8	1.6
Volatile Organic Compounds (μg/L)																							
1,1,1-Trichloroethane	200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	0.066 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	53,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	2.4 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5.2 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane	0.05	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	NE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	75	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (methyl ethyl ketone)	4,900 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	34 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
4-Methyl-2-Pentanone	1,000 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	12,000 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	**8.5 J**	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	7 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	720 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5	1.0 U	1.0 U	**1.4**	**180**	**170**	1.0 U	**1.1**	**38**	**850**	**5.1**	**26**	1.0 U	**5.6**	**5.6**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**80**	1.0 U
Chlorobenzene	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane (ethyl chloride)	21,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.6**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	190 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.41 [3]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	13,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	190 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (cumene)	390 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylene	10,000 [4]	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl Acetate	16,000 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	12 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	NE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	0.14	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	10,000 [4]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	100	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.41 [3]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	1,100 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

US EPA ARCHIVE DOCUMENT

Table A4.1
Analytical Results - December 2011
Garvey Elevator Site
Hastings, NE

EPA Lab ID		5619-42	5619-21	5619-24	5619-25	5619-26	5619-27	5619-18	5619-22	5619-22-FD	5619-19	5619-20	5619-16	5619-17	5619-5	5619-5-FD	5619-8	5619-7	5619-38	5619-38-FD	5619-40	5619-40-FD	5619-37
Sample Location		MW-19A	MW-19C	MW-20A	MW-20C	MW-20D	MW-20E	MW-30A	MW-30C	MW-30C	MW-30D	MW-30E	MW-31A	MW-31C	MW-47B	MW-47B	MW-47C	MW-47D	MW-48B	MW-48B	MW-48C	MW-48C	MW-48D
Sample Collection Date		12/19/2011	12/16/2011	12/17/2011	12/17/2011	12/17/2011	12/17/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/16/2011	12/14/2011	12/14/2011	12/15/2011	12/14/2011	12/18/2011	12/18/2011	12/18/2011	12/18/2011	12/18/2011
Operable Unit		OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Field Measurements (units)	**PRG[1]**																						
Temperature (Degrees C)	NE	12.88	9.72	8.32	10.2	11.34	11.83	12.01	10.76	10.76	11.32	11.59	9.38	10.17	10.78	10.78	10.96	9.75	13.25	13.25	13.99	13.99	13.57
pH (SU)	NE	7.13	7.72	7.11	7.20	6.92	7.68	7.32	7.89	7.89	7.18	8.00	7.51	7.4	7.74	7.74	7.25	7.69	7.05	7.05	6.87	6.87	7.43
Conductivity (μmhos/cm)	NE	1.00	0.729	0.769	0.553	0.461	0.405	0.687	0.679	0.679	0.690	0.660	0.888	0.386	0.85	0.85	0.803	0.676	0.832	0.832	0.622	0.622	0.584
Total Dissolved Oxygen (mg/L)	NE	4.05	7.11	3.34	7.24	0.0	3.56	6.52	13.14	13.14	2.91	12.2	0.48	6.30	10.5	10.5	8.49	8.65	8.75	8.75	5.55	5.55	10.81
Oxidation Reduction Poential (mV)	NE	199	-25	-49	41	-130	-77	-108	-73	-73	-173	-120	-127	-48	169	169	231	168	214	214	218	218	196
Turbidity (NTU)	NE	0.0	0.0	10.6	2.0	19.0	0.0	0.9	0.0	0.0	15.6	0.0	6.5	1.8	22.6	22.6	4.4	29.2	61.0	61.0	28.9	28.9	21.5
Volatile Organic Compounds (μg/L)																							
1,1,1-Trichloroethane	200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	0.066 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	53,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	2.4 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5.2 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane	0.05	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	NE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	75	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (methyl ethyl ketone)	4,900 [2]	5.0 U	5.0 U	5.0 U	5.0 U	**5.9**	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	34 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
4-Methyl-2-Pentanone	1,000 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	12,000 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	7 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	720 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.3**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5	**97**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**210**	1.0 U	1.0 U	1.0 U	1.0 U	**5.7**	1.0 U	**72**	**74**	**5.6**	1.0 U	**660**	**660**	1.0 U	1.0 U	1.0 U
Chlorobenzene	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane (ethyl chloride)	21,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	80	**4.6**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.1**	**1.3**	**1.4**	**1.7**	**1.8**	**10**	1.0 U	**4.7**	**4.8**	1.0 U	1.0 U	**1.8**	**1.7**	1.0 U	1.0 U	1.0 U
Chloromethane	190 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.41 [3]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	13,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	190 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (cumene)	390 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylene	10,000 [4]	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl Acetate	16,000 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	12 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	NE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	0.14	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	10,000 [4]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	100	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.41 [3]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	**5.8**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.1**	**1.1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	1,100 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

Table A4.1
Analytical Results - December 2011
Garvey Elevator Site
Hastings, NE

EPA Lab ID		5619-49	5619-50	5619-52	5619-54	5619-53	5619-55	5619-46	5619-48	5619-47
Sample Location		MW-49B	MW-49C	MW-49D	MW-50B	MW-50C	MW-50D	MW-51B	MW-51C	MW-51D
Sample Collection Date		12/19/2011	12/19/2011	12/20/2011	12/20/2011	12/20/2011	12/20/2011	12/19/2011	12/19/2011	12/19/2011
Operable Unit		OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Field Measurements (units)	**PRG[1]**									
Temperature (Degrees C)	NE	11.11	12.98	12.52	12.37	11.21	12.56	11.23	12.47	11.93
pH (SU)	NE	7.04	7.01	7.2	7.27	7.68	7.18	7.30	7.77	7.92
Conductivity (μmhos/cm)	NE	0.683	0.726	0.534	0.545	0.640	0.563	0.706	0.662	0.674
Total Dissolved Oxygen (mg/L)	NE	6.18	4.83	4.48	8.32	8.83	7.69	6.39	11.59	10.03
Oxidation Reduction Poential (mV)	NE	223	215	196	191	181	195	200	198	177
Turbidity (NTU)	NE	0.0	3.9	17.9	10.6	32.9	29.8	0.0	126	119
Volatile Organic Compounds (μg/L)										
1,1,1-Trichloroethane	200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	0.066 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	53,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	2.4 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5.2 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane	0.05	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.1**	1.0 U	1.0 U
1,2-Dichloropropane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	NE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	75	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (methyl ethyl ketone)	4,900 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	34 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
4-Methyl-2-Pentanone	1,000 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	12,000 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.2**	1.0 U	1.0 U
Bromoform	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	7 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	720 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5	**40**	1.0 U	1.0 U	**190**	1.0 U	1.0 U	**2,000**	**2.3**	1.0 U
Chlorobenzene	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane (ethyl chloride)	21,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**17**	1.0 U	1.0 U
Chloromethane	190 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.41 [3]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	13,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	190 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (cumene)	390 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylene	10,000 [4]	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl Acetate	16,000 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	12 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	NE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	0.14	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	10,000 [4]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	100	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.41 [3]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	1,100 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Notes:
Bolded results indicate a detection.
Shaded results indicate that the reported result is greater than the PRG.
[1] PRGs are EPA MCLs unless otherwise noted.
[2] EPA Regional Screening Levels for Residential Tap Water, May 2012.
[3] combined cis+trans RSL value
[4] MCL for Total Xylenes
°C - degrees Celsius
ID - identification
J - the reported value is an estimate.
MCL - maximum contaminant level
μg/L - micrograms per liter
μmhos/cm - micromohs per centimeter
mg/L - milligrams per liter
mV - millivolts
NA - not analyzed
NE - not established
NTU - nephelometric turbidity units
RSL - regional screening level
U - The analyte was not detected at or above the reporting limit.
UJ - The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.

Table A4.2
Analytical Results - March 2012
Garvey Elevator Site
Hastings, NE

EPA Lab ID		5678-32	5678-7	5678-11	5678-9	5678-8	5678-10	5678-45	5678-44	5678-34	5678-33	5678-35	5678-1	5678-2	5678-2-FD	5678-4	5678-29	5678-29-FD	5678-28	5678-5	5678-5-FD	5678-27
Sample Location		MW-1A	MW-2A	MW-3A	MW-3B	MW-3D	MW-3E	MW-4A	MW-4B	MW-5A	MW-5B	MW-5D	MW-6A	MW-6D	MW-6D	MW-6E	MW-7A	MW-7A	MW-7B	MW-8A	MW-8A	MW-9A
Sample Collection Date		03/16/2012	03/13/2012	03/14/2012	03/13/2012	03/13/2012	03/14/2012	03/18/2012	03/18/2012	03/17/2012	03/17/2012	03/17/2012	03/12/2012	03/12/2012	03/12/2012	03/13/2012	03/16/2012	03/16/2012	03/16/2012	03/13/2012	03/13/2012	03/16/2012
Operable Unit		OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Field Measurements (units)	**PRG[1]**																					
Temperature (Degrees C)	NE	23.60	19.00	10.68	16.89	18.30	13.39	15.57	17.07	14.28	14.07	16.20	18.77	14.37	14.37	11.00	24.46	24.46	25.76	19.14	19.14	25.44
pH (SU)	NE	6.90	6.69	6.91	6.49	6.74	7.89	7.40	7.37	7.07	6.88	7.03	6.94	6.62	6.62	6.42	7.10	7.10	7.35	7.11	7.11	7.44
Conductivity (μmhos/cm)	NE	638	784	1,090	937	567	635	879	849	921	1010	655	829	609	609	380	846	846	868	1240	1240	739
Total Dissolved Oxygen (mg/L)	NE	5.62	5.20	8.00	7.14	5.94	2.20	6.45	8.00	7.80	7.77	14.57	5.54	5.15	5.15	2.86	5.48	5.48	6.01	5.5	5.5	4.22
Oxidation Repuction Potential (mV)	NE	123	174	153	224	201	30	303	316	184	163	181	197	216	216	182	133	133	109	160	160	57
Turbidity (NTU)	NE	0.0	0.0	0.0	0.0	92	0.0	0.0	0.0	0.0	0.0	0.0	4.7	1.1	1.1	0.0	0.0	0.0	0.0	16.2	16.2	0.0
Volatile Organic Compounds (μg/L)																						
1,1,1-Trichloroethane	200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	0.066 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	53,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	2.4 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5.2 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane	0.05	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	NE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	75	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (methyl ethyl ketone)	4,900 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	34 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
4-Methyl-2-Pentanone	1,000 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	12,000 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	**110 J**	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	7 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon Disulfide	720 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5	1.0 U	1.0 U	**1.6**	**500**	**1.1**	1.0 U	**44**	**1100**	**4.7**	**43**	1.0 U	**3.0**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane (ethyl chloride)	21,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.7**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	190 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.41 [3]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	13,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Dibromochloromethane	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	190 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (cumene)	390 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylene	10,000 [4]	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl Acetate	16,000 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	12 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	NE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	0.14	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	10,000 [4]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	100	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.41 [3]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	1,100 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

US EPA ARCHIVE DOCUMENT

Table A4.2
Analytical Results - March 2012
Garvey Elevator Site
Hastings, NE

EPA Lab ID		5678-46	5678-47	5678-24	5678-25	5678-26	5678-22	5678-22-FD	5678-21	5678-20	5678-15	5678-16	5678-17	5678-14	5678-18	5678-19	5678-48	5678-49	5678-50	5678-36	5678-37	5678-38
Sample Location		MW-13C	MW-13E	MW-19A	MW-19C	MW-20A	MW-20C	MW-20C	MW-20D	MW-20E	MW-30A	MW-30C	MW-30D	MW-30E	MW-31A	MW-31C	MW-47B	MW-47C	MW-47D	MW-48B	MW-48C	MW-48D
Sample Collection Date		03/18/2012	03/18/2012	03/16/2012	03/16/2012	03/16/2012	03/15/2012	03/15/2012	03/15/2012	03/15/2012	03/14/2012	03/14/2012	03/14/2012	03/14/2012	03/14/2012	03/15/2012	03/18/2012	03/18/2012	03/18/2012	03/17/2012	03/17/2012	03/17/2012
Operable Unit		OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Field Measurements (units)	**PRG[1]**																					
Temperature (Degrees C)	NE	19.34	21.02	14.79	16.46	25.56	18.21	18.21	18.37	17.17	20.68	21.41	21.08	20.29	21.00	15.62	17.28	15.57	15.34	23.94	25.53	25.02
pH (SU)	NE	7.47	7.35	7.16	6.78	7.30	7.09	7.09	5.88	7.60	6.90	7.65	7.09	7.75	6.80	6.26	7.48	7.25	7.39	7.34	7.00	7.61
Conductivity (μmhos/cm)	NE	748	688	1180	861	887	581	581	512	422	777	760	771	731	884	454	904	865	741	962	767	732
Total Dissolved Oxygen (mg/L)	NE	15.42	14.40	4.44	5.61	0.57	3.90	3.90	0.0	1.79	8.24	8.86	0.47	8.55	0.0	6.42	4.53	3.06	3.78	9.82	7.20	14.44
Oxidation Repuction Potential (mV)	NE	187	200	70	109	-138	58	58	-176	26	-147	-65	-270	-117	-230	76	326	348	337	168	182	184
Turbidity (NTU)	NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	0.0	4.9	0.0	0.0	0.0	0.0	12.0	4.6	0.0
Volatile Organic Compounds (μg/L)																						
1,1,1-Trichloroethane	200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	0.066 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	53,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	2.4 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5.2 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane	0.05	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	NE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	75	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (methyl ethyl ketone)	4,900 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**5.2**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	34 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
4-Methyl-2-Pentanone	1,000 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	12,000 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	7 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	720 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.5**	1.0 U	**1.0**	1.0 U	**1.2**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5	**86**	1.0 U	**78**	1.0 U	**1.4**	1.0 U	1.0 U	1.0 U	1.0 U	**200**	**1.3**	1.0 U	1.0 U	**1.6**	1.0 U	**59**	**2.7**	1.0 U	**690**	1.0 U	1.0 U
Chlorobenzene	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane (ethyl chloride)	21,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	80	1.0 U	1.0 U	**5.3**	1.0 U	**1.8**	1.0 U	1.0 U	1.0 U	1.0 U	**5.8**	**1.5**	**2.2**	**1.8**	**11**	1.0 U	**6.0**	1.0 U	1.0 U	**1.5**	1.0 U	1.0 U
Chloromethane	190 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.41 [3]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	13,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	190 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (cumene)	390 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylene	10,000 [4]	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl Acetate	16,000 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	12 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	NE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	0.14	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	10,000 [4]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	100	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.41 [3]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	**5.7**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	1,100 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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Table A4.2
Analytical Results - March 2012
Garvey Elevator Site
Hastings, NE

EPA Lab ID		5678-38-FD	5678-57	5678-55	5678-56	5678-52	5678-53	5678-54	5678-40	5678-40-FD	5678-42	5678-43	5680-42	5680-41	5680-19	5680-14	5680-10	5680-10-FD	5680-13	5680-12	5680-36	5680-35
Sample Location		MW-48D	MW-49B	MW-49C	MW-49D	MW-50B	MW-50C	MW-50D	MW-51B	MW-51B	MW-51C	MW-51D	MW-10A	MW-10B	MW-11A	MW-12A	MW-12C	MW-12C	MW-12D	MW-14A	MW-16A	MW-16C
Sample Collection Date		03/17/2012	03/19/2012	03/19/2012	03/19/2012	03/18/2012	03/18/2012	03/18/2012	03/18/2012	03/18/2012	03/18/2012	03/18/2012	03/18/2012	03/18/2012	03/14/2012	03/14/2012	03/14/2012	03/14/2012	03/14/2012	03/13/2012	03/17/2012	03/17/2012
Operable Unit		OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Field Measurements (units)	**PRG[1]**																					
Temperature (Degrees C)	NE	25.02	14.77	12.58	13.59	18.35	17.69	17.06	16.81	16.81	17.41	18.59	15.12	14.48	15.11	15.21	15.41	15.41	13.41	22.17	14.4	13.09
pH (SU)	NE	7.61	6.98	6.87	7.23	6.82	7.47	6.99	7.43	7.43	7.78	8.10	7.37	7.35	6.67	7.00	6.94	6.94	6.95	6.71	6.99	7.06
Conductivity (μmhos/cm)	NE	732	745	876	598	796	731	663	801	801	720	731	928	844	508	973	615	615	475	680	975	831
Total Dissolved Oxygen (mg/L)	NE	14.44	7.17	7.31	4.32	10.36	10.35	7.65	12.98	12.98	18.31	16.70	6.80	6.80	4.38	5.92	5.47	5.47	3.98	3.85	6.37	6.47
Oxidation Repuction Potential (mV)	NE	184	182	176	282	212	211	216	146	146	167	172	348	325	318	301	347	347	323	282	321	327
Turbidity (NTU)	NE	0.0	0.0	0.0	1.0	3.8	37.2	30.8	0.0	0.0	10.2	87.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (μg/L)																						
1,1,1-Trichloroethane	200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	0.066 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	53,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	2.4 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5.2 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.2	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane	0.05	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	NE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	75	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (methyl ethyl ketone)	4,900 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ
2-Hexanone	34 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
4-Methyl-2-Pentanone	1,000 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ
Acetone	12,000 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	7 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	720 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5	1.0 U	**55**	1.0 U	1.0 U	**340**	**1.6**	1.0 U	**2,200**	**2,400**	1.0 U	**3.4**	1.0 U	1.0 U	1.0 U	1.0 U	**8.5**	**8.8**	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane (ethyl chloride)	21,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**14**	**14**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	190 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.41 [3]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	13,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	190 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (cumene)	390 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylene	10,000 [4]	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl Acetate	16,000 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	12 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	NE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	0.14	2.0 U	2.0 UJ	2.0 UJ	2.0 UJ	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	10,000 [4]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	100	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.41 [3]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	1,100 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

US EPA ARCHIVE DOCUMENT

Table A4.2
Analytical Results - March 2012
Garvey Elevator Site
Hastings, NE

EPA Lab ID		5680-37	5680-24	5680-24-FD	5680-38	5680-20	5680-22	5680-21	5680-31	5680-32	5680-2	5680-2-FD	5680-1	5680-16	5680-15	5680-23	5680-26	5680-28	5680-28-FD	5680-39	5680-34	5680-33
Sample Location		MW-17A	MW-17C	MW-17C	MW-17D	MW-18A	MW-18C	MW-18D	MW-41D1	MW-41D2	MW-42D	MW-42D	MW-42E	MW-43D	MW-43E	MW-44D	MW-44E	MW-45C	MW-45C	MW-45D	MW-46D1	MW-46D2
Sample Collection Date		03/17/2012	03/17/2012	03/17/2012	03/17/2012	03/15/2012	03/15/2012	03/15/2012	03/16/2012	03/16/2012	03/12/2012	03/12/2012	03/12/2012	03/14/2012	03/14/2012	03/15/2012	03/15/2012	03/17/2012	03/17/2012	03/18/2012	03/16/2012	03/16/2012
Operable Unit		OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Field Measurements (units)	**PRG[1]**																					
Temperature (Degrees C)	NE	14.59	18.83	18.83	16.69	17.47	15.85	14.34	19.43	17.76	14.72	14.72	15.25	20.23	21.60	13.40	13.98	18.89	18.89	13.92	18.83	19.14
pH (SU)	NE	7.33	7.31	7.31	7.54	6.43	6.95	7.16	6.96	7.18	7.00	7.00	7.13	6.89	7.20	7.17	7.32	7.45	7.45	7.39	6.93	7.13
Conductivity (μmhos/cm)	NE	916	582	582	309	413	737	564	728	375	527	527	431	591	445	450	370	673	673	610	625	614
Total Dissolved Oxygen (mg/L)	NE	6.10	4.50	4.50	2.99	5.22	4.22	3.16	5.59	3.27	5.77	5.77	6.82	4.61	2.83	1.79	2.53	6.45	6.45	8.15	5.06	4.54
Oxidation Repuction Potential (mV)	NE	341	338	338	315	260	275	255	282	270	287	287	252	323	315	262	271	308	308	277	267	272
Turbidity (NTU)	NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.0	72.0	72.0	62.8	0.0	0.0	2.8	0.0	11.9	11.9	0.0	0.0	11.8
Volatile Organic Compounds (μg/L)																						
1,1,1-Trichloroethane	200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	0.066 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	53,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	2.4 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5.2 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane	0.05	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	NE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	75	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (methyl ethyl ketone)	4,900 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
2-Hexanone	34 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
4-Methyl-2-Pentanone	1,000 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Acetone	12,000 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	7 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	720 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5	1.0 U	**28**	**29**	1.0 U	1.0 U	**8.7**	**28**	1.0 U	1.0 U	**38**	**39**	**54**	1.0 U	**1.9**	**19**	1.0 U	1.0 U	1.0 U	1.0 U	**530**	**280**
Chlorobenzene	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane (ethyl chloride)	21,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.5**	**1.4**
Chloromethane	190 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.41 [3]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	13,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	190 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (cumene)	390 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylene	10,000 [4]	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl Acetate	16,000 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	12 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	NE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	0.14	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	10,000 [4]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	100	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.41 [3]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	1,100 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

Table A4.2
Analytical Results - March 2012
Garvey Elevator Site
Hastings, NE

EPA Lab ID		5680-9	5680-8	5680-7	5680-30	5680-27	5680-17	5680-17-FD	5680-6	5680-5	5680-4	5678-12	5678-13
Sample Location		MW-104A	MW-104C	MW-104D	MW-105A	MW-105C	MW-105D	MW-105D	MW-106A	MW-106C	MW-106D	Rolls Old	Rolls New
Sample Collection Date		03/13/2012	03/13/2012	03/13/2012	03/16/2012	03/16/2012	03/16/2012	03/16/2012	03/13/2012	03/13/2012	03/13/2012	03/14/2012	03/14/2012
Operable Unit		OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Field Measurements (units)	**PRG[1]**												
Temperature (Degrees C)	NE	18.90	21.30	19.44	14.75	14.71	13.16	13.16	17.72	14.02	11.61	14.20	12.56
pH (SU)	NE	7.16	7.03	7.23	7.06	6.90	7.09	7.09	6.91	6.72	7.02	7.4	7.55
Conductivity (μmhos/cm)	NE	825	410	331	950	713	480	480	867	589	414	1070	513
Total Dissolved Oxygen (mg/L)	NE	5.10	3.29	2.24	6.43	5.82	4.20	4.20	6.71	4.30	3.02	7.07	11.00
Oxidation Repuction Potential (mV)	NE	308	286	297	294	287	251	251	292	308	282	77	112
Turbidity (NTU)	NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (μg/L)													
1,1,1-Trichloroethane	200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	0.066 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	53,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	2.4 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5.2 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane	0.05	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	NE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	75	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (methyl ethyl ketone)	4,900 [2]	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	34 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
4-Methyl-2-Pentanone	1,000 [2]	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
Acetone	12,000 [2]	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	7 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	720 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	**120**	**55**	**57**	1.0 U	1.0 U	1.0 U	**20**	1.0 U
Chlorobenzene	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane (ethyl chloride)	21,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	80	1.0 U	1.0 U	1.0 U	1.0 U	**1.1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	190 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.41 [3]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	13,000 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	190 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (cumene)	390 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylene	10,000 [4]	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl Acetate	16,000 [2]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	12 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	NE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	0.14	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	10,000 [4]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	100	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Tetrachloroethene	5	1.0 U	**6.8**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.41 [3]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	1,100 [2]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Notes:
Bolded results indicate a detection.
Shaded results indicate that the reported result is greater than the PRG.
[1] PRGs are EPA MCLs unless otherwise noted.
[2] EPA Regional Screening Levels for Residential Tap Water, May 2012.
[3] combined cis+trans RSL value
[4] MCL for Total Xylenes
°C - degrees Celsius
ID - identification
J - the reported value is an estimate.
MCL - maximum contaminant level
μg/L - micrograms per liter
μmhos/cm - micromohs per centimeter
mg/L - milligrams per liter
mV - millivolts
NA - not analyzed
NE - not established
NTU - nephelometric turbidity units
RSL - regional screening level
U - The analyte was not detected at or above the reporting limit.
UJ - The analyte was not detected at or above

the reporting limit. The reporting limit is an estimate.

US EPA ARCHIVE DOCUMENT

ATTACHMENT 5

FIELD SHEETS

(Electronic Form Only)

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DECEMBER 2011

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WATER LEVEL DATA

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US EPA ARCHIVE DOCUMENT

MONITOR WELL STATIC WATER LEVEL FORM

PROJECT NAME: Garvey Elevator Site DATE: 12/13/11

PROJECT NO.: EP9046.02.22.05.00.00

WATER LEVEL INDICATOR ID NO.: S/N 23409 and S/N 14389 C FIELD BOOK NO.: _____

LOCATION: ~~Utah~~ Hastings NE PAGE NO.: 71 and 72

Monitor Well Name	Date/Time	Static Water Level (feet BTOC)	Total Well Depth (ft)	Explosimeter Reading (above background)	PID Reading (above background)
MW-09A	14:46	110.44			
MW-13C	15:05	117.16			
MW-13E	15:06	116.64			
MW-19A	15:55	116.16			
MW-19C	15:55	117.01			
MW-20A	15:55	117.00			
MW-20C	15:55	122.26			
MW-20E	15:56	117.63			
MW-30A	15:56	118.20			
MW-30C	15:56	118.11			
MW-30D	15:56	118.31			
MW-30E	15:57	~~109.32~~ (S/N) 119.11			
MW-31A	15:57	118.68			
MW-31C	15:57	118.55			
MW-47B	15:00	118.07			
MW-47-C	15:01	118.49			
MW-47-D	14:59	118.10			

Note: Total well depth to be measured at time of gauging.

Comments: Water Levels From MW 19 to MW-31 taken From System's Installed transducers

Monitoring Personnel _____

US EPA ARCHIVE DOCUMENT

HGL

MONITOR WELL STATIC WATER LEVEL FORM

PROJECT NAME: Garvey Elevator Site DATE: 12-13-11

PROJECT NO.: EP9046.02.22.05.00.00

WATER LEVEL INDICATOR ID NO.: S/N 23409 and S/N 14389 FIELD BOOK NO.: _____

LOCATION: Hastings NE PAGE NO.: 71 and 72

Monitor Well Name	Date/Time	Static Water Level (feet BTOC)	Total Well Depth (ft)	Explosimeter Reading (above background)	PID Reading (above background)
MW-01A	15:50	111.29			
MW-02A	14:40	114.51			
MW-03A	15:44	120.04			
MW-03B	15:45	118.56			
MW-03D	15:46	118.93			
MW-03E MW-03 ~~E~~ D	15:47	117.87			
MW-04A	16:06	117.96			
MW-04B	16:07	117.89			
MW-05A	15:21	116.61			
MW-05B	15:22	117.72			
MW-05D	15:23	117.62			
MW-06A	14:53	117.06			
MW-06D	14:54	117.30			
MW-06E	14:52	118.30			
MW-07A	14:20	107.48			
MW-07B	14:21	108.21			
MW-~~08~~08A	14:36	125.15			

Note: Total well depth to be measured at time of gauging.

Comments: _____

Monitoring Personnel _____

US EPA ARCHIVE DOCUMENT

HGL HydroGeologic, Inc.

MONITOR WELL STATIC WATER LEVEL FORM

PROJECT NAME: Garvey Elevator Site DATE: 12/13/11

PROJECT NO.: EP9046.02.22.05.00.00

WATER LEVEL INDICATOR ID NO.: Sir 23409 and Sir 14389 FIELD BOOK NO.: _____

LOCATION: Hastings NE PAGE NO.: 71 and 72

Monitor Well Name	Date/Time	Static Water Level (feet BTOC)	Total Well Depth (ft)	Explosimeter Reading (above background)	PID Reading (above background)
MW-48 B	15:15	118.22			
MW-48 C	15:16	117.83			
MW-48 D	15:17	117.07			
MW-49 B	15:35	118.76			
MW-49 C	15:36	~~118.76~~ 117.69			
MW-49 D	15:37	117.17			
MW-50 B	15:28	117.80			
MW-50 C	15:29	118.67			
MW-50 D	15:30	117.38			
MW-51 B	15:10	118.27			
MW-51 C	15:11	119.02			
MW-51 D	15:12	117.80			

Note: Total well depth to be measured at time of gauging.

Comments: _____

Monitoring Personnel _____

US EPA ARCHIVE DOCUMENT

PURGE SHEETS

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US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/14/11

Well ID: MW-6D

Initial Static Water Level (feet btoc): 117.30

Final Water Level (feet btoc): 117.32

Purge Start Time: 10:15

Sample Time: 1050

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: Extra Volume for MS/MSD

Sample Number: 5619-1

Controller Settings: Recharge: 20 secs Discharge: 10 secs Pressure: 85 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
10:20	117.32	12.13	6.55	0.000	10.95	192	135	180	- Flow Through Cell Not Full
1030	117.32	10.46	7.30	0.578	9.17	140	0.0	100	
1035	117.32	10.61	7.27	0.562	8.53	137	0.0	100	
1040	117.32	10.75	7.29	0.545	7.55	135	0.0	100	
1045	117.32	10.80	7.35	0.541	7.24	135	0.0	100	
1050	117.32	10.95	7.41	0.541	7.28	135	0.1		

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/14/11

Well ID: MW-6A

Initial Static Water Level (feet btoc): 117.11

Final Water Level (feet btoc): 117.14

Purge Start Time: 11'10

Sample Time: 12'25

Samplers= Signatures: SA / SH

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: 5619-2-FD

Sample Number: 5619-2

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 35 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
11'15	117.14	10.84	7.65	0.556	4.80	134	5.6	120	
11'20	117.14	10.82	7.68	0.548	7.14	134	5.3	120	
11'25	117.14	10.86	7.61	0.725	8.44	136	44.6	120	
11'30	117.14	10.90	7.58	0.756	8.10	138	43.1	120	
11'35	117.14	11.02	7.60	0.802	8.40	142	39.9	120	
1140	117.14	10.83	7.62	0.814	8.30	144	35.0	120	
1145	117.14	10.32	7.64	0.817	8.53	146	30.1	120	
1150	117.14	10.11	7.65	0.817	8.50	148	25.6	120	
1155	117.14	10.01	7.67	0.818	8.44	151	20.6	120	
1200	117.14	9.46	7.67	0.819	8.51	154	17.2	120	
1205	117.14	9.07	7.68	0.820	8.74	155	12.7	120	
1210	117.14	8.91	7.66	0.820	8.75	157	9.6	120	
1215	117.14	8.93	7.66	0.820	8.52	159	8.3	120	
1220	117.14	8.79	7.66	0.821	8.48	160	6.0	120	
12'25	117.14	8.79	7.65	0.821	8.52	162	4.4	120	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 fee

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 12-14-11

Well ID: MW-6E

Initial Static Water Level (feet btoc): 118.28

Final Water Level (feet btoc): 13.31

Purge Start Time: 13:20

Sample Time: 14:15

Samplers= Signatures: SH/SA

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: none

Sample Number: 5619-4

Controller Settings: Recharge: 15 secs **Discharge:** 15 secs **Pressure:** 120 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
13:30	118.32	9.33	8.03	0.413	10.34	156	1.7	120	
1335	118.32	9.74	8.02	0.367	8.69	156	0.1	120	
1340	118.32	9.77	8.02	0.357	7.14	157	0.4	120	
1345	118.32	9.70	8.01	0.351	6.37	158	0.3	120	
1350	118.32	9.83	7.99	0.350	6.01	160	0.0	120	
1355	118.32	10.01	7.98	0.349	5.48	160	0.0	120	
1400	118.32	10.25	7.96	0.348	5.40	160	0.0	120	
1405	118.32	10.21	7.97	0.348	5.01	160	0.0	120	
1410	118.32	10.30	7.97	0.347	5.02	160	0.1	120	
1415	118.32	10.38	7.96	0.347	5.03	161	0.0	120	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/14/11

Well ID: MW-47B

Initial Static Water Level (feet btoc): 118.17

Final Water Level (feet btoc): 118.18

Purge Start Time: 14:50

Sample Time: 15:30

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: ~~MS/MSD~~ SH: 12/14/11 5619-5-FD

Sample Number: 5619-5

Controller Settings: Recharge: 10 secs Discharge: 10 secs Pressure: 70 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
14:54	118.19	10.52	7.79	0.743	11.16	168	53.2	100	
15:00	118.19	10.72	7.74	0.848	10.97	170	40.0	100	
15:05	118.19	10.79	7.75	0.852	10.83	169	37.6	100	
15:10	118.19	10.87	7.74	0.853	10.83	169	32.5	100	
15:15	118.19	10.80	7.74	0.852	10.67	169	27.1	100	
1520	118.19	10.81	7.74	0.853	10.56	169	24.2	100	
1525	118.19	10.82	7.74	0.851	10.51	169	22.6	100	
1530	118.19	10.78	7.74	0.850	10.50	169	22.6	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/14/11

Well ID: MW-47D

Initial Static Water Level (feet btoc): 118.17

Final Water Level (feet btoc): 118.19

Purge Start Time: 15:45

Sample Time: 17:40

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-7

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 90 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
15:50	118.20	11.20	7.84	0.621	9.03	166	6.4	200	
1555	118.20	11.35	7.79	0.626	8.44	166	2.3	200	
16:00	118.20	11.50	7.75	0.624	6.89	164	2.3	200	
16:05	118.20	11.49	7.75	0.624	6.77	164	3.1	200	
16:10	118.20	11.47	7.74	0.623	6.14	163	4.5	200	
16:15	118.20	11.50	7.74	0.623	5.80	163	4.7	200	
1620	118.20	11.49	7.74	0.624	5.70	163	7.5	200	Re-Suspend Purge Depository pump
16:35	Resume	purging	@ 120	mL/min				120	
16:40	118.20	9.86	7.81	0.642	3.82	162	3.5	120	
16:45	118.20	9.89	7.78	0.650	4.57	163	115	120	
16.50	118.20	10.13	7.71	0.665	4.89	165	260	120	
1655	118.20	10.19	7.68	0.669	4.79	166	224	120	
1700	118.20	10.29	7.65	0.670	8.25	167	187	120	
1705	118.20	10.26	7.64	0.669	8.29	128	168	120	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/14/11

Well ID: MW-47D - Cont.

Initial Static Water Level (feet btoc): 118.17

Final Water Level (feet btoc): 118.19

Purge Start Time: ~~17~~ 15:45

Sample Time: 17:48

Samplers= Signatures: SH/SH

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-7

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 90 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1710	118.20	10.14	7.64	0.671	8.30	168	101	120	
1715	118.21	10.13	7.64	0.673	8.58	168	71.8	120	
1720	118.21	10.17	7.64	0.674	8.54	168	68.9	120	
1725	118.21	10.08	7.64	0.676	8.60	168	50.2	120	
1730	118.21	10.01	7.65	0.675	8.59	168	43.8	120	
1735	118.21	9.99	7.65	0.675	8.62	168	40.1	120	
1740	118.21	9.94	7.65	0.674	8.58	168	31.8	120	
1745	118.21	9.86	7.66	0.674	8.64	168	30.2	120	
1748	118.21	9.75	7.69	0.674	8.65	168	29.2	120	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

HGL CDM

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/15/11

Well ID: MW-47C

Initial Static Water Level (feet btoc): 118.76

Final Water Level (feet btoc): 118.77

Purge Start Time: 0835

Sample Time: 09:25

Samplers= Signatures: SH/SH

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-8

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 8 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
0840	118.79	10.64	7.23	0.768	8.70	242	226	200	
0845	118.79	10.85	7.13	0.791	8.66	~~107~~ 240	107	200	
0850	118.79	10.91	7.14	0.795	8.61	238	53.1	200	
0855	118.79	10.96	7.15	0.798	8.60	236	28.9	200	
0900	118.79	10.97	7.17	0.800	8.58	235	19.3	200	
0905	118.79	10.98	7.19	0.802	8.56	235	12.0	200	
0910	118.79	10.95	7.21	0.803	8.53	232	9.2	200	
0915	118.79	10.99	7.21	0.803	8.52	231	6.1	200	
0920	118.79	10.99	7.23	0.803	8.51	231	5.1	200	
0925	118.79	10.96	7.25	0.803	8.49	231	4.4	200	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/15/11

Well ID: MW-9A

Initial Static Water Level (feet btoc): 110.72

Final Water Level (feet btoc): ~~110.72~~ 110.69 (11:55 SH)

Purge Start Time: 10:05

Sample Time: 10:35

Samplers= Signatures: SH/SH

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: none

Sample Number: 5619-9

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 85 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
10.10	110.72	10.08	7.48	0.866	9.15	213	15.2	170	
10:15	110.72	10.26	7.50	0.915	9.10	213	14.5	170	
10:20	110.72	16.33	7.52	0.920	9.09	214	13.7	170	
1025	110.72	16.32	7.54	0.931	9.09	214	10.7	170	
1030	110.72	10.32	7.56	0.935	9.10	215	10.3	170	
1035	110.72	10.35	7.56	0.937	9.08	216	10.0	170	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 12/15/11

Well ID: MW-7A

Initial Static Water Level (feet btoc): 107.48

Final Water Level (feet btoc): 107.64

Purge Start Time: 11:30

Sample Time: 12:00

Samplers= Signatures: SH/SA

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-10

Controller Settings: Recharge: 10 secs **Discharge:** 10 secs **Pressure:** 60 psi

Cycles Per Minute: ~~60~~ 3 (SH)

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
~~11:40~~ 1135	107.66	7.85	7.81	0.688	10.99	220	1.4	100	
~~11:45~~ 1140	107.68	7.96	7.61	0.759	10.90	225	2.1	100	
~~11:50~~ 1145	107.68	7.93	7.60	0.771	10.94	225	2.4	100	
1150	107.68	7.95	7.59	0.772	10.92	225	2.5	100	
1155	107.68	8.20	7.53	0.780	10.75	225	3.2	100	
1200	107.68	8.24	7.53	0.782	10.77	226	3.3	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12-15-11

Well ID: MW-7B

Initial Static Water Level (feet btoc): 108.26

Final Water Level (feet btoc): 108.24

Purge Start Time: 12:20

Sample Time: 12:50

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: none

Sample Number: 5619-11

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: ~~70~~ 75 psi

Cycles Per Minute: ~~56~~ 75 / 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
12:25	108.26	8.73	~~8.58~~	0.818	8.99	225	9.8	180	
12:30	108.26	9.33	7.51	0.819	8.64	226	7.4	180	
12:35	108.26	9.47	7.50	0.819	8.58	226	2.7	180	
12:40	108.26	9.76	7.48	0.818	8.63	225	2.3	180	
1245	108.26	9.90	7.48	0.816	8.62	224	2.7	180	
1250	108.26	10.01	7.48	0.816	8.58	224	2.4	180	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/15/11

Well ID: MW-1A

Initial Static Water Level (feet btoc): 111.41

Final Water Level (feet btoc): 111.42

Purge Start Time: 13:30

Sample Time: 14:15

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-12

Controller Settings: Recharge: 11 secs Discharge: 9 secs Pressure: 65 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
13:35	111.42	9.05	7.69	0.697	10.04	223	2.6	100	
13:40	111.42	9.37	7.61	0.727	9.58	225	5.4	100	
13:45	111.42	9.66	7.57	0.736	9.33	226	10.8	100	
13:50	111.42	9.77	7.53	0.739	~~9.11~~ 9.11	226	11.0	100	
13:55	111.42	9.88	7.51	0.739	~~8.96~~ 8.96	226	10.7	100	
14:00	111.42	9.78	7.52	0.739	8.98	226	7.8	100	
14:05	111.42	9.83	7.50	0.739	8.97	227	6.7	100	
14:10	111.42	9.75	7.51	0.739	8.81	227	6.6	100	
14:15	111.42	9.77	7.50	0.740	8.88	227	6.8	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/15/11

Well ID: MW-08A

Initial Static Water Level (feet btoc): 125.30

Final Water Level (feet btoc): 125.33

Purge Start Time: 15:25

Sample Time: 15:55

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-13

Controller Settings: Recharge: 11 secs Discharge: 9 secs Pressure: 70 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
15:30	125.35	8.57	7.74	1.11	8.67	231	20.3	150	
15:35	125.35	9.16	7.69	1.13	8.56	230	10.0	150	
15:40	125.35	10.00	7.63	1.13	8.23	230	5.4	150	
15:45	125.35	10.19	7.61	1.13	8.38	229	3.4	150	
15:50	125.35	10.36	7.65	1.13	8.25	226	2.2	150	
15:55	125.35	10.42	7.64	1.13	8.20	226	4.4	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 12/13/11

Well ID: MW-02A

Initial Static Water Level (feet btoc): 114.70

Final Water Level (feet btoc): 114.71

Purge Start Time: 16:30

Sample Time: 17:20

Samplers= Signatures: SH/SA

OVM: FID G PID G **In Casing (ppm): (Initial)** Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-14

Controller Settings: Recharge: 10 **secs Discharge:** 90 **secs Pressure:** ~~60~~ 50 **psi**

Cycles Per Minute: ~~60~~ 3 SH

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
16:35	114.73	8.97	7.74	1.14	~~8~~.23	229	3.7	100	
16:40	114.73	7.97	7.96	0.876	10.30	221	3.1	100	
16:45	114.73	~~8.18~~ 8.13	7.77	0.788	9.49	230	3.9	100	
16:50	114.73	8.33	7.64	0.765	8.96	236	8.5	100	
1655	114.73	8.47	7.54	0.743	8.56	237	10.1	100	
1700	114.73	8.51	7.52	0.734	8.22	238	10.0	100	
1705	114.73	8.40	7.50	0.731	~~8~~.27	238	7.3	100	
1710	114.73	8.45	7.49	0.730	7.06	238	7.0	100	
1715	114.73	8.39	7.51	0.728	6.99	238	6.5	100	
1720	114.73	8.29	7.52	0.728	6.98	238	6.5	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/16/11

Well ID: MW-31A

Initial Static Water Level (feet btoc): N/A

Final Water Level (feet btoc): N/A

Purge Start Time: 08:55

Sample Time: 10:05

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None.

Sample Number: 5619-16

Controller Settings: Recharge: 9 secs Discharge: 6 secs Pressure: 75 psi

Cycles Per Minute: 4

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
0900	-	15.68	7.35	0.761	8.23	-72	2.3	100	
0905	-	13.97	7.25	0.782	7.94	-73	4.8	100	
0910	-	12.82	7.29	0.792	7.84	-84	11.6	100	
0915	-	12.16	7.34	0.800	7.71	-95	13.1	100	
0920	-	10.66	7.31	0.831	8.02	-98	15.2	80	increased discharged time
0925	-	9.41	7.20	0.855	1.63	-103	16.4	100	8 recharge 7 Discharge
0930	-	9.66	7.20	0.884	1.36	-106	12.8	100	
0935	-	9.30	7.36	0.888	1.26	-111	8.8	100	
0940	-	9.02	7.44	0.888	0.82	-116	6.9	100	
0945	-	9.17	7.45	0.886	0.59	-120	6.6	100	
0950	-	9.31	7.47	0.885	0.52	-123	6.5	100	
0955	-	9.39	7.48	0.885	0.47	-125	6.3	100	
10:00	-	9.39	7.50	0.886	0.45	-126	6.4	100	
10:05	-	9.38	7.51	0.888	0.48	-127	6.5		

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 12/16/11

Well ID: MW-31C

Initial Static Water Level (feet btoc): N/A

Final Water Level (feet btoc): N/A

Purge Start Time: 1020

Sample Time: 1100

Samplers= Signatures: SA/SH

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-17

Controller Settings: Recharge: 8 secs **Discharge:** 7 secs **Pressure:** 75 psi

Cycles Per Minute: 4

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1025	–	9.07	7.22	0.472	4.67	-107	2.5	120	Hydrogen sulfide odor?
1030	–	9.33	7.26	0.422	5.78	-96	2.0	120	
1035	–	9.47	7.32	0.395	6.03	-82	1.4	120	
1040	–	9.71	7.33	0.392	6.08	-76	1.8	120	
1045	–	9.94	7.35	0.388	6.19	-67	1.9	120	
1050	–	10.06	7.38	0.388	6.28	-55	2.0	120	
1055	–	10.11	7.39	0.386	6.25	-50	2.0	120	
1100	–	10.17	7.40	0.384	6.30	-48	1.8	120	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12-16-11

Well ID: MW-30A

Initial Static Water Level (feet btoc): —

Final Water Level (feet btoc): —

Purge Start Time: 11:25

Sample Time: 1201

Samplers= Signatures: EH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: none

Sample Number: 5619-18

Controller Settings: Recharge: 14 secs Discharge: 11 secs Pressure: 75 psi

Cycles Per Minute: 7 5 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
11:30	—	9.97	7.32	~~0.685~~ 0.680	5.87	-112	10.2	110	Hydrogen Sulfide odor.?
1135	-	10.60	7.32	~~0.681~~ 0.681	5.79	-114	7.3	110	
1140	-	11.49	7.29	0.685	6.00	-114	7.3	110	
1145	-	12.13	7.27	0.681	5.95	-113	4.8	110	
1150	-	12.33	7.29	0.684	6.50	-111	0.8	110	
1155	—	12.29	7.30	0.686	6.53	-109	1.6	110	
1200	-	12.01	7.32	0.687	6.52	-108	0.9	110	
~~1208~~ 1211									

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/16/11

Well ID: MW-30C

Initial Static Water Level (feet btoc): —

Final Water Level (feet btoc): —

Purge Start Time: 12:15

Sample Time: 1300

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: 5619-22-FD

Sample Number: 5619-22

Controller Settings: Recharge: 18 secs Discharge: 12 secs Pressure: 75 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
12:20	—	10.12	7.14	0.676	9.14	-154	11.8	100	Hydrogen Sulfide odor ?
12:25	—	10.31	7.26	0.682	9.69	-150	12.0	100	
12:30	—	10.76	7.48	0.681	10.72	-133	0.0	100	
12:35	—	10.86	7.56	0.680	10.99	-121	0.0	100	
12:40	—	10.91	7.65	0.679	11.52	-106	0.0	100	
1245	—	11.10	7.72	0.675	11.59	-88	0.0	100	
1250	—	11.14	7.80	0.675	13.59	-86	0.0	100	
1255	—	11.03	7.84	0.678	13.48	-76	0.0	100	
1300	—	10.76	7.89	0.679	13.14	-73	0.0	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12-16-11

Well ID: MW-30-D

Initial Static Water Level (feet btoc): —

Final Water Level (feet btoc): —

Purge Start Time: 13:10

Sample Time: 1350

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: Extra Volume For MS/MSD

Sample Number: 5619-19

Controller Settings: Recharge: 16 secs Discharge: 14 secs Pressure: 2 psi

Cycles Per Minute: 85

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
13:15	—	10.49	7.19	0.730	1.52	-162	23.6	160	Hydrogen Sulfide odor
13:20	—	10.61	7.01	0.724	0.12	-162	19.8	160	
13:25	—	10.94	7.04	0.704	0.50	-179	14.7	160	
13:30	—	10.98	7.07	0.698	0.79	-179	13.3	160	
1335	—	11.06	7.11	0.695	1.01	-177	11.8	160	
1340	—	11.12	7.14	0.692	2.89	-175	15.1	160	
1345	—	11.26	7.19	0.691	2.92	-175	15.2	160	
1350	—	11.32	7.18	0.690	2.91	-173	15.6	160	Appeared Hydrogen Sulfide was coming out of Solution

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12-16-11

Well ID: MW-30 E

Initial Static Water Level (feet btoc): —

Final Water Level (feet btoc): —

Purge Start Time: 14:50

Sample Time: 15:30

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-20

Controller Settings: Recharge: 11 secs Discharge: 9 secs Pressure: 90 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
14:55	—	11.05	7.31	~~13~~ 0.674	10.48	-137	0.0	150	Hydrogen sulfide odor
15:00	—	11.05	7.75	0.669	11.53	-128	0.0	150	
1505	—	11.17	7.72	0.668	12.25	-125	0.0	150	
1510	—	11.52	7.80	0.662	11.83	-125	0.0	150	
1515	—	11.43	7.86	0.661	11.99	-124	0.0	150	
1520	—	11.50	7.92	0.661	12.20	-123	0.0	150	
1525	—	11.52	7.98	0.662	12.21	-121	0.0	150	
1530	—	11.59	8.00	0.660	12.20	-120	0.0	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 12/16/11

Well ID: MW-19C

Initial Static Water Level (feet btoc): NA

Final Water Level (feet btoc): NA

Purge Start Time: 16:00

Sample Time: 16:30

Samplers= Signatures: SH/SA

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: none

Sample Number: 5619-21

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 75 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
16:05	–	10.24	7.97	0.716	7.65	-81	0.0	120	
1610	–	10.15	7.89	0.723	7.15	-67	0.0	120	
1615	–	9.96	7.82	0.726	7.10	-49	0.0	120	
1620	–	9.79	7.79	0.727	7.09	-35	0.0	120	
1625	–	9.78	7.75	0.727	7.11	-29	0.0	120	
1630	–	9.72	7.72	0.729	7.11	-25	0.0	120	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 12/17/11

Well ID: MW 20 A

Initial Static Water Level (feet btoc): N/A

Final Water Level (feet btoc): N/A

Purge Start Time: 0915

Sample Time: 09:40

Samplers= Signatures: SA/SH

OVM: FID G PID G **In Casing (ppm): (Initial)** Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-24

Controller Settings: Recharge: 10 **secs Discharge:** 10 **secs Pressure:** 65 **psi**

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
0920	-	8.79	7.39	0799	3.91	-19	8.1	75	started at 0 psi.
0925	-	8.64	7.06	0.778	3.34	-45	11.8	75	walked it up 5 psi every
0930	-	8.53	7.04	0.775	3.25	-49	13.1	75	2-3 cycles best flow
0935	-	8.29	7.04	0.773	3.28	-50	12.9	75	is 75 mL/min
0940	-	8.29	7.08	0.771	3.30	-56	10.5	75	
0945	-	8.30	7.10	0.770	3.32	-49	10.6	75	
0950	-	8.32	7.11	0.769	3.34	-49	10.6	75	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12-17-11

Well ID: MW-20 C

Initial Static Water Level (feet btoc): -

Final Water Level (feet btoc): -

Purge Start Time: 10:10

Sample Time: 10:45

Samplers= Signatures: SH/SH

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: ~~SG~~ SH 12-17-11, None

Sample Number: 5619-25

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 75 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
10:15	-	8.42	7.13	0.594	6.99	-24	9.0	200	
1020	-	8.70	7.11	0.580	7.36	-7	8.8	200	
1025	-	8.92	7.11	0.567	7.49	14	8.1	200	
1030	-	9.31	7.13	0.563	7.40	27	9.7	200	
1035	-	9.54	7.15	0.559	7.31	33	9.1	200	
1040	-	9.84	7.17	0.558	7.28	36	3.0	200	
1045	-	10.20	7.20	0.553	7.24	41	2.0	200	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12-17-11

Well ID: MW-20B

Initial Static Water Level (feet btoc): N/A

Final Water Level (feet btoc): N/A

Purge Start Time: 10:50

Sample Time: 11:20

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-26

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 85 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
10:55	—	10.43	7.09	0.471	0.51	-90	8.8	200	
1100	-	10.56	6.94	0.470	0.89	-114	21.9	202	
1105	-	10.62	6.90	0.470	0.09	-120	26.6	200	
1110	-	10.74	6.90	0.469	0.00	-124	20.8	200	
1115	-	10.98	6.90	0.463	0.0	-128	19.5	200	
1120	-	11.34	6.92	0.461	0.0	-130	19.0	200	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/17/11

Well ID: MW-20E

Initial Static Water Level (feet btoc): —

Final Water Level (feet btoc): —

Purge Start Time: 11:25

Sample Time: 12:05

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-27

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 100 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
11:30	—	11.14	7.00	0.448	0.81	-120	16.2	200	
11:35	—	11.28	7.27	0.423	3.27	-105	16.2	200	
11:40	—	11.33	7.30	0.422	3.42	-104	16.0	200	
11:45	—	11.44	7.40	0.420	3.60	-99	2.9	200	
11:50	—	11.48	7.50	0.418	3.67	-93	~~10.4~~ 0.0	200	
11:55	—	11.52	7.58	0.414	3.64	-87	0.0	200	
12:00	—	11.62	7.62	0.410	3.62	~~-82~~ -82	0.0	200	
12:05	—	11.83	7.68	0.405	3.56	-77	0.0	200	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/17/11

Well ID: MW-3A

Initial Static Water Level (feet btoc): 120.23

Final Water Level (feet btoc): 120.25

Purge Start Time: 12:50

Sample Time: 13:50

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NONE

Sample Number: 5619-28

Controller Settings: Recharge: 11 secs Discharge: 9 secs Pressure: 70 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
12:54	120.27	12.35	7.89	0.878	9.85	5	101	100	
13:00	120.77	12.10	7.58	0.938	8.29	28	142	100	
1305	120.77	12.17	7.48	0.947	8.13	38	94.1	100	
1310	120.77	12.46	7.39	0.955	7.92	44	50.1	100	
1315	120.77	12.54	7.37	0.959	7.92	45	33.3	100	
1320	120.77	12.76	7.33	0.958	7.89	49	21.9	100	
1325	120.77	12.87	7.31	0.952	7.92	51	17.3	100	
1330	120.77	12.78	7.30	0.948	7.99	54	13.4	100	
1335	120.77	12.64	7.32	0.945	7.98	55	10.1	100	
1340	120.77	12.63	7.32	0.939	7.94	57	7.4	100	
1345	120.77	12.57	7.32	0.934	7.90	60	7.8	100	
1350	120.77	12.50	7.31	0.931	7.90	61	7.2	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/17/11

Well ID: MW-3B

Initial Static Water Level (feet btoc): 118.78

Final Water Level (feet btoc): 118.94

Purge Start Time: 14:05

Sample Time: 14:50

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: 5619-29-FD

Sample Number: 5619-29

Controller Settings: Recharge: 13 secs Discharge: 17 secs Pressure: 65 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
14:10	118.82	12.57	7.48	0.830	8.21	55	4.3	100	
14:15	118.86	12.25	7.44	0.833	7.81	62	5.3	100	
14:20	118.86	12.24	7.40	0.832	7.72	66	5.4	100	
14:25	118.86	12.22	7.37	0.831	7.69	69	6.3	100	
14:30	118.86	12.00	7.35	0.833	7.70	72	15.2	100	
14:35	118.94	11.81	7.31	0.837	7.48	75	17.5	100	
14:40	118.94	11.84	7.30	0.837	7.49	77	15.1	100	
14:45	118.94	11.94	7.40	0.838	7.64	78	15.4	100	
14:50	118.96	11.95	7.26	0.838	7.33	80	15.3	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/17/11

Well ID: MW-3E

Initial Static Water Level (feet btoc): 117.96

Final Water Level (feet btoc): 117.94

Purge Start Time: 15:05

Sample Time: 15:45

Samplers= Signatures: SH/SH

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-31

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 120 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
15:10	117.98	12.01	7.81	0.533	9.02	-26	6.8	200	
15:15	117.98	12.03	7.83	0.545	9.02	-17	4.8	200	
1520	117.98	12.01	7.89	0.556	8.79	6.	5.5	200	
1525	117.98	12.07	7.95	0.559	8.39	26	5.8	200	
1530	117.98	12.06	7.95	0.560	8.38	27	5.5	200	
1535	117.98	12.22	7.97	0.561	8.26	32	1.6	200	
1540	117.98	12.28	7.99	0.563	8.03	37	2.7	200	
1545	117.98	12.38	8.01	0.564	7.96	40	1.8	200	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/17/11

Well ID: MW-3D

Initial Static Water Level (feet btoc): 119.03

Final Water Level (feet btoc): 119.03

Purge Start Time: 15:55

Sample Time: 16:45

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-32

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 10 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
16:00	119.04	12.23	8.30	0.541	8.08	44	5.3	120	
1605	119.04	12.64	7.90	0.591	7.10	63	3.1	120	
1610	119.04	12.02	7.77	0.605	6.95	68	4.3	120	
1615	119.04	11.54	7.66	0.608	6.69	71	0.7	120	
1620	119.04	12.25	7.54	0.588	6.56	73	2.3	120	
1625	119.04	12.47	7.50	0.571	6.56	75	3.7	120	
1630	119.04	12.25	7.46	0.553	6.70	77	6.2	120	
1635	119.04	11.90	7.46	0.544	6.78	80	3.8	120	
1640	119.04	12.18	7.44	0.538	6.64	81	4.1	120	
16:45	119.04	12.42	7.41	0.536	6.67	82	4.0	120	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

LOW-FLOW GROUNDWATER SAMPLING LOG

SH 12-18-11

Site Name: Garvey Elevator Site Date: 12/18/11

Well ID: ~~AAA-4B~~ MW-4B

Initial Static Water Level (feet btoc): 117.82

Final Water Level (feet btoc): 117.83

Purge Start Time: 0840

Sample Time: 10:04

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: Extra Volume for MS/MSD

Sample Number: 5619-33

Controller Settings: Recharge: 11 secs Discharge: 9 secs Pressure: 75 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
0845	117.83	16.11	7.07	0.885	8.55	218	660	150	
0850	117.83	15.51	7.05	0.782	7.77	216	586	150	
0855	117.83	14.89	7.07	0.736	7.57	215	361	150	
0900	117.83	14.40	7.04	0.726	7.54	215	297	150	
0905	117.83	13.01	7.04	0.790	7.74	213	283	150	
0910	117.83	12.55	7.04	0.748	8.09	213	262	150	
0915	117.83	12.37	7.04	0.742	8.21	212	292	150	
0920	117.83	11.85	7.04	0.741	8.22	213	202	150	
0925	117.83	11.87	7.03	0.741	8.20	213	169	150	
0930	117.83	12.18	7.06	0.735	8.20	212	134	150	
0935	117.83	12.30	7.04	0.740	8.41	212	101	150	
0940	117.83	11.90	7.02	0.789	9.10	212	97	150	
0945	117.83	12.28	7.01	0.783	8.95	211	69.3	150	
0950	117.83	12.44	7.01	0.790	8.91	211	57.0	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/18/11

Well ID: MW-4B - cont.

Initial Static Water Level (feet btoc): 117.82

Final Water Level (feet btoc): 117.83

Purge Start Time: 0940

Sample Time: 10:05

Samplers= Signatures: SA/SH

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: Extra Volume for MS/MSD

Sample Number: 5619-33

Controller Settings: Recharge: 11 secs Discharge: 9 secs Pressure: 75 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
0955	117.83	12.74	7.00	0.777	8.44	212	47.1	150	
1001	117.83	12.74	7.01	0.775	8.17	212	47.0	150	
1005	117.83	12.62	7.01	0.775	8.15	212	47.0	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/18/11

Well ID: MW-4A

Initial Static Water Level (feet btoc): 117.99

Final Water Level (feet btoc): 118.00

Purge Start Time: 10:25

Sample Time: 11:15

Samplers= Signatures: SA / SH

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-34

Controller Settings: Recharge: 23 secs Discharge: 7 secs Pressure: 75 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
10:30	118.01	12.99	7.02	0.767	8.07	213	39.7	100	
10:35	118.01	13.03	7.04	0.758	7.30	213	35.4	100	
10:40	118.01	13.15	7.04	0.759	7.37	213	36.9	100	
10:45	118.01	13.09	7.05	0.758	7.30	213	37.9	100	
10:50	118.01	13.24	7.05	0.758	7.25	213	37.5	100	
10:55	118.01	13.37	7.04	0.768	7.22	213	37.2	100	Cleaned out flowthrough cell
11:00	Cleaned out flow through cell								
11:05	118.01	12.71	7.08	0.722	6.03	193	27.2	100	
11:10	118.01	12.70	7.07	0.724	6.08	193	26.8	100	
11:15	118.01	12.71	7.06	0.727	6.01	195	26.3	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/18/11

Well ID: MW-5B

Initial Static Water Level (feet btoc): 117.71

Final Water Level (feet btoc): _____

Purge Start Time: 11:35

Sample Time: 12:05

Samplers= Signatures: SH/SR

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None.

Sample Number: 5619-35

Controller Settings: Recharge: 11 secs Discharge: 9 secs Pressure: SH 375 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
11:40	117.74	13.81	8.47	0.800	8.43	147	5.3	150	
11:45	117.74	13.75	8.03	0.832	6.41	156	5.2	150	
11:50	117.74	13.74	7.36	0.842	5.94	193	4.5	150	
11:55	117.74	13.72	6.97	0.846	5.49	206	4.0	150	
12:00	117.74	13.71	6.97	0.847	5.43	205	4.0	150	
12:04	117.74	13.71	6.96	0.847	5.65	205	3.6	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

HGL CDM

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/18/11

Well ID: MW-5A

Initial Static Water Level (feet btoc): 116.61

Final Water Level (feet btoc): 116.61

Purge Start Time: 12:15

Sample Time: 1300

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-36

Controller Settings: Recharge: 11 secs Discharge: 9 secs Pressure: 65 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
12:20	116.62	~~14.17~~	7.60	0.729	7.44	175	81.2	140	
1225	116.62	~~14.17~~	7.22	0.759	6.79	199	80.7	140	
1230	116.62	14.06	7.04	0.767	6.51	205	75.9	140	
1235	116.62	14.11	7.02	0.774	6.04	206	67.3	140	
1240	116.62	14.18	7.02	0.773	5.93	206	49.4	140	
1245	116.62	14.17	7.01	0.774	5.82	208	41.3	140	
1250	116.62	14.16	7.02	0.774	8.78	209	33.1	140	
1255	116.62	14.16	7.01	0.774	8.60	209	33.2	140	
1300	116.62	14.11	7.02	0.774	8.61	209	34.1	140	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 12/18/2011

Well ID: L MW-48B

Initial Static Water Level (feet btoc): 118.20

Final Water Level (feet btoc): 118.29

Purge Start Time: 13:35

Sample Time: 14:40

Samplers= Signatures: SH/SH

OVM: FID G PID G **In Casing (ppm): (Initial)** Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: 5619-38FD

Sample Number: 5619-38

Controller Settings: Recharge: 11.5 **secs Discharge:** 8.5 **secs Pressure:** 70 **psi**

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
13:40	118.31	13.32	7.36	0.794	9.80	201	210	140	
13:45	118.31	13.28	7.32	0.802	9.72	200	142	140	
1350	118.31	13.04	7.19	0.818	9.05	204	149	140	
1355	118.31	13.16	7.11	0.824	8.91	208	126	140	
1400	118.31	13.16	7.11	0.827	8.98	208	116	140	
1405	118.31	13.19	7.09	0.828	8.82	210	110	140	
1410	118.31	13.19	7.08	0.830	8.84	211	109	140	
1415	118.31	13.34	7.07	0.832	8.90	211	92.4	140	
1420	118.31	13.31	7.07	0.833	8.79	212	83.1	140	
1425	118.31	13.49	7.06	0.833	8.70	212	75.9	140	
14:30	118.31	13.40	7.05	0.834	8.87	213	65.4	140	
14:35	118.31	13.28	7.05	0.834	8.88	213	65.9	140	
14:40	118.31	13.25	7.05	0.832	8.75	214	61.0	140	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

HGL CDM

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 12/18/11

Well ID: MW-48D

Initial Static Water Level (feet btoc): 117.07

Final Water Level (feet btoc): 117.08

Purge Start Time: 14:50

Sample Time: 16:05

Samplers= Signatures: SH/SA

OVM: FID G PID G **In Casing (ppm): (Initial)** Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None.

Sample Number: 5619-37

Controller Settings: Recharge: 15 **secs Discharge:** 15 **secs Pressure:** 90 **psi**

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
14:55	117.08	12.95	7.40	0.732	9.21	197	32.5	200	
1500	117.08	12.92	7.51	0.659	9.40	194	73.5	200	
15:04	117.08	12.93	7.47	0.655	9.55	198	59.3	200	
15:10	117.08	12.93	7.45	0.649	9.83	200	49.8	200	
15:15	117.08	12.91	7.42	0.641	9.99	203	40.6	200	
15:20	117.08	12.96	7.42	0.639	10.17	203	42.9	200	
15:25	117.08	12.99	7.43	0.633	10.36	204	47.6	200	@ 1550 cleared Flow
1530	117.08	13.02	7.43	0.631	10.70	204	54.6	200	Through cell - Possible
1535	117.08	13.02	7.42	0.635	10.89	205	74.1	200	weep back from purge
1540	117.08	13.02	7.43	0.632	10.85	205	68.2	200	Tank.
1545	117.08	13.06	7.43	0.632	11.22	205	78.6	200	~~SB~~ Sample
1555	117.08	13.40	7.43	0.582	11.27	197	20.7	200	
1600	117.08	13.45	7.41	0.580	10.99	196	21.3	200	
1605	117.08	13.57	7.43	0.584	10.81	196	21.5	200	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/18/2011

Well ID: ~~MW-48~~ MW-48C (SH 12-18-11)

Initial Static Water Level (feet btoc): 117.77

Final Water Level (feet btoc): 117.78

Purge Start Time: 16:15

Sample Time: 17:00

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: ~~MW-48C~~ (SH 12-18-11) 5619-40 FD

Sample Number: 5619-40

Controller Settings: Recharge: 11 secs Discharge: 9 secs Pressure: 77 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
16:20	117.78	13.73	7.43	0.601	9.72	193	26.0	150	
1625	117.78	13.75	7.82	0.617	9.17	188	28.2	150	
1630	117.78	13.75	7.05	0.617	8.20	214	28.6	150	
1635	117.78	13.80	6.93	0.620	7.55	218	28.1	150	
1640	117.78	13.91	6.89	0.623	6.86	218	28.7	150	
1645	117.78	13.93	6.89	0.625	6.31	218	28.7	150	
16:50	117.78	13.93	6.88	0.624	5.99	218	29.2	150	
16:55	117.78	13.97	6.87	0.623	5.72	218	29.1	150	
17:00	117.78	13.99	6.87	0.622	5.55	218	28.9	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 12/ /11 **OVM:** FID G PID G **In Casing (ppm): (Initial)** Not Applicable **(Vented to)** atmosphere

Well ID: MW 19A **Purging/Sampling Device:** QED Bladder Pump/compressed nitrogen

Initial Static Water Level (feet btoc): — **Analytical Parameters:** LDL VOCs

Final Water Level (feet btoc): — **QC Samples Collected:** None

Purge Start Time: 8:20 **Sample Number:** 5619-42

Sample Time: 8:50 **Controller Settings: Recharge:** 10 **secs Discharge:** 10 **secs Pressure:** 75 **psi**

Samplers= Signatures: SH/SA **Cycles Per Minute:** 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
8:25	—	18.25	~~8.41~~	0.523	4.12	217	9.8	100	~~12, 8, 3, 65 PSI Start~~
8:30	—	13.30	7.13	1.01	1.98	212	2.6	100	Begin Purge @ 0 PSI
8:35	—	12.97	7.12	1.00	3.00	205	0.4	100	moving up 5 PSI Per Cycle
8:40	—	12.86	7.12	1.00	3.84	204	0.0	100	and increasing discharge
8:45	—	12.80	7.12	1.00	3.84	202	0.0	100	Time + 0.5 sec Per Cycle
8:50	—	12.88	7.13	1.00	4.05	199	0.0	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12-19-11

Well ID: MW-5D

Initial Static Water Level (feet btoc): 117.78

Final Water Level (feet btoc): 117.70

Purge Start Time: 9:20

Sample Time: 09:50

Samplers= Signatures: SH/SM

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: none

Sample Number: 5619-43

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 90 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
9:25	117.80	11.83	7.28	0.640	6.50	187	16.8	180	
0930	117.80	12.83	7.11	0.589	7.36	194	18.5	180	
0935	117.80	13.29	7.05	0.579	7.92	195	15.0	180	
0940	117.80	13.22	7.08	0.578	7.83	197	13.7	180	
0945	117.80	13.22	7.04	0.578	7.85	197	13.6	180	
0950	117.80	11.27	7.07	0.576	7.91	197	13.3	180	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/19/11

Well ID: MW-13E

Initial Static Water Level (feet btoc): ~~117.41~~ 116.91 (SH 12/19/11)

Final Water Level (feet btoc): 116.91

Purge Start Time: 10:15

Sample Time: 10:50

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-44

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 120 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
10:20	116.91	10.96	7.51	0.502	8.33	183	12.4	120	
10:25	116.91	11.12	7.72	0.435	8.13	175	10.9	120	
10:30	116.91	11.84	7.50	0.439	7.66	188	7.4	120	
10:35	116.91	12.40	7.46	0.517	7.66	188	6.5	120	
10:40	116.91	12.61	7.43	0.552	7.44	189	4.1	120	
10:45	116.91	12.78	7.41	0.553	7.80	189	2.9	120	
1050	116.91	12.95	7.44	0.555	7.47	191	1.6	120	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/19/11

Well ID: MW-13C

Initial Static Water Level (feet btoc): 117.37

Final Water Level (feet btoc): 117.37

Purge Start Time: 11:05

Sample Time: 11:50

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-45

Controller Settings: Recharge: 10 secs Discharge: 10 secs Pressure: 75 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
11:10	117.38	12.31	7.65	0.588	8.21	182	0.0	150	
11:15	117.38	12.40	7.45	0.580	7.83	192	0.0	150	
11:20	117.38	11.90	7.38	0.611	8.33	193	0.0	150	
11:25	117.38	11.95	7.36	0.613	8.16	194	0.9	150	
11:30	117.38	13.08	7.35	0.612	8.19	194	5.6	150	
11:35	117.38	13.14	7.36	0.615	8.20	194	12.4	150	
1040	117.38	13.14	7.36	0.629	8.38	194	3.2	150	
1045	117.38	13.25	7.38	0.638	8.82	194	2.6	150	
1050	117.38	13.27	7.38	0.640	8.90	193	2.8	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/19/11

Well ID: MW-31 B

Initial Static Water Level (feet btoc): 118.32

Final Water Level (feet btoc): 118.33

Purge Start Time: 12:00

Sample Time: 12:30

Samplers= Signatures: SH/SH

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-46

Controller Settings: Recharge: 11 secs Discharge: 9 secs Pressure: 70 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
12:05	118.34	12.38	7.74	0.652	9.70	170	0.6	140	
12:10	118.34	11.48	8.37	0.657	8.02	161	0.3	140	
12:15	118.34	12.69	7.40	0.681	7.15	195	3.0	148	
12:20	118.34	11.54	7.32	0.721	6.80	199	0.7	148	
12:25	118.34	10.97	7.30	0.718	6.45	200	0.0	148	
12:30	118.34	11.23	7.30	0.706	6.39	200	0.0	148	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/18/11

(SH -12-19-11) ~~Well ID: MW-51C~~ MW-51D

Initial Static Water Level (feet btoc): 118.04

Final Water Level (feet btoc): 118.03

Purge Start Time: 12:45

Sample Time: 13:20

Samplers= Signatures: SH / SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: none

Sample Number: 5619-47

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 91 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
12:50	118.02	10.94	8.08	0.723	7.50	168	0.0	140 mL	
1255	118.02	10.61	8.15	0.670	6.86	171	1.2	140	
1300	118.02	11.53	7.95	0.675	11.50	178	51.3	140	
1305	118.02	11.24	7.97	0.673	10.39	178	149	140	~~tiny bubbles in effluent~~
1310	118.02	11.49	7.93	0.670	10.30	176	126	140	~~turbidity starting to increase~~
1315	118.02	12.17	7.94	0.669	10.06	177	118	140	~~turbidity~~ SH -12-19-11
1320	118.02	11.93	7.92	0.674	10.03	177	119	140	Turbidity test came up

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 m\
Conductivity	± 3 %	Water Level	± 0.3 fe

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 12/19/11

Well ID: MW-51C

Initial Static Water Level (feet btoc): 119.20

Final Water Level (feet btoc): 119.20

Purge Start Time: 13:40

Sample Time: 15:10

Samplers= Signatures: SH/SA

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-48

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 80 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
13:45	119.21	9.86	8.11	0.636	11.04	175	140	180	
13:50	119.21	11.23	7.85	0.626	11.28	187	444	180	
13:55	119.21	12.05	7.80	0.661	10.17	187	329	180	
14:00	119.21	12.12	7.79	0.668	11.40	187	303	180	
14:05	119.21	12.14	7.78	0.667	10.20	190	304	180	
14:10	119.21	11.71	7.77	0.669	10.35	190	304	180	
14:15	119.21	12.15	7.78	0.661	10.20	190	293	180	
14:20	119.21	12.61	7.77	0.661	10.54	191	272	180	
14:25	119.21	12.60	7.76	0.661	10.55	193	259	180	
14:30	119.21	12.51	7.76	0.662	10.69	192	234	180	
14:35	119.21	12.47	7.75	0.667	10.79	195	221	180	
14:40	119.21	12.47	7.76	0.666	10.75	196	205	180	
14:45	119.21	12.46	7.76	0.666	10.03	195	197	180	
14:50	119.21	12.48	7.77	0.665	10.88	196	184	180	
14:55	119.21	12.50	7.77	0.664	10.90	197	165	180	
15:00	119.21	12.39	7.74	0.664	10.00	196	128	180	
15:05	119.21	12.46	7.77	0.662	11.07	198	129	180	
15:10	119.21	12.47	7.77	0.662	11.59	198	126	180	
15:16									

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/19/11

Well ID: MW-49B

Initial Static Water Level (feet btoc): 118.78

Final Water Level (feet btoc): 118.78

Purge Start Time: 15:40

Sample Time: 16:10

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: - None -

Sample Number: 5619-49

Controller Settings: Recharge: 90 secs Discharge: 10 secs Pressure: 67 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
15:45	118.80	11.05	7.92	0.678	9.18	216	59.2	150	
15:50	118.80	11.10	7.20	0.677	8.25	223	26.0	150	
15:55	118.80	11.49	7.06	0.680	7.26	224	4.6	150	
16:00	118.80	11.57	7.07	0.681	6.69	225	1.6	150	
16:05	118.80	11.19	7.05	0.684	6.52	225	0.0	150	
16:10	118.80	11.11	7.04	0.683	6.18	223	0.0	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/19/11

Well ID: MW-49C

Initial Static Water Level (feet btoc): 117.91

Final Water Level (feet btoc): 117.90

Purge Start Time: 16:20

Sample Time: 17:20

Samplers= Signatures: SH/SH

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: none

Sample Number: 5649-50

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 80 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
16:25	117.92	10.95	7.79	0.660	5.69	181	132	200	
16:30	117.92	11.61	7.35	0.646	5.46	218	218	200	
16:35	117.92	12.64	7.06	0.684	5.43	222	131	200	
16:40	117.92	12.49	7.02	0.715	4.48	219	35.8	200	
16:45	117.92	12.71	6.98	0.723	4.70	217	13.9	200	
16:50	117.92	12.61	6.99	0.728	4.72	218	11.8	200	
16:55	117.92	12.34	6.96	0.725	4.58	215	9.5	200	
17:00	117.92	12.70	6.97	0.723	4.57	215	9.3	200	
17:05	117.92	12.82	7.00	0.726	4.66	217	4.9	200	
17:10	117.92	12.96	7.01	0.725	4.50	216	4.0	200	
17:15	117.92	12.96	6.94	0.725	4.78	214	3.8	200	
17:20	117.92	12.98	7.01	0.726	4.83	215	3.9	200	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12/2011

Well ID: MW-49D

Initial Static Water Level (feet btoc): 117.25

Final Water Level (feet btoc): 116.95

Purge Start Time: 0805

Sample Time: 0850

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: none

Sample Number: 5619-52

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 88 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
0810	116.75	12.73	8.17	0.504	7.60	183	122	100	
0815	116.75	12.34	7.40	0.527	6.87	208	120	100	
0820	116.75	12.40	7.22	0.534	6.31	206	65.7	100	
0825	116.75	12.46	7.24	0.534	5.41	201	39.2	100	
0830	116.75	12.49	7.23	0.534	5.08	200	30.0	100	
0835	116.75	12.50	7.20	0.535	4.80	200	23.6	100	
0840	116.75	12.48	7.21	0.536	4.65	198	19.4	100	
0845	116.75	12.52	7.21	0.535	4.56	195	18.9	100	
0850	116.75	12.52	7.20	0.534	4.48	196	17.9	100	
~~0855~~	SH 12/20/11								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12-20-11

Well ID: MW-50C

Initial Static Water Level (feet btoc): 118.74

Final Water Level (feet btoc): 118.74

Purge Start Time: 09:15

Sample Time: 10:20

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: none

Sample Number: 5619-53

Controller Settings: Recharge: 10 secs Discharge: 10 secs Pressure: ~~40~~ ~~##~~ 80 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
09:20	118.72	10.64	7.47	0.567	11.22	215	165	120	
09:25	118.72	9.98	7.56	0.631	12.57	184	306	120	
09:30	118.72	10.40	7.56	0.642	12.02	184	230	120	
0935	118.72	10.47	7.56	0.643	11.95	183	162	120	
0940	118.72	10.54	7.59	0.643	11.68	184	113	120	
0945	118.72	10.64	7.62	0.645	10.98	182	89.3	120	
0950	118.72	10.81	7.64	0.644	10.38	181	78.8	120	
0955	118.72	10.91	7.66	0.642	10.00	181	64.8	120	
1000	118.72	10.96	7.67	0.642	9.62	181	52.1	120	
1005	118.72	10.99	7.67	0.642	9.03	181	43.6	120	
1010	118.72	11.13	7.68	0.641	9.02	181	35.2	120	
1015	118.72	11.15	7.70	0.641	8.87	181	34.4	120	
1020	118.72	11.21	7.64	0.640	8.83	181	32.9	120	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12-20-17

Well ID: MW-50-B

Initial Static Water Level (feet btoc): 117.79

Final Water Level (feet btoc): 117.80

Purge Start Time: 10:30

Sample Time: 11:05

Samplers= Signatures: SH/SH

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5619-54

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 70 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
10:35	117.85	11.30	7.45	0.555	8.49	190	27.8	200	
10:40	117.85	11.70	7.32	0.554	8.50	192	22.7	200	
10:45	117.85	11.86	7.24	0.551	8.26	195	18.1	200	
10:50	117.85	12.19	7.23	0.549	8.26	195	15.4	200	
10:55	117.85	12.29	7.28	0.547	8.28	195	11.2	200	
11:00	117.85	12.31	7.25	0.546	8.31	191	10.9	200	
11:05	117.85	12.37	7.27	0.545	8.32	191	10.6	200	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 12-20-11

Well ID: MW-50D

Initial Static Water Level (feet btoc): 117.43

Final Water Level (feet btoc): (12/20/11 SH) ~~117.~~ 117.43

Purge Start Time: 11 15

Sample Time: 11:55

Samplers= Signatures: SH/SA

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: none

Sample Number: 5619-55

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 90 psi

Cycles Per Minute: _____

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
11:20	117.44	11.48	7.24	0553	8.69	193	84.1	200	
11:25	117.44	11.81	7.21	0.558	8.09	196	71.3	200	
11:30	117.44	12.28	7.19	0.562	8.02	194	56.5	200	
11:35	117.44	12.31	7.17	0.563	8.01	196	44.3	200	
11:40	117.49	12.44	7.16	0.563	8.04	194	36.9	200	
11:45	117.49	12.58	7.18	0.564	7.83	195	30.2	200	
1150	117.49	12.64	7.15	0.562	7.80	195	30.9	200	
1155	117.49	12.56	7.18	0.563	7.69	195	29.8	200	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

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US EPA ARCHIVE DOCUMENT

EPA FIELD SHEETS

US EPA ARCHIVE DOCUMENT

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US EPA ARCHIVE DOCUMENT

ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
Brian Zurbuchen	BZA72701 / Garvey NPLS	14/15/12 / 11	1 of

CONTENTS OF SHIPMENT: Sampling only

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	BOTTLE	BOTTLE	BOTTLE 4	VOA SET (# VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
5619-61-FB					1	X					Trip Blank
5619-1					3	X					MS/MSD Extra Volume
5619-2					1	X					
~~5619-2-FD~~	5619-2-FD				1	X					Field Duplicate
5619-4					1	X					
5619-5					1	X					
5619-5-FD					1	X					Field Duplicate
5619-7					1	X					
5619-8					1	X					
5619-9					1	X					
5619-10					1	X					
5619-11					1	X					
5619-12					1	X					

SH 12-14-11

RSR not Complete 12-15-2011

DESCRIPTION OF SHIPMENT	MODE OF SHIPMENT
1 PIECE(S) CONSISTING OF _____ BOX(ES)	X COMMERCIAL CARRIER: FedEx
1 ICE CHEST(S); OTHER _____	___ COURIER
	___ SAMPLER CONVEYED
	8753-6175-1489 (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
X SEALED ___ UNSEALED	12/15/11	17:00	___ SEALED ___ UNSEALED	Shipping
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
___ SEALED ___ UNSEALED			___ SEALED ___ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
___ SEALED ___ UNSEALED			___ SEALED ___ UNSEALED	

*U.S. GPO: 2002-756-917/40053

US EPA ARCHIVE DOCUMENT

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
Brian Zurbuchen	BZA72Z01 / Canby, RI/ES	15/16 / 12 / 11	1 of

CONTENTS OF SHIPMENT: LTM Sampling

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (4 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
5619-13					1	X					
5619-14					1	X					
5619-15					1	X					Rinsate Sample
5619-16					1	X					
5619-17					1	X					
~~5619-62~~	5619-62-FB				1	X					Trip Blank
~~5~~619-18					1	X					
5619-19					~~3~~ 1	X					Extra Volume for MS/MSD
5619-22					1	X					
5619-22-FD					1	X					Field Duplicate
5619-20					1	X					
5619-21					1	X					
5619-24					1	X					
5619-25					1	X					
5619-26					1	X					
5619-27					1	X					
5619-28					1	X					
5619-29					1	X					
5619-29-FD					1	X					Field Duplicate
5619-31					1	X					
5619-32					1	X					
			BSR not								
			Complete								

DESCRIPTION OF SHIPMENT

1 PIECE(S) CONSISTING OF _____ BOX(ES)

1 ICE CHEST(S); OTHER _____

MODE OF SHIPMENT

_____ COMMERCIAL CARRIER: _____

_____ COURIER

I SAMPLER CONVEYED

_____ (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	

*U.S. GPO: 2002-756-917/40053

US EPA ARCHIVE DOCUMENT

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
Brian Zuvbuchen	BZA72201 Gavvy Elevator	12 / 14 / 2012	1 of 1

CONTENTS OF SHIPMENT: RI/FS Sampling

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (3 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
5619-63-MS					1	X					TAT Volume Only 3 Vials - One Bottle
5619-33					3	X					Extra Volume for MS/MSD
5619-34					1	X					
5619-35					1	X					
5619-36					1	X					
5619-38					1	X					
5619-38 FD					1	X					Field Duplicate
5619-37					1	X					
5619-40					1	X					
5619-40-FD					1	X					Field Duplicate
5619-42					1	X					
5619-43					1	X					
5619-44					1	X					
5619-45					1	X					
5619-46					1	X					
5619-47					1	X					
5619-48					1	X					
5619-49					1	X					
5619-50					1	X					
5619-52					1	X					
5619-53					1	X					
5619-54					1	X					
5619-55					1	X					
		ASR Complete					12/20/11				

DESCRIPTION OF SHIPMENT

1 PIECE(S) CONSISTING OF _____ BOX(ES)

1 ICE CHEST(S): OTHER _____

MODE OF SHIPMENT

_____ COMMERCIAL CARRIER _____

_____ COURIER

X SAMPLER CONVEYED

_____ (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	

*U.S. GPO: 2002-756-917/40053

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 1 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-1-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-6D

External Sample Number: MW-6D

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	12/14/11	10:50
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	5.41	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	7.28	mg/L
Temperature :	10.95	Deg C
Turbidity :	0.1	NTU
pH :	7.41	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Extra Volume For MS/MSD

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 2 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-2-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-6A

External Sample Number: MW-6A

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	12/14/11	12:25
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.821	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	8.52	mg/L
Temperature :	8.79	Deg C
Turbidity :	4.4	NTU
pH :	7.65	SU

SH 12-14-11

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

SH 12/14/11

SH 12-14-11

ASR Number: 5619 **Sample Number:** ~~2~~ 2-FD **QC Code:** FD **Matrix:** Water **Tag ID:** 5619-~~2~~-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-6A

External Sample Number: MW-6A

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/14/11	12:25
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.821	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	8.52	mg/L
Temperature :	8.79	Deg C
Turbidity :	4.4	NTU
pH :	7.65	SU

SH 12-14-11

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Duplicate sample of sample 5619-2

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 4 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-4-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-6E

External Sample Number: MW-6E

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	12/14/11	14:15
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

SH 12/14/11

Parameter	Value	Units
Conductance, Specific :	0.347	~~umhos/cm~~ ~~MS~~ mS/cm
Dissolved Oxygen :	5.03	mg/L
Temperature :	10.38	Deg C
Turbidity :	0.0	NTU
pH :	7.96	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 5 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-5-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-47B

External Sample Number: MW-47B

Expected Conc: (or Circle One: Low (Medium) High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/14/11	15:30
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.850	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	10.50	mg/L
Temperature :	10.78	Deg C
Turbidity :	22.6	NTU
pH :	7.74	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 5 **QC Code:** FD **Matrix:** Water **Tag ID:** 5619-5-FD

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-47B

External Sample Number: MW-47B

Expected Conc: (or Circle One: Low (Medium) High)

		Date	Time(24 hr)
Latitude:	**Sample Collection: Start:**	12/14/11	15:30
Longitude:	**End:**	__/__/__	__:__

Field Measurement

SH 12-14-11

Parameter	Value	Units
Conductance, Specific :	0,850	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	10,50	mg/L
Temperature :	10,78	Deg C
Turbidity :	22,6	NTU
pH :	7,74	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Duplicate sample of Samae 5619-5

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 7 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-7-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-47D

External Sample Number: MW-47D

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/14/11	17:48
End:	__/__/__	__:__

Field Measurement

SG 12/14/11

Parameter	Value	Units
Conductance, Specific :	0.676	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	8.65	mg/L
Temperature :	9.75	Deg C
Turbidity :	29.2	NTU
pH :	7.69	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SG/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 8 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-8-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-47C

External Sample Number: MW-47C

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/15/11	09:25
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.803	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	8.49	mg/L
Temperature :	10.96	Deg C
Turbidity :	4.4	NTU
pH :	7.25	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 9 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-9-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-9A

External Sample Number: MW-9A

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/15/11	10:35
End:	__/__/__	__:__

Field Measurement

(SH)

Parameter	Value	Units
Conductance, Specific :	0.937	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	9.08	mg/L
Temperature :	10.35	Deg C
Turbidity :	10.0	NTU
pH :	7.56	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 10 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-10-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-7A

External Sample Number: MW-7A

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude:	**Sample Collection: Start:**	12/15/11	12:00
Longitude:	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.782	~~umhos/cm~~ ~~S~~ mS/cm
Dissolved Oxygen :	10.77	mg/L
Temperature :	8.24	Deg C
Turbidity :	3.3	NTU
pH :	7.53	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 11 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-11-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-7B

External Sample Number: MW-7B

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/15/11	12:50
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units (SH)
Conductance, Specific :	0.816	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	8.58	mg/L
Temperature :	10.1	Deg C
Turbidity :	2.7	NTU
pH :	7.48	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 12 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-12-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-01A

External Sample Number: MW-01A

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	12/15/11	14:15
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.740	~~umhos/cm~~ (SU) MS/CM
Dissolved Oxygen :	6.88	mg/L
Temperature :	9.97	Deg C
Turbidity :	6.8	NTU
pH :	7.50	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 13 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-13-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-08A

External Sample Number: MW-08A

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude:	**Sample Collection: Start:**	12/15/11	15:55
Longitude:	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units (SU)
Conductance, Specific :	1.13	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	8.20	mg/L
Temperature :	10.42	Deg C
Turbidity :	4.4	NTU
pH :	7.64	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 14 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-14-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-02A

External Sample Number: MW-02A

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	12/15/11	17:20
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units (SU)
Conductance, Specific :	0.720	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	6.98	mg/L
Temperature :	8.29	Deg C
Turbidity :	0.5	NTU
pH :	7.52	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH / SH

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 15 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-15-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: Rinsate Sample

External Sample Number: Rinsate Sample

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 12/16/11 08:00
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	~	umhos/cm
Dissolved Oxygen :	~	mg/L
Temperature :	~	Deg C
Turbidity :	~	NTU
pH :	~	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) Equipment Rinsate collected using D.I Water Supplied by E.P.A for ASR 5619.

Pump S/N 11581

Sample Collected By: SA/SH

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 16 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-16-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-31A

External Sample Number: MW-31A

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

Sample Collection: **Start:** 12/16/11 **Time(24 hr)** 10:05
End: __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.888	~~umhos/cm~~ mS/cm (SU)
Dissolved Oxygen :	0.48	mg/L
Temperature :	9.38	Deg C
Turbidity :	6.5	NTU
pH :	7.51	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 17 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-17-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-31C

External Sample Number: MW-31C

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	12/16/11	11:00
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.386	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	6.30	mg/L
Temperature :	10.17	Deg C
Turbidity :	1.8	NTU
pH :	7.40	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 18 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-18-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-30A

External Sample Number: _____

Expected Conc: (or Circle One: Low (Medium) High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/16/11	12:00
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.687	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	6.52	mg/L
Temperature :	12.01	Deg C
Turbidity :	0.9	NTU
pH :	7.32	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SR

US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 19 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-19-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-30D

External Sample Number: MW-30D

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude:	**Sample Collection: Start:**	12/6/11	13:50
Longitude:	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units (SH)
Conductance, Specific :	0.690	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	2.91	mg/L
Temperature :	11.32	Deg C
Turbidity :	15.6	NTU
pH :	7.18	SU

12/6/11

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Extra Volume For MS/MSD

Note: Possible Hydrogen Sulfide coming out of Solution Vials may have Air Bubbles.

Sample Collected By: SH/SA

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 20 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-20-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-30E

External Sample Number: MW-30E

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/16/4	15:30
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units (SH)
Conductance, Specific :	0.660	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	12.20	mg/L
Temperature :	11.59	Deg C
Turbidity :	0.0	NTU
pH :	8.0	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SH

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 21 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-21-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-19C

External Sample Number: MW-19C

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	12/16/11	16:30
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.729	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	7.11	mg/L
Temperature :	9.72	Deg C
Turbidity :	0.0	NTU
pH :	7.72	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 22 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-22-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-30C

External Sample Number: MW-30C

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	12/16/11	13:00
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.674	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	13.14	mg/L
Temperature :	10.76	Deg C
Turbidity :	0.17	NTU
pH :	7.89	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 22 **QC Code:** FD **Matrix:** Water **Tag ID:** 5619-22-FD

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-30C

External Sample Number: MW-30C

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	12/16/11	13:00
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.679	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	13.14	mg/L
Temperature :	10.76	Deg C
Turbidity :	0.0	NTU
pH :	7.89	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Field Duplicate of Sample 5619-22

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 24 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-24-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-20A

External Sample Number: MW20A

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	12/17/11	09:50
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.769	umhos/cm
Dissolved Oxygen :	3.34	mg/L
Temperature :	8.32	Deg C
Turbidity :	10.6	NTU
pH :	7.11	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SN

US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 25 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-25-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-20C

External Sample Number: MW-20C

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___

Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/17/11	10:45
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	01553 (SH)	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	~~7.24~~ (ED)	mg/L
Temperature :	10.20	Deg C
Turbidity :	2.0	NTU
pH :	7.20	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 26 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-26-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: ~~MW-20S~~ MW-20D (SH 12/17/11) (SH 12/17/11)

External Sample Number: ~~MW-20S~~ MW-20D

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/17/11	11:20
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.461	umhos/cm
Dissolved Oxygen :	0.0	mg/L
Temperature :	11.34	Deg C
Turbidity :	19.0	NTU
pH :	6.92	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 27 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-27-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-20E

External Sample Number: MW-20E

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/17/11	12:05
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.405	~~umhos/cm~~ mS/cm (SU)
Dissolved Oxygen :	3.56	mg/L
Temperature :	11.83	Deg C
Turbidity :	0.0	NTU
pH :	7.68	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 28 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-28-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-3A

External Sample Number: MW-3A

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/17/11	13:50
End:	__/__/__	__:__

Field Measurement

Parameter	Value (12-17-11 SH)	Units (12-17-11 SH)
Conductance, Specific :	42' 0.931	~~umhos/cm~~ ~~uS/cm~~ mS/cm
Dissolved Oxygen :	7.90	mg/L
Temperature :	12.50	Deg C
Turbidity :	7.2	NTU
pH :	7.31	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 29 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-29-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-3B

External Sample Number: MW-3B

Expected Conc: (or Circle One: Low (Medium) High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	7/15/11	14:50
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.838	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	7.33	mg/L
Temperature :	11.95	Deg C
Turbidity :	15.3	NTU
pH :	7.26	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SA/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

12-17-11 SH

SH 12/17/11 29 -29-FD

ASR Number: 5619 **Sample Number:** ~~30~~ **QC Code:** FD **Matrix:** Water **Tag ID:** 5619-~~30~~-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-3B

External Sample Number: MW-3B

Expected Conc: (or Circle One: Low (Medium) High)

		Date	Time(24 hr)
Latitude:	**Sample Collection: Start:**	7/15/11	14:50
Longitude:	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.838	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	7.33	mg/L
Temperature :	11.95	Deg C
Turbidity :	15.3	NTU
pH :	7.26	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Duplicate sample of sample 5619-29

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 31 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-31-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-3E

External Sample Number: MW-3E

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/17/11	15:45
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.564	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	7.96	mg/L
Temperature :	12.38	Deg C
Turbidity :	1.8	NTU
pH :	8.01	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 32 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-32-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-3D

External Sample Number: _____

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/17/11	16:45
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.536	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	6.67	mg/L
Temperature :	12.42	Deg C
Turbidity :	4.0	NTU
pH :	7.41	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 33 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-33-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-4B

External Sample Number: MW-4B

Expected Conc: (or Circle One: Low Medium (High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	12/18/11	10:05
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units (SU)
Conductance, Specific :	0.775	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	8.15	mg/L
Temperature :	12.62	Deg C
Turbidity :	47.0	NTU
pH :	7.01	SU

Laboratory Analyses:

12 H -18-11

Container	Preservative	Holding Time	Analysis
1 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:
(N/A)

Extra volume for MS/MSD

Sample Collected By: SH/SA

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 34 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-34-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: SH 12/18/11 ~~MW-4B~~ MW-4A

External Sample Number: MW-4A

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___	**Sample Collection: Start:**	12/18/11	11:15
Longitude: ___	**End:**	__/__/__	__:__

Field Measurement (SH)

Parameter	Value	Units
Conductance, Specific :	~~0.~~ 0.727	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	6.01	mg/L
Temperature :	12.71	Deg C
Turbidity :	26.3	NTU
pH :	7.06	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SM

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 35 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-35-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-5B

External Sample Number: MW-5B

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude:	**Sample Collection: Start:**	12/8/11	12:05
Longitude:	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.847	~~umhos/cm~~ mS/cm (S14)
Dissolved Oxygen :	5.65	mg/L
Temperature :	13.71	Deg C
Turbidity :	3.6	NTU
pH :	6.96	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SM

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 36 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-36-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-5A

External Sample Number: MW-5A

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	5/18/11	13:00
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units (SH)
Conductance, Specific :	0.774	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	8.61	mg/L
Temperature :	14.11	Deg C
Turbidity :	34.1	NTU
pH :	7.02	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH / SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 37 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-37-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-48D

External Sample Number: MW-48D

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/18/11	16:05
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.584	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	10.81	mg/L
Temperature :	13.57	Deg C
Turbidity :	21.5	NTU
pH :	7.43	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 38 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-38-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-48B

External Sample Number: MW-48B

Expected Conc: (or Circle One: Low Medium (High))

Latitude: ___ ___ ___ **Longitude:** ___ ___ ___

Sample Collection: **Start:** 12/18/11 14:40 **End:** __/__/__ __:__

Field Measurement

SH 12/18/11

Parameter	Value	Units
Conductance, Specific :	0.832	umhos/cm
Dissolved Oxygen :	~~0.875~~ 8.75	mg/L
Temperature :	13.25	Deg C
Turbidity :	61.0	NTU
pH :	7.05	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 38 **QC Code:** FD **Matrix:** Water **Tag ID:** 5619-38-FD

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-48B

External Sample Number: MW-48B

Expected Conc: (or Circle One: Low Medium (High))

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/19/11	14:40
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.832	umhos/cm
Dissolved Oxygen :	6.75	mg/L
Temperature :	13.25	Deg C
Turbidity :	61.0	NTU
pH :	7.05	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 40 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-40-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-48C

External Sample Number: MW-48C

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/18/11	17:00
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.622	umhos/cm
Dissolved Oxygen :	5.55	mg/L
Temperature :	13.99	Deg C
Turbidity :	28.4	NTU
pH :	6.87	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 40 **QC Code:** FD **Matrix:** Water **Tag ID:** 5619-40-FD

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-48C

External Sample Number: MW-48C

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

Sample Collection: **Start:** 12/18/11 17:00
End: __/__/__ __:__

Field Measurement

12/18/11 SH

Parameter	Value	Units (SH)
Conductance, Specific :	~~0.60~~ 0.622	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	5.55	mg/L
Temperature :	13.99	Deg C
Turbidity :	28.9	NTU
pH :	6.87	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Duplicate Sample of Sample 5619-40

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 42 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-42-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-19A

External Sample Number: MW-19A

Expected Conc: (or Circle One: Low (Medium) High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/19/11	8:50
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	1.00	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	4.05	mg/L
Temperature :	12.80	Deg C
Turbidity :	0.0	NTU
pH :	7.13	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 43 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-43-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-5D

External Sample Number: MW-5D

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	12/19/11	09:50
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.576	umhos/cm mS/cm
Dissolved Oxygen :	7.91	mg/L
Temperature :	11.27	Deg C
Turbidity :	13.3	NTU
pH :	7.07	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 44 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-44-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-13E

External Sample Number: MW-13E

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/19/11	10:50
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.555	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	7.47	mg/L
Temperature :	12.95	Deg C
Turbidity :	1.6	NTU
pH :	7.44	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 45 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-45-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-13C

External Sample Number: MW-13C

Expected Conc: (or Circle One: Low (Medium) High)

Latitude: ___ **Longitude:** ___

	Date	Time(24 hr)
Sample Collection: Start:	12/11/11	11:50
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.640	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	8.40	mg/L
Temperature :	13.27	Deg C
Turbidity :	2.8	NTU
pH :	7.38	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 46 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-46-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: SH 12-19-11 ~~MW-50B~~ MW-51B (SH 12-19-11)

External Sample Number: ~~MW-50B~~ MW-51B

Expected Conc: (or Circle One: Low Medium (High))

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/19/11	12:30
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units (SH)
Conductance, Specific :	0.706	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	6.39	mg/L
Temperature :	11.23	Deg C
Turbidity :	0.0	NTU
pH :	7.30	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 47 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-47-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

SH 12-19-11

Location Desc: ~~MW-51C~~ MW-51D SH 12-19-11

External Sample Number: ~~MW-51C~~ MW-51D

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	12/19/11	13:20
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units (SH)
Conductance, Specific :	0.674	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	10.03	mg/L
Temperature :	11.93	Deg C
Turbidity :	119	NTU
pH :	7.92	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH / SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 48 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-48-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-51C

External Sample Number: MW-51C

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	12/19/11	15:10
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.662	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	11.59	mg/L
Temperature :	12.47	Deg C
Turbidity :	126	NTU
pH :	7.77	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 49 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-49-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-49B

External Sample Number: _____

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/14/11	16:10
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.683	umhos/cm ~~mS/cm~~ SH mS/cm
Dissolved Oxygen :	6.18	mg/L
Temperature :	11.11	Deg C
Turbidity :	0.0	NTU
pH :	7.04	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 50 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-50-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-49C

External Sample Number: MW-49C

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 12/14/11 17:20

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

(SH) mS/cm

Parameter	Value	Units
Conductance, Specific :	0.726	~~umhos/cm~~
Dissolved Oxygen :	4.83	mg/L
Temperature :	12.98	Deg C
Turbidity :	3.9	NTU
pH :	7.01	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 52 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-52-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-49D

External Sample Number: MW-49D

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/20/11	0850
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units (SH)
Conductance, Specific :	0.539	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	4.40	mg/L
Temperature :	12.52	Deg C
Turbidity :	17.9	NTU
pH :	7.2	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH / SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 53 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-53-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-50C

External Sample Number: MW-50C

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude:	**Sample Collection: Start:**	12/20/11	10:20
Longitude:	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units (SA)
Conductance, Specific :	0.640	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	8.83	mg/L
Temperature :	11.21	Deg C
Turbidity :	37.9	NTU
pH :	7.68	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 54 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-54-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-50B

External Sample Number: MW-50B

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 12/20/11 11:05

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units (SH)
Conductance, Specific :	0.545	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	8.32	mg/L
Temperature :	12.37	Deg C
Turbidity :	10.6	NTU
pH :	7.27	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 55 **QC Code:** __ **Matrix:** Water **Tag ID:** 5619-55-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-50D

External Sample Number: MW-50D

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/20/11	11:55
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.563	~~umhos/cm~~ mS/cm
Dissolved Oxygen :	7.69	mg/L
Temperature :	12.56	Deg C
Turbidity :	29.8	NTU
pH :	7.18	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 61 **QC Code:** FB **Matrix:** Water **Tag ID:** 5619-61-FB

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: Trip Blank #1

External Sample Number: Trip Blank #1

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude:	**Sample Collection: Start:**	12/7/11	08:22
Longitude:	**End:**	2/14/11	10:30

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:
(N/A)

Trip Blank note:
Sample collection Start Time is Date and Time
Sample prepared By EPA in the Lab
Sample collection End Time is Date and Time
Sample Labled By HGL in the field;

Sample Collected By: SH/SA

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 62 **QC Code:** FB **Matrix:** Water **Tag ID:** 5619-62-FB

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: Trip Blank # 2

External Sample Number: Trip Blank #2

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	12/7/11	8:20
End:	12/16/11	11:40

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample collection Start Time = Date and time EPA Prepared the samples in the Lab

Sample collection END Time = Date and Time Sample labled in the field by ~~EPA~~ SH 12-16-11 HCl.

Sample Collected By: SH/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5619 **Sample Number:** 63 **QC Code:** FB **Matrix:** Water **Tag ID:** 5619-63-FB

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: Tr. P Blank # 3

External Sample Number: Tr:P Blank # 3

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

Sample Collection:	Date	Time(24 hr)
Start:	12/7/11	08:25
End:	12/8/11	09:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
3/4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

SM 12/8-11

Sample Comments:
(N/A)

- only 3 vials submitted because one Broke

note: Sample collection start time is the Date and Time Sample prepared By EPA

Sample collection End time is Date and time Sample labled in the field by HGL

Sample Collected By: EPA / HGL

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MARCH 2012

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WATER LEVEL DATA

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US EPA ARCHIVE DOCUMENT

HGL HydroGeologic, Inc.

MONITOR WELL STATIC WATER LEVEL FORM

PROJECT NAME: Garvey Elevator DATE: 3/15/2012

PROJECT NO.: _____

WATER LEVEL INDICATOR ID NO.: _____ FIELD BOOK NO.: _____

LOCATION: Hastings, NE PAGE NO.: 122-124

Monitor Well Name	Date/Time	Static Water Level (feet BTOC)	Total Well Depth (ft)	Explosimeter Reading (above background)	PID Reading (above background)
MW-7A	8:09	106.98			
MW-7B	8:12	107.67			
MW-9A	8:18	110.31			
MW-8A	8:27	124.76			
MW-2A	8:32	114.17			
MW-6A	8:36	116.78			
MW-6D	8:37	116.94			
MW-6E	8:39	117.86			
MW-1A	8:43	110.91			
MW-5D	8:50	117.10			
MW-5B	8:52	117.18			
MW-5A	8:54	116.09			
MW-48B	8:58	117.74			
MW-48C	9:00	117.37			
MW-48D	9:02	116.68			
MW-3B	9:06	118.51			
MW-3A	9:09	119.79			

Note: Total well depth to be measured at time of gauging.

Comments: Evidence of grass fire around MW-7A and MW-7B. Wells appear undamaged. Evidence of fire also around MW-1A, it appears undamaged

Monitoring Personnel _____

MONITOR WELL STATIC WATER LEVEL FORM

PROJECT NAME: Garvey Elevator DATE: 3/15/2012

PROJECT NO.: _____

WATER LEVEL INDICATOR ID NO.: _____ FIELD BOOK NO.: _____

LOCATION: Hastings, NE PAGE NO.: 122-123

Monitor Well Name	Date/Time	Static Water Level (feet BTOC)	Total Well Depth (ft)	Explosimeter Reading (above background)	PID Reading (above background)
MW-3E	9:12	117.42			
MW-3D	9:13	118.52			
MW-47B	9:18	117.83			
MW-47C	9:20	119.59			
MW-47D	9:22	117.74			
MW-49B	9:27	118.46			
MW-49C	9:29	117.78			
MW-49D	9:31	116.80			
MW-50B	9:36	117.33			
MW-50C	9:39	118.68			
MW-50D	9:41	117.01			
MW-51B	9:46	117.68			
MW-51C	9:48	118.80			
MW-51D	9:50	117.39			
MW-13E	9:56	116.25			
MW-13C	9:59	117.01			
MW-19A	10:25	115.91*			

Note: Total well depth to be measured at time of gauging.

Comments: *Water level taken from system

Monitoring Personnel _____

US EPA ARCHIVE DOCUMENT

MONITOR WELL STATIC WATER LEVEL FORM

PROJECT NAME: Garvey Elevator DATE: 3/15/2012

PROJECT NO.: _____

WATER LEVEL INDICATOR ID NO.: _____ FIELD BOOK NO.: _____

LOCATION: Hastings, NE PAGE NO.: 122-124

Monitor Well Name	Date/Time	Static Water Level (feet BTOC)	Total Well Depth (ft)	Explosimeter Reading (above background)	PID Reading (above background)
MW-19C	10:25	116.67*			
MW-20A	10:25	116.92*			
MW-20C	10:25	122.36*			
MW-20D	10:25	116.74*			
MW-20E	10:25	117.12*			
MW-30A	10:25	117.89*			
MW-30C	10:25	117.71*			
MW-30D	10:25	117.89*			
MW-30E	10:25	118.53*			
MW-31A	10:25	118.28*			
MW-31C	10:25	118.07*			
MW-4B	10:36	117.25			
MW-4A	10:38	117.44			

Note: Total well depth to be measured at time of gauging.

Comments: * Water Level taken from system

Monitoring Personnel _____

US EPA ARCHIVE DOCUMENT

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HGL Hydrogeologic, Inc.

MONITOR WELL STATIC WATER LEVEL FORM

PROJECT NAME: GARVEY ELEVATOR DATE: 3-15-12

PROJECT NO.: EP9034.01.022

WATER LEVEL INDICATOR ID NO.: HERON DIPPER-T FIELD BOOK NO.: _____

LOCATION: HASTINGS, NE – OU2 PAGE NO.: 1 OF 3

Monitor Well Name	Date/Time	Static Water Level (feet BTOC)	Total Well Depth (ft)	Explosimeter Reading (above background)	PID Reading (above background)
MW-44D	3-15-12/0748	109.30	—	NA	NA
MW-44E	" /0749	109.30	—	NA	NA
MW-42D	" /0802	120.49	—	NA	NA
MW-42E	" /0803	120.61	—	NA	NA
MW-106A	" /0806	120.36	—	NA	NA
MW-106C	" /0807	122.34	—	NA	NA
MW-106D	" /0809	122.37	—	NA	NA
MW-43D	" /0818	124.90	—	NA	NA
MW-43E	" /0820	124.89	—	NA	NA
MW-41D1	" /0825	118.88	—	NA	NA
MW-41D2	" /0828	118.63	—	NA	NA
MW-46D1	" /0834	113.64	—	NA	NA
MW-46D2	" /0836	113.81	—	NA	NA
MW-105A	" /0839	118.96	—	NA	NA
MW-105C	" /0840	120.24	—	NA	NA
MW-105D	" /0842	120.06	—	NA	NA
MW-104A	" /0845	104.29	—	NA	NA

Note: Total well depth to be measured at time of gauging.

Comments: TOTAL WELL DEPTH NOT MEASURED DURING GAUGING

Monitoring Personnel BW/SA

MONITOR WELL STATIC WATER LEVEL FORM

PROJECT NAME: GARNEY ELEVATOR DATE: 3-15-12

PROJECT NO.: EP9034.01.022

WATER LEVEL INDICATOR ID NO.: HERON DIPPER-T FIELD BOOK NO.: _____

LOCATION: HASTINGS, NE - OU2 PAGE NO.: 2 OF 3

Monitor Well Name	Date/Time	Static Water Level (feet BTOC)	Total Well Depth (ft)	Explosimeter Reading (above background)	PID Reading (above background)
MW-104C	3-15-12/0847	106.19	—	NA	NA
MW-104D	" /0849	106.11	—	NA	NA
MW-11A	" /0910	98.21	—	NA	NA
MW-10A	" /0915	107.68	—	NA	NA
MW-10B	" /0917	108.75	—	NA	NA
MW-14A	" /0925	100.74	—	NA	NA
MW-12A	" /0930	112.20	—	NA	NA
MW-12C	" /0932	112.97	—	NA	NA
MW-12D	" /0935	112.18	—	NA	NA
MW-45C	" /0938	101.86	—	NA	NA
MW-45D	" /0940	101.52	—	NA	NA
MW-17A	" /0945	93.20	—	NA	NA
MW-17C	" /0947	92.67	—	NA	NA
MW-17D	" /0950	92.64	—	NA	NA
MW-16A	" /0955	107.53	—	NA	NA
MW-16C	" /0957	107.73	—	NA	NA
MW-18A	" /1010	106.60	—	NA	NA

Note: Total well depth to be measured at time of gauging.

Comments: TOTAL WELL DEPTH NOT MEASURED

Monitoring Personnel BW/SA

US EPA ARCHIVE DOCUMENT

MONITOR WELL STATIC WATER LEVEL FORM

PROJECT NAME: GARVEY ELEVATOR DATE: 3-15-12

PROJECT NO.: EP9034.01.022

WATER LEVEL INDICATOR ID NO.: HERON DIPPER-T FIELD BOOK NO.: _____

LOCATION: HASTINGS, NE - OU2 PAGE NO.: 3 OF 3

Monitor Well Name	Date/Time	Static Water Level (feet BTOC)	Total Well Depth (ft)	Explosimeter Reading (above background)	PID Reading (above background)
MW-18C	3-15-12/1013	107.94	—	NA	NA
MW-18D	" /1015	108.15	—	NA	NA

3-15-12

Note: Total well depth to be measured at time of gauging.

Comments: TOTAL WELL DEPTH NOT MEASURED

Monitoring Personnel BW/SA

US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

PURGE SHEETS

US EPA ARCHIVE DOCUMENT

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LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/16/2012

OVM: FID G PID G **In Casing (ppm): (Initial)** Not Applicable **(Vented to)** atmosphere

Well ID: MW-1A

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen Pump SN. 1428

Initial Static Water Level (feet btoc): 110.76

Analytical Parameters: LDL VOCs

Final Water Level (feet btoc): 110.79

QC Samples Collected: None

Purge Start Time: 17:30

Sample Number: 5678-32

Sample Time: 18:05

Controller Settings: Recharge: 15 **secs Discharge:** 15 **secs Pressure:** 65 **psi**

Samplers= Signatures: SH/KJ

Cycles Per Minute: 2

	Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1735	~~15:35~~	110.79	25.27	7.51	.688	5.59	93	0.0	120	
1740	~~15:40~~	110.79	25.04	7.27	.672	5.57	102	0.0	120	
1745	~~15:45~~	110.79	24.71	7.11	.662	5.84	112	0.0	120	
1750	~~15:50~~	110.79	24.37	6.93	.599	5.77	118	0.0	120	
1755	~~15:55~~	110.79	24.08	7.00	.650	5.55	119	0.0	120	
	18:00	110.79	23.82	6.93	.643	5.53	122	0.0	120	
	18:05	110.79	23.60	6.90	.638	5.62	123	0.0	120	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/13/12

Well ID: MW-02A

Initial Static Water Level (feet btoc): 114.12

Final Water Level (feet btoc):

Purge Start Time: 14:30

Sample Time: 15:35

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pumpSN: 1428

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-7

Controller Settings: Recharge: 110 **secs Discharge:** 14 **secs Pressure:** 85 **psi**

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
14:35	114.02	24.39	6.91	.798	7.35	174	316	100	
14:40	114.02	23.38	6.58	.788	6.63	188	203	100	
14:45	114.02	23.84	6.42	.790	6.00	193	175	100	
14:50	114.02	23.92	6.35	.787	6.76	194	124	100	
14:55	114.02	23.21	6.33	.788	6.53	193	78.7	100	
15:00	114.02	21.18	6.35	.786	6.10	192	53.9	100	
15:05	114.02	19.17	6.29	.778	5.45	194	21.8	100	
15:10	114.02	19.35	6.25	.780	6.00	195	10.8	100	
15:15	114.02	19.02	6.33	.780	5.45	185	5.6	100	
15:20	114.02	19.05	6.62	.782	5.52	172	2.3	100	
15:25	114.02	19.06	6.77	.787	5.11	172	0.0	100	
15:30	114.02	19.21	6.74	.783	5.21	172	0.0	100	
15:35	114.02	19.00	6.69	.784	5.20	174	0.0	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/14/2012

Well ID: MW-03A

Initial Static Water Level (feet btoc): 119.73

Final Water Level (feet btoc): 119.73

Purge Start Time: 8:25

Sample Time: 8:50

Samplers= Signatures: SH/KS

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen Pump SN 1428

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-11

Controller Settings: Recharge: 11 secs Discharge: 9 secs Pressure: 75 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
8:30	119.73	10.50	6.77	1.13	8.35	163	36.2	160	
8:35	119.73	10.61	6.86	1.12	8.25	150	12.7	160	
8:40	119.73	10.65	6.93	1.10	7.91	151	4.9	160	
8:45	119.73	10.67	6.95	1.10	7.92	150	0.0	160	
8:50	119.73	10.68	6.91	1.09	8.00	153	0.0	160	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/13/2012

Well ID: MW-03B

Initial Static Water Level (feet btoc): 117.93

Final Water Level (feet btoc): _____

Purge Start Time: 17:00

Sample Time: 17:20

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN: 1428

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-9

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 70 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
17:05	118.60	18.08	6.84	.887	758	203	0.0	175	
17:10	118.64	17.15	6.58	.916	726	217	0.0	175	
17:15	118.68	17.02	6.51	.926	774	221	0.0	175	
17:20	118.70	16.89	6.49	.937	714	224	0.0	175	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/13/2012

Well ID: MW-03D

Initial Static Water Level (feet btoc): 118.41

Final Water Level (feet btoc): _____

Purge Start Time: 16:25

Sample Time: 16:45

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN: 111695

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-8

Controller Settings: Recharge: 15 (15) secs **Discharge:** 15 (15) secs **Pressure:** 95 (90) psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
16:30	118.42	19.02	6.87	.652	6.69	185	92.0	140	
16:35	118.42	18.48	6.82	.583	6.18	194	92.9	140	
16:40	118.42	18.53	6.78	.572	6.12	197	91.5	140	
16:45	118.42	18.30	~~6.74~~	.567	5.94	201	92.0	140	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/13/2012

Well ID: ~~MW-06E~~ MW-03F

Initial Static Water Level (feet btoc): 11.25

Final Water Level (feet btoc): _____

Purge Start Time: 17:30

Sample Time: _____

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN: 111695

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-10

Controller Settings: Recharge: 15 secs **Discharge:** 15 secs **Pressure:** 120 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1735	11.25	20.20	6.91	.614	7.54	213	6.2	100	
1740	11.25	19.68	7.46	.576	8.11	94	2.9	100	
1745	11.25	19.36	7.48	.579	8.21	37	2.3	100	
1750	11.25	18.99	7.40	.583	7.10	-21	0.0	100	
1755	11.25	18.73	7.31	.589	6.52	-21	0.0	100	
1800	11.25	18.53	7.31	.591	6.21	-9	0.0	100	
1805	11.25	18.80	7.32	.592	5.96	6	0.0	100	
1810	11.25	17.14	7.33	.591	5.06	6	0.0	100	
1815	~~11.25~~							~~100~~	Bladder broken. Pause & replace
1825	Resume	Pumping							
1830	11.25	17.68	8.04	.567	0.00	-34	8.2		
1835	11.25	17.73	7.63	.568	3.34	-101	8.5		
1840	Stop pumping, will Return in morning								
	See page 2								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/14/2012

OVM: FID G PID G **In Casing (ppm): (Initial)** Not Applicable **(Vented to)** atmosphere

Well ID: MW-03E

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Initial Static Water Level (feet btoc): 117.39

Analytical Parameters: LDL VOCs

Final Water Level (feet btoc): 117.32

QC Samples Collected: None

Purge Start Time: 8:55

Sample Number: 5678-10

Sample Time: 9:40

Controller Settings: Recharge: 15 **secs Discharge:** 15 **secs Pressure:** 120 **psi**

Samplers= Signatures: SH/KJ

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
9:00	117.39	10.68	7.00	.928	6.64	149	0.0	130	
9:05	117.39	11.23	7.16	.754	4.17	139	0.0	130	
9:10	117.39	11.65	7.42	.692	3.01	109	0.0	130	
9:15	117.39	12.06	7.60	.663	2.50	75	0.0	130	
9:20	117.39	12.50	7.72	.650	2.31	49	0.0	130	
9:25	117.39	12.73	7.75	.644	2.28	40	0.0	130	
9:30	117.39	12.89	7.86	.640	2.18	33	0.0	130	
9:35	117.39	13.21	7.90	.636	2.11	31	0.0	130	
9:40	117.39	13.39	7.89	.635	2.20	30	0.0	130	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-18-12

Well ID: MW-04A

Initial Static Water Level (feet btoc): 117.51

Final Water Level (feet btoc): 117.51

Purge Start Time: 13:30

Sample Time: 14:05

Samplers= Signatures:

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5678-45

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 70 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1333	117.51	16.18	7.79	0.865	6.99	283	0.0	200	
1338	117.51	15.73	7.38	0.875	6.53	290	0.0	200	
1343	117.51	15.78	7.35	0.877	6.68	290	0.0	200	
1348	117.51	15.66	7.38	0.878	6.47	295	0.0	200	
1353	117.51	15.58	7.33	0.880	6.66	297	0.0	200	
1358	117.51	15.45	7.39	0.881	6.60	302	0.0	200	
1403	117.51	15.57	7.40	0.879	6.45	303	0.0	200	
1405	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3-18-12

Well ID: MW-4B

Initial Static Water Level (feet btoc): 117.30

Final Water Level (feet btoc): 117.39

Purge Start Time: 12:30

Sample Time: 13:20

Samplers= Signatures:

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5678-44

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 72 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1245	117.42	19.57	7.52	0.793	7.32	278	50.5	200	
1250	117.42	18.71	7.57	0.805	7.75	291	106	200	
1255	117.42	18.01	7.35	0.851	8.02	286	24.2	200	
1300	117.42	17.90	7.36	0.853	7.80	292	0.0	200	
1305	117.42	17.53	7.34	0.854	7.77	304	0.0	200	
1310	117.42	17.31	7.34	0.854	8.09	310	0.0	200	
1315	117.42	17.07	7.37	0.849	8.00	316	0.0	200	
1320	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/17/12

Well ID: MW-5A

Initial Static Water Level (feet btoc): 116.00

Final Water Level (feet btoc): 116.00

Purge Start Time: 9:30

Sample Time: 9:50

Samplers= Signatures: SH/KS

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN: 1428

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-34

Controller Settings: Recharge: 18 secs Discharge: 12 secs Pressure: 65 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
9:35	116.00	13.97	6.97	.946	8.61	198	3.0	100	
9:40	116.00	13.92	6.98	.923	8.36	185	0.0	100	
9:45	116.00	14.20	7.07	.920	8.22	182	0.0	100	
9:50	116.00	14.28	7.07	.921	7.80	184	0.0	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/17/12

Well ID: MW-5B

Initial Static Water Level (feet btoc): 117.10

Final Water Level (feet btoc): 117.10

Purge Start Time: 8:40

Sample Time: 9:15

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm): (Initial)** Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN: 11695

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-33

Controller Settings: Recharge: 13 **secs Discharge:** 7 **secs Pressure:** 75 **psi**

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
8:45	117.09	17.71	4.48	0.007	9.69	264	110	50	horiba not full
8:50	117.09	17.56	4.53	0.007	9.68	266	113	50	horiba not full /adjust flow
8:55	117.09	14.93	6.73	1.06	8.50	201	0.0	110	
9:00	117.09	14.30	6.90	1.03	7.76	187	0.0	~~+9~~110	
9:05	117.09	14.08	6.91	1.02	7.79	169	0.0	110	
9:10	117.09	14.08	6.91	1.01	7.47	169	0.0	110	
9:15	117.09	14.07	6.88	1.01	7.77	163	0.0	110	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/17/2012

Well ID: MW-5D

Initial Static Water Level (feet btoc): 117.08

Final Water Level (feet btoc): 117.08

Purge Start Time: 10:30

Sample Time: 10:50

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN: 11695

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-35

Controller Settings: Recharge: 15 **secs Discharge:** 15 **secs Pressure:** 90 **psi**

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
10:35	117.08	15.84	7.75	.659	14.69	168	0.0	150	
10:40	117.08	16.02	7.13	.648	14.59	178	0.0	150	
10:45	117.08	16.12	7.09	.665	14.54	177	0.0	150	
10:50	117.08	16.20	7.03	.655	14.57	181	0.0	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/12/12

Well ID: MW-06A

Initial Static Water Level (feet btoc): 116.75

Final Water Level (feet btoc): 116.77

Purge Start Time: 16:45

Sample Time: 18:15

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen Pump SN: 1428

Analytical Parameters: LDL VOCs

QC Samples Collected: Extra Volume for MS/MSD

Sample Number: 5678-1

Controller Settings: Recharge: 15 **secs Discharge:** 15 **secs Pressure:** 65 **psi**

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
16:50	116.78	19.71	6.95	.870	6.14	153	171	150	
16:55	116.78	18.97	6.84	.857	6.22	161	128	150	
17:00	116.78	18.51	6.78	.844	6.15	167	102	150	
17:05	116.78	17.99	6.75	.841	6.13	170	78.8	150	
17:10	116.78	18.25	6.84	.824	5.81	177	59.1	150	
17:15	116.78	17.95	6.85	.829	5.84	176	42.4	150	
17:20	116.78	17.94	6.81	.826	5.77	179	32.0	150	
17:25	116.78	18.09	6.83	.825	5.74	180	26.5	150	
17:30	116.78	18.66	6.89	.824	5.47	183	23.8	150	
17:35	116.78	19.24	6.89	.825	5.49	186	19.2	150	
17:40	116.78	19.54	6.88	.826	5.52	185	16.1	150	
17:45	116.78	19.65	6.88	.826	5.67	187	13.1	150	
17:50	116.78	19.60	6.92	.826	5.44	187	11.4	150	
17:55	116.78	19.57	6.93	.826	5.41	189	9.6	150	
18:00	116.78	19.43	6.91	.827	5.46	191	7.6	150	
18:05	116.78	19.21	6.95	.828	5.47	192	6.3	150	
18:10	116.78	18.90	6.91	.830	5.51	194	6.2	150	
18:15	116.78	18.77	6.94	829	5.54	197	4.7	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/12/12

Well ID: MW-06D

Initial Static Water Level (feet btoc): 116.97

Final Water Level (feet btoc):

Purge Start Time: 18:30

Sample Time: 19:00

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN 11695

Analytical Parameters: LDL VOCs

QC Samples Collected: 5678-2-FD

Sample Number: 5678-2

Controller Settings: Recharge: 15 secs **Discharge:** 15 secs **Pressure:** 85 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
18:35	116.98	18.28	7.20	.643	5.96	188	7.4	150	
18:40	116.98	15.74	6.96	.623	5.98	199	3.2	150	
18:45	116.98	15.17	6.80	.617	5.45	205	3.8	150	
18:50	116.98	14.86	6.72	.612	5.28	213	2.3	150	
18:55	116.98	14.50	6.66	.610	5.20	216	2.2	150	
19:00	116.98	14.37	6.62	.609	5.15	216	1.1	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/13/2017

Well ID: MW-06E

Initial Static Water Level (feet btoc): 11782

Final Water Level (feet btoc): 11783

Purge Start Time: 8:35

Sample Time: 9:00

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN 1428

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5678-4

Controller Settings: Recharge: 15 **secs Discharge:** 15 **secs Pressure:** 120 **psi**

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
840	11.78	10.65	6.57	.419	8.02	189	0.0	300	
845	11.78	10.90	6.64	.385	3.91	180	0.0	300	
850	11.78	10.91	6.45	.381	3.09	184	0.0	300	
855	11.78	11.01	6.42	.380	3.03	183	0.0	300	
9:00	11.78	11.00	6.42	.380	2.86	182	0.0	300	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/16/2012

Well ID: MW-7A

Initial Static Water Level (feet btoc): 106.88

Final Water Level (feet btoc): 106.91

Purge Start Time: 16:30

Sample Time: 16:50

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN: 111695

Analytical Parameters: LDL VOCs

QC Samples Collected: 5678-29-FD

Sample Number: 5678-29

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 65 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
16:35	106.89	25.43	7.88	.881	5.76	115	0.0	120	
16:40	106.92	25.08	7.16	.862	5.85	127	0.0	120	
16:45	106.92	24.84	7.17	.853	5.74	129	0.0	120	
16:50	106.92	24.46	7.10	.846	5.48	133	0.0	120	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/16/2012

Well ID: MW-7B

Initial Static Water Level (feet btoc): 107.53

Final Water Level (feet btoc): 107.53

Purge Start Time: 15:45

Sample Time: 16:20

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm): (Initial)** Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN: 1428

Analytical Parameters: LDL VOCs

QC Samples Collected: Extra Volume for MS/MSD

Sample Number: 5678-28

Controller Settings: Recharge: 15 **secs Discharge:** 15 **secs Pressure:** 70 **psi**

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
15:50	107.53	26.12	8.06	.911	6.49	14	0.0	100	
15:55	107.53	26.22	8.26	.896	6.35	46	0.0	100	
16:00	107.53	26.24	7.57	.884	6.91	84	0.0	100	
16:05	107.53	26.20	7.62	.880	6.63	93	0.0	100	
16:10	107.53	26.11	7.45	.877	6.28	103	0.0	100	
16:15	107.53	25.94	7.35	.865	6.26	104	0.0	100	
16:20	107.53	25.76	7.35	.868	6.01	109	0.0	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/13/2012

Well ID: MW-08A

Initial Static Water Level (feet btoc): 124.8

Final Water Level (feet btoc): _____

Purge Start Time: 9:50

Sample Time: 11:55

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen Pump SN: 111695

Analytical Parameters: LDL VOCs

QC Samples Collected: 5678-5-FD

Sample Number: 5678-5

Controller Settings: Recharge: 11 secs Discharge: 19 secs Pressure: 70 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
955	124.79	13.41	7.14	—	9.60	166	167	150	
1000	124.79	12.84	7.26	1.21	3.42	171	352	150	
1005	124.79	13.18	7.48	1.23	3.13	162	345	150	
1010	124.79	13.47	7.51	1.23	3.37	160	336	150	
1015	124.79	13.77	7.52	1.23	3.22	160	341	150	pump issue adjust settings
1040	Resume Pumping		4gpm	90psi	Re 9sec	Dis 6sec			
1045	124.79	14.54	7.00	1.23	3.92	188	250	80	
1050	124.79	14.86	6.94	1.23	3.58	188	237	80	
1055	124.79	15.57	6.82	1.23	4.17	190	280	80	
1100	124.79	15.98	6.72	1.24	4.48	190	280	100	
1105	124.79	16.17	6.66	1.24	4.70	188	290	100	
1110	124.79	16.53	7.22	1.24	4.72	160	249	100	
1115	124.79	16.83	7.22	1.24	4.61	160	194	100	
1120	124.79	17.12	7.19	1.24	4.72	159	124	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/13/2017

Well ID: MW-08A

Initial Static Water Level (feet btoc): 124.8

Final Water Level (feet btoc): _____

Purge Start Time: 9.50

Sample Time: 1155

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen Pump SN: 11695

Analytical Parameters: LDL VOCs

QC Samples Collected: 5678-S-FD

Sample Number: 5678-S

Controller Settings: Recharge: 9 secs Discharge: 6 secs Pressure: 90 psi

Cycles Per Minute: 4

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1125	124.79	17.56	7.17	1.24	4.84	159	89.6	100	
1130	124.79	17.85	7.10	1.24	5.00	161	66.1	100	
1135	124.79	18.18	7.03	1.24	5.22	164	43.8	100	
1140	124.79	18.46	7.02	1.24	5.32	163	30.4	100	
1145	124.79	18.82	7.08	1.24	5.46	160	21.5	100	
1150	124.79	18.96	7.10	1.24	5.48	161	19.5	100	
1155	124.79	19.14	7.11	1.24	5.50	160	16.2	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/16/2012

Well ID: MW-9A

Initial Static Water Level (feet btoc): 110.15

Final Water Level (feet btoc): 110.15

Purge Start Time: 1435

Sample Time: 1515

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN: 1695

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-27

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 65 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1440	110.15	25.43	7.50	.724	1.19	-76	0.0	100	
1445	110.15	25.42	7.41	.715	1.97	-38	0.0	100	
1450	110.15	25.39	7.42	.723	2.71	6	0.0	100	
1455	110.15	25.38	7.44	.716	3.12	34	0.0	100	
1500	110.15	25.39	7.38	.721	3.61	45	0.0	100	
1505	110.15	25.40	7.40	.726	3.92	47	0.0	100	
1510	110.15	25.41	7.47	.738	4.14	55	0.0	100	
1515	110.15	25.44	7.44	.739	4.22	57	0.0	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/18/2012

Well ID: MW-13C

Initial Static Water Level (feet btoc): 115.484

Final Water Level (feet btoc): 115.45

Purge Start Time: 12:25

Sample Time: 12:55

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm): (Initial)** Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN: 1428

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-46

Controller Settings: Recharge: 15 **secs Discharge:** 15 **secs Pressure:** 70 **psi**

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1230	115.46	19.48	7.65	.740	12.40	189	74.0	140	
1235	115.46	19.02	7.43	.736	14.86	195	12.5	140	
1240	115.46	18.90	7.24	.739	15.73	197	0.0	140	
1245	115.46	18.97	7.37	.741	14.81	191	0.0	140	
1250	115.46	19.03	7.43	.744	15.48	187	0.0	140	
1255	115.46	19.34	7.47	.748	15.42	187	0.0	140	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/18/2012

Well ID: MW-13BE

Initial Static Water Level (feet btoc): 116.04

Final Water Level (feet btoc): 116.05

Purge Start Time: 13:15

Sample Time: ~~13:30~~ 14:10

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN: 111695

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-47

Controller Settings: Recharge: ~~15~~ 5 secs Discharge: ~~15~~ 25 secs Pressure: ~~90~~ 97/110 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
13:20	116.08	20.41	7.78	.753	8.94	177	0.0	NA	
13:25	116.08	20.45	7.80	.753	8.40	178	0.0	NA	
13:30	116.08	20.49	7.78	.753	8.77	178	0.0	NA	
13:35	116.08	20.73	7.57	.552	8.89	188	0.0	150	
13:40	116.08	20.72	7.49	.543	8.94	192	0.0	150	
13:45	116.08	20.73	7.30	.586	12.11	197	0.0	150	
13:50	116.08	20.97	7.25	.649	12.60	198	0.0	150	
13:55	116.08	20.98	7.29	.676	13.74	198	0.0	150	
14:00	116.08	20.88	7.32	.684	14.82	198	0.0	150	
14:05	116.08	21.09	7.30	.688	14.84	200	0.0	150	
14:10	116.08	21.02	7.35	.688	14.40	200	0.0	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/16/2012

Well ID: MW-19A port 2

Initial Static Water Level (feet btoc): NA

Final Water Level (feet btoc): NA

Purge Start Time: 9:25

Sample Time: 10:10

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-24

Controller Settings: Recharge: 11 secs Discharge: 19 secs Pressure: 62 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
9:30	NA	13.25	7.26	1.50	4.77	-54	0.0	120	
9:35	NA	13.58	6.83	1.28	5.04	-19	0.0	100	
9:40	NA	14.07	7.01	1.23	5.90	10	0.0	100	
9:45	NA	14.08	7.23	1.21	5.59	27	0.0	100	
9:50	NA	14.07	7.10	1.20	5.26	31	0.0	100	
9:55	NA	14.18	7.19	1.19	5.09	48	0.0	100	
10:00	NA	14.38	7.16	1.18	4.77	60	0.0	100	
10:05	NA	14.45	7.16	1.18	4.68	64	0.0	100	
10:10	NA	14.79	7.16	1.18	4.44	70	0.0	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/16/2012

Well ID: MW-19C port 1

Initial Static Water Level (feet btoc): _____

Final Water Level (feet btoc): _____

Purge Start Time: 10:25

Sample Time: 11.10

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-25

Controller Settings: Recharge: 14 secs **Discharge:** 16 secs **Pressure:** 70 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
10:30	NA	15.41	6.73	1.06	4.24	19	0.0	130	
10:35	NA	15.11	6.70	.952	4.35	25	0.0	130	
10:40	NA	15.14	6.69	.895	4.58	47	0.0	130	
10:45	NA	15.35	6.71	.880	4.95	49	0.0	130	
10:50	NA	15.44	6.75	.873	4.88	75	0.0	130	
10:55	NA	15.77	6.74	.864	5.30	90	0.0	130	
11:00	NA	15.98	6.68	.863	5.39	110	0.0	130	
11:05	NA	16.26	6.73	.862	5.49	106	0.0	130	
11:10	NA	16.46	6.78	.861	5.61	109	0.0	130	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/16/2012

Well ID: MW-20A part 4

Initial Static Water Level (feet btoc): NA

Final Water Level (feet btoc): NA

Purge Start Time: ~~8:55~~ 12:30

Sample Time: 1340

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-26

Controller Settings: Recharge: ~~14~~ 9 secs Discharge: ~~10~~ 6 secs Pressure: ~~65~~ 70 psi

Cycles Per Minute: 2 4

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1240	NA	20.42	6.84	.905	5.35	-60	0.0	~~130~~ 90	
1245	NA	21.13	6.76	.895	4.91	-71	0.0	90	
1250	NA	22.03	7.10	.885	4.19	-98	0.0	90	
1255	NA	23.03	7.20	.878	2.91	-118	0.0	90	
1300	NA	23.53	7.20	.876	2.27	-122	0.0	90	
1305	NA	24.17	7.27	.873	1.86	-128	0.0	90	
1310	NA	24.30	7.29	.873	1.77	-131	0.0	90	
1315	NA	24.51	7.22	.875	1.56	-130	0.0	90	
1320	NA	24.73	7.29	.877	1.32	-135	0.0	90	
1325	NA	25.00	7.33	.881	1.14	-137	0.0	90	
1330	NA	25.28	7.31	.885	0.89	-137	0.0	90	
1335	NA	25.40	7.30	.887	0.72	-139	0.0	90	
1340	NA	25.56	7.30	.887	0.57	-138	0.0	90	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/15/12

Well ID: MW-20DC port 3

Initial Static Water Level (feet btoc): NA

Final Water Level (feet btoc): NA

Purge Start Time: 17:10

Sample Time: 18:06

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm): (Initial)** Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: 5678-22-FD

Sample Number: 5678-22

Controller Settings: Recharge: 15 **secs Discharge:** 15 **secs Pressure:** 70 **psi**

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
17:15	NA	19.15	6.18	559	0.00	-98	0.0	100	
17:20	NA	18.86	6.54	569	0.00	-83	0.0	100	
17 25	NA	18.86	6.79	576	0.05	-66	0.0	100	
17 30	NA	18.68	7.06	579	0.42	-59	0.0	100	
17:35	NA	18 71	7.14	577	1 23	-17	0.0	100	
17:40	NA	18.67	7 13	577	1 76	10	0.0	100	
17:45	NA	18.34	7.09	581	2.11	22	0.0	100	
17:50	NA	18.15	7.11	581	2.67	30	0.0	100	
17:55	NA	18 49	7.09	581	3.28	39	0.0	100	
18:00	NA	18.30	7 14	579	3.77	51	0.0	100	
18:03	NA	18.36	7.14	579	3.63	53	0.0	100	
18:06	NA	18.21	7.09	581	3.90	58	0.0	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/15/2012

Well ID: MW-20D port 2

Initial Static Water Level (feet btoc): NA

Final Water Level (feet btoc): NA

Purge Start Time: 16:20

Sample Time: 16:55

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 51678-21

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 75 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
16:25	NA								Horiba not full
16:30	NA	19.69	6.42	.555	0.63	-122	0.0	120	Hydrogen Sulfide odor
16:35	NA	18.23	6.23	.529	0.00	-157	0.0	120	
16:40	NA	18.10	5.99	.518	0.00	-164	0.0	120	
16:45	NA	18.32	5.89	.517	0.00	-167	0.0	120	
16:50	NA	18.43	5.86	.513	0.00	-173	0.0	120	
16:55	NA	18.37	5.88	.512	0.00	-176	0.0	120	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/15/2012

Well ID: MW-20A E port #1

Initial Static Water Level (feet btoc): NA

Final Water Level (feet btoc): NA

Purge Start Time: ~~13:15~~ 13:30

Sample Time: 14:30

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-20

Controller Settings: Recharge: 16 secs Discharge: 14 secs Pressure: 75 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
13:35	NA	16.78	6.07	.457	0.74	-33	0.0	150	
13:40	NA	16.61	6.21	.445	1.14	-33	0.0	150	
13:45	NA	16.50	6.46	.434	1.67	-25	0.0	150	
13:50	NA	16.55	6.70	.430	1.95	-8	0.0	150	
13:55	NA	16.59	7.45	.430	1.98	-29	0.0	150	
14:00	NA	16.43	7.53	.427	1.91	-13	0.0	150	
14:05	NA	16.51	7.63	.427	1.76	-5	0.0	150	
14:10	NA	16.96	7.75	.425	1.73	4	0.0	150	
14:15	NA	16.96	7.65	.425	1.76	4	0.0	150	
14:20	NA	16.96	7.65	.423	1.72	20	0.0	150	
14:25	NA	17.26	7.59	.422	1.89	26	0.0	150	
14:30	NA	17.17	7.60	.422	1.79	26	0.0	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/14/2012

Well ID: MW-30A port 4

Initial Static Water Level (feet btoc): NA

Final Water Level (feet btoc): NA

Purge Start Time: 1400

Sample Time: 14.15

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-15

Controller Settings: Recharge: 14 secs Discharge: 16 secs Pressure: 64 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
14.05	NA	20.37	6.91	.767	8.51	-142	2.1	100	
14:10	NA	20.57	6.89	.776	8.21	-146	2.5	100	
14:15	NA	20.68	6.90	.777	8.24	-147	0.0	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/14/12

Well ID: MW-30C port 3

Initial Static Water Level (feet btoc): NA

Final Water Level (feet btoc): NA

Purge Start Time: 14:30

Sample Time: 15:15

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-16

Controller Settings: Recharge: 8 secs Discharge: 7 secs Pressure: 72 psi

Cycles Per Minute: 4

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1435	NA	21.29	7.04	.808	7.70	-140	0.0	100	
1440	NA	21.44	7.12	.806	6.16	-135	0.0	100	
1445	NA	21.55	7.25	.800	7.15	-128	0.0	100	
1450	NA	21.51	7.42	.776	8.98	-108	0.0	100	
1455	NA	21.39	7.52	.764	8.50	-92	0.0	100	
1500	NA	21.33	7.52	.764	8.63	-86	0.0	100	
1505	NA	21.35	7.57	.761	8.64	-73	0.0	100	
1510	NA	21.38	7.67	.760	8.93	-69	0.0	100	
1515	NA	21.41	7.65	.760	8.86	-65	0.0	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/14/2012

Well ID: MW-30D part 2

Initial Static Water Level (feet btoc): NA

Final Water Level (feet btoc): NA

Purge Start Time: 16:50

Sample Time: 17 35

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-17

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 75 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1655	NA	23.09	6.48	.964	1.06	-166	4.8	100	
1700	NA	22.10	6.32	.921	0.00	-229	6.6	100	
1705	NA	22.11	6.50	.805	0.00	-247	6.5	100	
1710	NA	21.84	6.71	.751	0.00	-259	14.1	100	
1715	NA	21.68	6.86	.760	0.00	-274	14.3	100	
1720	NA	21.52	6.95	.765	0.00	-279	15.2	100	
1725	NA	21.39	7.02	.773	0.01	-281	11.3	100	
1730	NA	21.29	7.06	.765	0.15	-276	12.2	100	
1735	NA	21.08	7.09	.771	0.47	-270	~~8.10~~ 11.9	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/14/12

Well ID: MW-30E post 1

Initial Static Water Level (feet btoc): NA

Final Water Level (feet btoc): NA

Purge Start Time: 13:00

Sample Time: 13:40

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-14

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 90 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
13:15	NA	19.37	6.16	.791	0.00	-121	0.0	150	
13:20	NA	20.86	6.71	.745	5.67	-122	0.0	150	
13:25	NA	20.79	7.45	.737	7.63	-119	0.0	150	
13:30	NA	20.62	7.67	.731	7.74	-125	0.0	150	
13:35	NA	20.46	7.71	.733	8.29	-121	0.0	150	
13:40	NA	20.29	7.75	.731	8.55	-117	0.0	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/14/2012

Well ID: MW-3iA port 2

Initial Static Water Level (feet btoc): NA

Final Water Level (feet btoc): NA

Purge Start Time: 18:00

Sample Time: 18 20

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-18

Controller Settings: Recharge: 14 secs Discharge: 16 secs Pressure: 64 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
18:05	NA	21 17	7.12	.898	0 72	-239	2.7	100	
18:10	NA	21 18	6.89	.905	0.53	-232	4.3	100	
18:15	NA	21. 11	6 81	.891	0.21	-229	4.1	100	
18:20	NA	21 00	6.80	.884	0.00	-230	4.9	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/15/2012

Well ID: MW-31C, port 1

Initial Static Water Level (feet btoc): NA

Final Water Level (feet btoc): NA

Purge Start Time: 11 25

Sample Time: 12:00

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: MS/MSD

Sample Number: 5678-19

Controller Settings: Recharge: 8 secs Discharge: 7 secs Pressure: 72 psi

Cycles Per Minute: 4

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
11:30	NA	19.20	4.61	.364	4.97	243	0.0	130	
11.35	NA	15.64	6.46	.542	5.92	138	0.0	130	
11 40	NA	15.51	6.34	.472	6.25	100	0.0	130	
11.45	NA	15.55	6.25	.459	6.38	82	0.0	130	
11 50	NA	15.54	6.26	.456	6.50	75	0.0	130	
11.55	NA	15.58	6.26	.455	6.47	74	0.0	130	
12:00	NA	15.62	6.26	.454	6.42	76	0.0	130	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-18-12

Well ID: MW-47B

Initial Static Water Level (feet btoc): 117.82

Final Water Level (feet btoc): 117.85

Purge Start Time: 14:40

Sample Time: 15:30

Samplers= Signatures: BLW/JS

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5678-48

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 65 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1445	117.87	18.62	7.61	0.892	7.25	301	0.0	200	
1450	117.87	17.83	7.49	0.897	6.51	308	0.0	200	
1455	117.87	17.64	7.44	0.901	6.22	310	0.0	200	
1500	117.87	17.34	7.45	0.902	5.54	313	0.0	200	
1505	117.87	17.37	7.42	0.902	5.42	317	0.0	200	
1510	117.87	17.45	7.44	0.903	5.27	319	0.0	200	
1515	117.87	17.36	7.43	0.901	4.65	320	0.0	200	
1520	117.87	17.28	7.47	0.902	4.38	326	0.0	200	
1525	117.87	17.28	7.48	0.904	4.53	326	0.0	200	
1530	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3-18-12

Well ID: MW-47C

Initial Static Water Level (feet btoc): 119.30

Final Water Level (feet btoc): 119.31

Purge Start Time: 15:38

Sample Time: 16:25

Samplers= Signatures: B. Whyte

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5678-49

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 80 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1545	119.50	17.31	7.56	0.879	6.06	335	0.0	180	
1550	119.50	16.45	7.33	0.875	4.32	343	0.0	180	
1555	119.50	16.00	7.29	0.866	3.62	346	0.0	180	
1600	119.50	15.55	7.26	0.866	3.38	346	0.0	180	
1605	119.50	15.50	7.27	0.864	3.41	345	0.0	180	
1610	119.50	15.42	7.27	0.866	3.18	347	0.0	180	
1615	119.50	15.38	7.25	0.868	3.02	348	0.0	180	
1620	119.50	15.57	7.25	0.865	3.06	348	0.0	180	
1625	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3-18-12

Well ID: MW-47D

Initial Static Water Level (feet btoc): 117.81

Final Water Level (feet btoc): 117.81

Purge Start Time: 16:35

Sample Time: 17:35

Samplers= Signatures:

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5678-50

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 90 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1638	117.80	16.84	7.37	0.767	6.67	334	189	170	
1643	117.80	16.38	7.39	0.743	5.70	337	106	170	
1648	117.80	16.21	7.35	0.743	5.02	334	55.4	170	
1653	117.80	15.58	7.37	0.742	4.79	336	32.6	170	
1658	117.80	15.70	7.36	0.742	4.37	337	27.2	170	
1703	117.80	15.43	7.35	0.740	4.33	335	16.3	170	
1708	117.80	15.37	7.36	0.741	4.33	335	15.2	170	
1713	117.80	15.48	7.36	0.741	4.15	336	8.2	170	
1718	117.80	15.44	7.36	0.742	3.75	337	7.9	170	
1723	117.80	15.48	7.34	0.742	3.82	336	4.6	170	
1728	117.80	15.41	7.38	0.739	3.86	335	0.8	170	
1733	117.80	15.34	7.39	0.741	3.78	337	0.0	170	
1735	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/17/2012

Well ID: MW-48B

Initial Static Water Level (feet btoc): 117.39

Final Water Level (feet btoc): 117.55

Purge Start Time: ~~11:25~~ 11:40

Sample Time: 1400

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen Pump SN: 1428

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-36

Controller Settings: Recharge: _____ secs Discharge: _____ secs Pressure: _____ psi

Cycles Per Minute: _____

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
11:45 ~~11:30~~									Horiba not full
11:50	117.47	18.39	7.19	1.03	8.79	177	456	100	
11:55	117.50	19.15	7.11	1.02	10.14	177	400	100	
12:00	117.50	19.63	7.07	1.02	9.91	178	328	100	
12:05	117.50	20.23	7.31	1.02	9.61	166	274	100	
12:10	117.50	20.86	7.36	1.02	9.82	164	223	100	
12:15	117.50	22.71	7.38	.994	9.55	164	229	100	
12:20	117.50	23.20	7.32	.990	9.55	162	186	100	
12:25	117.50	23.42	7.39	.988	9.17	162	186	100	
12:30	117.50	23.57	7.39	.991	8.95	162	154	100	
12:35	117.50	23.85	7.38	.990	8.39	161	141	100	
12:40	117.50	24.51	7.41	992	8.41	161	131	100	
12:45	117.50	24.63	7.28	991	8.97	167	101	100	
12:50	117.50	24.68	7.26	.987	8.53	168	96.9	100	Increase flow

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/17/2012

Well ID: MW-48B

Initial Static Water Level (feet btoc): 11.39

Final Water Level (feet btoc): 11.55

Purge Start Time: 11.40

Sample Time: 1400

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm): (Initial)** Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen Pump SN: 1428

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-36

Controller Settings: Recharge: 15 **secs Discharge:** 15 **secs Pressure:** 65 **psi**

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1255	117.50	24.75	7.25	.988	10.10	167	82.6	130	
1300	117.50	24.86	7.34	.996	9.84	163	75.0	130	
1305	117.50	25.03	7.43	.996	9.99	159	63.7	130	
1310	117.50	25.14	7.47	.998	9.76	156	63.1	130	
1315	117.50	24.84	7.33	.968	10.10	173	59.8	130	
1320	117.50	24.18	7.15	.954	10.01	178	54.0	130	
1325	117.50	23.89	7.19	.972	10.12	176	36.6	130	
1330	117.50	23.79	7.22	.976	10.21	173	33.0	130	
1335	117.50	23.70	7.32	.977	9.72	1606	24.8	130	
1340	117.50	23.67	7.39	.981	9.92	167	21.6	130	
1345	117.50	23.69	7.42	.993	10.22	167	18.2	130	
1350	117.50	23.79	7.44	.992	9.89	168	16.2	130	
1355	117.50	23.83	7.36	.960	10.22	168	13.8	130	
1400	117.50	23.94	7.34	.962	9.82	168	12.0	130	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/17/2012

Well ID: MW-48C

Initial Static Water Level (feet btoc): 11.24

Final Water Level (feet btoc): 11.24

Purge Start Time: 1545

Sample Time: 1700

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN: 11695

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-37

Controller Settings: Recharge: 15 secs **Discharge:** 15 secs **Pressure:** 70 psi

Cycles Per Minute: 7

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1550	11.23	25.20	6.94	.790	6.28	184	107	150	
1555	11.23	25.17	6.80	.786	6.55	187	75.1	150	
1600	11.23	25.12	6.83	.780	6.62	187	52.5	150	
1605	11.23	25.08	6.88	.779	7.35	187	41.3	150	
1610	11.23	25.07	6.90	.780	7.52	184	35.8	150	
1615	11.23	25.08	7.00	.778	7.56	178	30.0	150	
1620	11.23	25.12	7.18	.771	6.69	172	23.1	150	
1625	11.23	25.15	7.21	.778	6.90	172	19.3	150	
1630	11.23	25.26	7.16	.781	7.07	171	17.7	150	
1635	11.23	25.38	7.18	.780	7.38	173	15.0	150	
1640	11.23	25.45	7.15	.776	6.98	175	13.2	150	
1645	11.23	25.50	7.10	.766	7.32	174	10.3	150	
1650	11.23	25.52	7.08	.763	6.82	177	9.3	150	
1655	11.23	25.52	7.04	.765	7.02	179	6.8	150	
1700	11.23	25.53	7.00	.767	7.20	182	4.6	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

HGL CDM

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/17/2012

Well ID: MW-49S <8D

Initial Static Water Level (feet btoc): 116.52

Final Water Level (feet btoc): 116.52

Purge Start Time: 17:10

Sample Time: 17:45

Samplers= Signatures: SH/KS

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN: 1428

Analytical Parameters: LDL VOCs

QC Samples Collected: 5678-38-FD

Sample Number: 5678-38

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 80 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1715	116.52	25.99	7.83	0.00	8.25	164	115	100	horiba not full
1720	116.52	26.08	7.69	.713	11.73	186	33.2	100	
1725	116.52	25.93	7.50	.720	16.08	189	11.7	120	
1730	116.52	25.13	7.46	.735	13.46	191	3.7	120	
1735	116.52	25.15	7.53	.723	13.49	189	0.0	120	
1740	116.52	25.06	7.60	.728	14.34	185	0.0	120	
1745	116.52	25.02	7.61	.732	14.44	184	0.0	120	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/19/12

Well ID: MW-49B

Initial Static Water Level (feet btoc): 118.34

Final Water Level (feet btoc): ~~118.11~~ 118.21

Purge Start Time: 9:35

Sample Time: 9:50

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-57

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 70 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
9.40	118.38	14.87	6.94	.764	7.00	192	0.0	200	
9:45	118.38	14.83	6.96	.754	7.25	187	0.0	200	
9.50	118.38	14.77	6.98	.745	7.17	182	0.0	200	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/19/2012

Well ID: MW-49C

Initial Static Water Level (feet btoc): 117.71

Final Water Level (feet btoc): 117.71

Purge Start Time: ~~8:50~~ 8:45

Sample Time: 9:20

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen Pump SN: 11695

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-55

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 75 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
8:50	117.73	14.27	7.14	.677	9.36	190	12.0	180	
8:55	117.73	13.89	6.95	.778	8.92	188	18.1	180	
9:00	117.73	13.11	6.65	.859	8.08	180	37.7	180	
9:05	117.73	13.10	6.76	.871	7.61	173	5.9	180	
9:10	117.73	13.02	6.78	.872	7.40	167	0.0	180	
9:15	117.73	12.84	6.82	.876	7.39	168	0.0	180	
9.20	117.73	12.58	6.87	.876	7.31	176	0.0	180	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/19/12

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Well ID: MW-49D

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Initial Static Water Level (feet btoc): 116.72

Analytical Parameters: LDL VOCs

Final Water Level (feet btoc): 116.72

QC Samples Collected: None

Purge Start Time: ~~8:45~~ 8:50

Sample Number: 5678-56

Sample Time: 10:35

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 87 psi

Samplers= Signatures: SH/KJ

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
8:55	115.38	15.58	6.66	.530	7.33	154	24.3	120	
9:00	115.38	15.00	6.96	.548	5.49	182	19.7	120	
9:05	115.38	14.22	7.06	.561	5.23	196	21.2	120	
9:10	115.38	14.08	7.11	.573	5.23	210	20.8	120	
9:15	115.38	13.85	7.18	.577	5.18	227	19.2	120	
9:20	115.38	13.81	7.16	.580	5.17	246	17.5	120	
9:25	115.38	13.93	7.23	.576	4.30	249	16.3	120	
9:30	115.38	14.57	7.17	.569	3.80	262	14.7	120	
9:35	115.38	13.69	7.21	.586	4.50	261	13.7	120	
9:40	115.38	13.70	7.21	.586	4.51	269	13.4	120	
9:45	115.38	13.94	7.20	.586	4.49	273	12.0	120	
9:50	115.38	13.81	7.24	.587	4.31	276	9.1	120	
9:55	115.38	13.81	7.23	.587	4.24	279	8.7	120	
10:00	115.38	13.89	7.26	.585	4.18	286	7.3	120	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/19/12

Well ID: MW-49D

Initial Static Water Level (feet btoc): 116.72

Final Water Level (feet btoc): 116.72

Purge Start Time: 8:50

Sample Time: 10:35

Samplers= Signatures: SH/KS

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5078-56

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 87 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
10:05	115.38	14.35	7.18	.579	3.61	293	6.7	120	
10:10	115.38	14.65	7.17	.576	3.40	295	6.0	120	
10:15	115.38	14.62	7.31	.590	4.23	252	5.5	120	
10:20	115.38	13.69	7.26	.601	4.18	258	1.2	120	
10:25	115.38	13.51	7.22	.601	4.32	272	0.4	120	
10:30	115.38	13.59	7.22	.599	4.26	278	0.8	120	
10:35	115.38	13.59	7.23	.598	4.32	282	1.0	120	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/18/2013

Well ID: MW-50B

Initial Static Water Level (feet btoc): 117.06

Final Water Level (feet btoc): 117.19

Purge Start Time: 14:35

Sample Time: 15:45

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN: 1428

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-52

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 65 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
14:40	11722	20.51	8.55	.635	11.74	173	0.0	100	
14:45	11722	19.21	7.57	.696	11.34	194	25.5	100	
14:50	11722	18.82	7.06	.752	11.65	202	44.6	100	
14:55	11722	18.42	6.99	.778	11.38	202	39.3	100	
15:00	11722	18.34	6.98	.793	11.57	201	28.5	100	
15:05	11722	18.45	6.94	.803	10.85	204	22.0	100	
15:10	11722	18.70	6.88	.808	10.61	206	20.6	100	
15:15	11722	18.61	6.85	.808	11.48	206	16.6	100	
15:20	11722	18.43	6.83	.810	10.30	207	16.3	100	
15:25	11722	18.34	6.92	.807	10.91	203	12.1	100	
15:30	11722	18.31	6.89	.806	10.91	205	8.6	100	
15:35	11722	18.15	6.85	.803	10.98	208	6.7	100	
1540	11722	18.04	6.85	.798	10.03	210	5.1	100	
1545	11722	18.35	6.82	.796	10.36	212	3.8	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/18/2012

Well ID: MW-50C

Initial Static Water Level (feet btoc): 118.60

Final Water Level (feet btoc): 118.59

Purge Start Time: 15:55

Sample Time:

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN: 11695

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-53

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 75 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
16:00	118.60	20.62	7.35	.663	10.32	193	9.9	150	
16:05	118.60	19.36	7.29	.644	14.59	208	28.6	150	
16:10	118.60	18.59	7.17	.693	15.27	217	378	150	
16:15	118.60	18.57	7.18	.726	15.19	216	322	150	
16:20	118.60	18.77	7.27	.729	14.67	215	240	150	
16:25	118.60	19.12	7.29	.731	12.54	214	150	150	
16:30	118.60	18.95	7.33	.730	12.20	215	115	150	
16:35	118.60	18.54	7.41	.729	12.19	213	83.6	150	
16:40	118.60	18.36	7.44	.729	11.28	212	68.2	150	
16:45	118.60	18.26	7.45	.730	10.80	210	56.7	150	
16:50	118.60	18.33	7.43	.730	10.77	212	52.5	150	
16:55	118.60	17.92	7.47	.730	10.55	214	41.1	150	
17:00	118.60	17.70	7.46	.731	10.11	210	40.0	150	
17:05	118.60	17.69	7.47	.731	10.35	211	37.2	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/18/2012

Well ID: MW-50D

Initial Static Water Level (feet btoc): 116.89

Final Water Level (feet btoc): 116.89

Purge Start Time: 17:15

Sample Time: 18:05

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN: 1428

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-SH

Controller Settings: Recharge: 16 secs Discharge: 14 secs Pressure: 82.5 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
17:20	116.89	17.63	785	.529	9.87	206	9.1	150	
17:25	116.89	17.60	6.73	.606	9.48	238	80.4	150	
17:30	116.89	17.48	6.62	.642	8.06	239	60.0	150	
17:35	116.89	17.40	6.77	.655	8.03	234	55.9	150	
17:40	116.89	17.63	6.81	.661	7.72	229	45.2	150	
17:45	116.89	17.72	6.71	.663	7.87	230	37.2	150	
17:50	116.89	17.49	6.85	.663	7.96	222	39.2	150	
17:55	116.89	17.36	6.92	.663	7.71	214	32.5	150	
18:00	116.89	17.13	6.92	.663	7.76	214	32.6	150	
18:05	116.89	17.06	6.99	.663	7.65	216	30.8	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/18/2012

Well ID: MW-51B

Initial Static Water Level (feet btoc): 117.28

Final Water Level (feet btoc): 117.28

Purge Start Time: 8:25

Sample Time: 9:05

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN: 11695

Analytical Parameters: LDL VOCs

QC Samples Collected: 5678-40-FD

Sample Number: 5678-40

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: ~~150~~ 65 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
8:30	117.31	18.81	4.19	0.003	10.20	248	98.2	150	
8:35	117.31	18.22	6.82	.861	11.36	151	12.4	150	
8:40	117.31	17.54	7.20	.787	11.95	140	6.5	150	
8:45	117.31	17.23	7.27	.786	12.28	139	0.0	150	
8:50	117.31	17.02	7.25	.787	12.58	147	0.0	150	
8:55	117.31	16.85	7.35	.795	12.72	150	0.0	150	
9:00	117.31	16.82	7.43	.799	12.75	144	0.0	150	
9:05	117.31	16.81	7.43	.801	12.98	146	0.0	150	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/18/2012

Well ID: MW-51C

Initial Static Water Level (feet btoc): 117.26

Final Water Level (feet btoc): 117.29

Purge Start Time: 9:30

Sample Time: 10:25

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen Pump SN: 1428

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-42

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 75 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
9:35	117.30	16.91	7.92	.734	16.02	142	81.5	100	
9:40	117.30	16.89	7.64	.731	16.05	157	65.1	100	
9:45	117.30	16.88	7.73	.731	15.99	159	41.4	100	
9:50	117.30	16.89	7.77	.725	17.26	159	31.8	100	
9:55	117.30	16.96	7.77	.721	17.36	160	23.3	100	
10:00	117.30	16.98	7.87	.720	17.96	154	23.7	100	
10:05	117.30	17.09	7.94	.720	19.49	154	16.5	100	
10:10	117.30	17.12	7.94	.724	19.87	156	16.1	100	
10:15	117.30	17.30	7.85	.721	17.19	163	10.4	100	
10:20	117.30	17.33	7.87	.724	17.32	166	10.5	100	
10:25	117.30	17.41	7.78	.720	18.31	167	10.2	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/18/2012

Well ID: MW-51D

Initial Static Water Level (feet btoc): 117.20

Final Water Level (feet btoc): 117.20

Purge Start Time: 10:35

Sample Time: 11:00

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen pump SN 11695

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-43

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 85 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
10:40	117.20	17.78	8.08	.684	18.32	161	9.6	100	
10:45	117.20	17.96	8.07	.746	15.04	164	32.2	100	
10:50	117.20	18.13	8.16	749	15.68	165	80.3	100	
10:55	117.20	18.45	8.07	.740	16.83	172	87.0	100	
11:00	117.20	18.59	8.10	.731	~~18.14~~ 16.70	172	87.7	100	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/14/2012

Well ID: Rolls Old Well

Initial Static Water Level (feet btoc): NA

Final Water Level (feet btoc): NA

Purge Start Time: 10:00

Sample Time: 10:15

Samplers= Signatures: SH/KJ

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-12

Controller Settings: Recharge: _____ secs Discharge: _____ secs Pressure: _____ psi

Cycles Per Minute: _____

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
10:15	NA	14.20	7.40	1.07	7.07	77	0.0	NA	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3/14/2012

Well ID: Rolls New Well

Initial Static Water Level (feet btoc): NA

Final Water Level (feet btoc): NA

Purge Start Time: 10:00

Sample Time: 10:20

Samplers= Signatures: SH/KJ

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: None

Sample Number: 5678-13

Controller Settings: Recharge: _____ secs Discharge: _____ secs Pressure: _____ psi

Cycles Per Minute: _____

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
10:20	NA	12.56	7.55	.513	11.00	112	0.0	NA	

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-18-12

Well ID: MW-10A

Initial Static Water Level (feet btoc): 107.86

Final Water Level (feet btoc): 107.86

Purge Start Time: 10:20

Sample Time: 11:00

Samplers= Signatures: B W

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-42

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 65 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1023	107.86	15.03	7.48	0.831	8.23	327	32.6	200	
1028	107.86	14.89	7.38	0.907	6.68	338	38.5	200	
1033	107.86	14.77	7.37	0.923	6.89	342	33.7	200	
1038	107.86	14.79	7.34	0.928	6.69	344	0.0	200	
1043	107.86	15.00	7.30	0.929	7.01	344	0.0	200	
1048	107.86	15.09	7.36	0.931	6.69	349	0.0	200	
1053	107.86	15.12	7.37	0.928	6.80	348	0.0	200	
1100	COLLECT	SAMPLE							

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3/18/12

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Well ID: MW-10B

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Initial Static Water Level (feet btoc): 108.88

Analytical Parameters: LDL VOCs

Final Water Level (feet btoc): 108.89

QC Samples Collected: NA

Purge Start Time: 09:25

Sample Number: 5680-41

Sample Time: 10:10

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 70 psi

Samplers= Signatures:

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
0937	109.00	15.51	7.53	0.696	7.48	235	0.0	200	
0942	109.00	14.60	7.48	0.825	7.29	278	0.0	200	
0947	109.00	14.19	7.32	0.837	7.09	300	0.0	200	
0952	109.00	14.14	7.36	0.843	6.97	311	0.0	200	
0957	109.00	14.25	7.33	0.846	6.69	316	0.0	200	
1002	109.00	14.36	7.31	0.845	6.77	321	0.0	200	
1007	109.00	14.48	7.35	0.844	6.80	325	0.0	200	
1010	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3-14-12

Well ID: MW-11A

Initial Static Water Level (feet btoc): 98.14

Final Water Level (feet btoc): 98.18

Purge Start Time: 1735

Sample Time: 18:05

Samplers= Signatures: BLW

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-19

Controller Settings: Recharge: 10 secs Discharge: 10 secs Pressure: 65 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1738	98.19	22.59	7.08	0.620	5.25	309	0.0	200	
1743	98.19	17.46	6.82	0.537	6.00	326	0.0	200	
1748	98.19	15.70	6.80	0.522	4.72	331	0.0	200	
1753	98.19	15.49	6.70	0.515	4.40	330	0.0	200	
1758	98.19	15.10	6.68	0.512	4.41	323	0.0	200	
1803	98.19	15.11	6.67	0.508	4.38	318	0.0	200	
1805	COLLECT	SAMPLE							

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-14-12

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Well ID: MW-12A

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Initial Static Water Level (feet btoc): 112.21

Analytical Parameters: LDL VOCs

Final Water Level (feet btoc): 112.28

QC Samples Collected: NA

Purge Start Time: 1010

Sample Number: 5680-14

Sample Time: 10:45

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 70 psi

Samplers= Signatures:

Cycles Per Minute: 70

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1012	112.17	14.22	7.00	0.650	6.38	311	0.0	160	
1017	112.17	14.26	6.99	0.910	6.75	273	0.0	160	
1022	112.17	14.43	7.00	0.947	6.35	280	0.0	160	
1027	112.17	14.67	6.98	0.965	6.10	289	0.0	160	
1032	112.17	14.73	7.00	0.965	6.07	295	0.0	160	
1037	112.17	14.93	6.99	0.972	6.10	299	0.0	160	
1042	112.17	15.21	7.00	0.973	5.92	301	0.0	160	
1045	COLLECT	SAMPLE							

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-14-12

Well ID: MW-12C

Initial Static Water Level (feet btoc): 112.91

Final Water Level (feet btoc): 112.92

Purge Start Time: 1053

Sample Time: 11:30

Samplers= Signatures: B L W F

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: DUPLICATE : 5680-10-FD

Sample Number: 5680-10

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 90 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1056	112.91	15.29	7.02	0.702	6.60	323	0.0	200	
1101	112.91	15.02	6.96	0.622	6.01	335	0.0	200	
1106	112.91	15.11	6.99	0.613	5.71	345	0.0	200	
1111	112.91	15.14	6.91	0.614	5.86	345	0.0	200	
1116	112.91	15.25	6.92	0.614	5.72	346	0.0	200	
1121	112.91	15.31	6.94	0.615	5.67	348	0.0	200	
1126	112.91	15.41	6.94	0.615	5.47	347	0.0	200	
1130	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-14-12

Well ID: MW-12D

Initial Static Water Level (feet btoc): 112.12

Final Water Level (feet btoc): 112.10

Purge Start Time: 0845

Sample Time: 10:00

Samplers= Signatures: BLW

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-13

Controller Settings: Recharge: 15 **secs Discharge:** 15 **secs Pressure:** 95 **psi**

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
0855	112.12	11.93	6.43	0.518	5.33	229	8.9	150	
0900	112.12	11.85	6.70	0.494	4.43	256	39.4	150	
0905	112.12	12.10	6.82	0.469	4.43	281	50.7	150	
0910	112.12	12.37	6.87	0.464	4.46	294	50.6	150	
0915	112.12	12.43	6.80	0.465	4.27	303	44.3	150	
0920	112.12	12.49	6.84	0.466	4.13	307	33.2	150	
0925	112.12	12.65	6.93	0.466	4.29	312	23.6	150	
0930	112.12	12.74	6.96	0.469	4.06	318	12.0	150	
0935	112.12	12.90	6.92	0.471	4.16	319	6.5	150	
0940	112.12	12.97	6.95	0.472	4.06	320	2.2	150	
0945	112.12	13.03	6.95	0.475	3.95	320	0.0	150	
0950	112.12	13.21	6.89	0.476	4.02	318	0.0	150	
0955	112.12	13.41	6.95	0.475	3.98	323	0.0	150	
1000	COLLECT	SAMPLE							

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3-13-12

Well ID: MW-14A

Initial Static Water Level (feet btoc): 100.67

Final Water Level (feet btoc): 100.71

Purge Start Time: 16:55

Sample Time: 17:50

Samplers= Signatures:

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-11

Controller Settings: Recharge: 7 secs Discharge: 13 secs Pressure: 60 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1715	100.69	27.71	6.98	0.000	8.71	264	117	180	
1720	100.69	25.76	7.03	0.649	5.92	258	0.0	180	
1725	100.69	23.93	7.04	0.692	4.05	266	0.0	180	
1730	100.69	23.02	6.97	0.674	3.92	270	0.0	180	
1735	100.69	22.64	6.81	0.689	3.96	275	0.0	180	
1740	100.69	22.30	6.74	0.683	3.89	281	0.0	180	
1745	100.69	22.17	6.71	0.680	3.85	282	0.0	180	
1750	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-17-12

Well ID: MW-16A

Initial Static Water Level (feet btoc): 107.44

Final Water Level (feet btoc): — *

Purge Start Time: 09:30

Sample Time: 10:15

Samplers= Signatures: BLW

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-36

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 65 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
0935	— *	14.07	7.00	0.947	6.67	310	0.0	200	* WATER LEVEL METER STOPPED WORKING
0940	—	14.06	6.99	0.962	6.61	319	0.0	200	
0945	—	14.04	7.01	0.966	6.51	324	0.0	200	
0950	—	14.00	6.98	0.968	6.43	327	0.0	200	
0955	—	14.06	6.96	0.971	6.43	330	0.0	200	
1000	—	14.04	6.98	0.979	6.54	316	0.0	200	
1005	—	14.32	7.01	0.975	6.31	312	0.0	200	
1010	—	14.40	6.99	0.975	6.37	321	0.0	200	
1015	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-17-12

Well ID: MW-16C

Initial Static Water Level (feet btoc): 107.66

Final Water Level (feet btoc): 107.67

Purge Start Time: 08:35

Sample Time: 09:20

Samplers= Signatures: [signature]

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-35

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 82 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
0842	107.67	15.34	7.19	0.691	11.81	196	0.0	200	
0847	107.67	13.91	7.02	0.809	7.34	242	0.0	200	
0852	107.67	13.50	6.95	0.826	6.68	275	0.0	200	
0857	107.67	13.15	7.05	0.830	6.46	300	0.0	200	
0902	107.67	13.11	7.04	0.832	6.49	307	0.0	200	
0907	107.67	13.09	7.05	0.830	6.40	319	0.0	200	
0912	107.67	13.10	7.06	0.830	6.43	320	0.0	200	
0917	107.67	13.09	7.06	0.831	6.47	327	0.0	200	
0920	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-17-12

Well ID: MW-17A

Initial Static Water Level (feet btoc): —*

Final Water Level (feet btoc): —

Purge Start Time: 11:15

Sample Time: 12:05

Samplers= Signatures: Bill Wit

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-37

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 65 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1122	—*	16.85	7.05	0.918	6.40	267	0.0	200	*WATER LEVEL METER NOT WORKING
1127	—	16.33	7.18	0.863	6.39	293	0.0	200	
1132	—	14.94	7.26	0.885	6.54	313	0.0	200	
1137	—	14.64	7.27	0.916	6.52	326	0.0	200	
1142	—	14.49	7.33	0.917	6.28	332	0.0	200	
1147	—	14.39	7.33	0.915	6.31	337	0.0	200	
1152	—	14.45	7.31	0.918	6.26	338	0.0	200	
1157	—	14.60	7.33	0.917	6.17	341	0.0	200	
1202	—	14.59	7.33	0.916	6.10	341	0.0	200	
1205	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-17-12

Well ID: MW-17C

Initial Static Water Level (feet btoc): 92.69

Final Water Level (feet btoc): 92.69

Purge Start Time: 15:00

Sample Time: 15:30

Samplers= Signatures: [signature]

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: DUPLICATE : SG80-24-FD

Sample Number: SG80-24

Controller Settings: Recharge: 10 secs **Discharge:** 20 secs **Pressure:** 72 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1503	92.71	18.37	7.38	0.541	3.26	331	0.0	200	
1508	92.71	18.16	7.34	0.574	3.86	336	0.0	200	
1513	92.71	18.42	7.33	0.578	4.33	336	0.0	200	
1518	92.71	18.49	7.32	0.580	4.45	336	0.0	200	
1523	92.71	18.80	7.30	0.581	4.59	336	0.0	200	
1528	92.71	18.83	7.31	0.582	4.50	338	0.0	200	
1530	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-17-12

Well ID: MW-17D

Initial Static Water Level (feet btoc): 92.67

Final Water Level (feet btoc): 92.68

Purge Start Time: 13:45

Sample Time: 14:50

Samplers= Signatures: BLW

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-38

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 95 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1410	92.70	18.76	7.39	0.537	7.29	310	0.0	200	
1415	92.70	17.31	7.61	0.358	5.98	307	0.0	200	
1420	92.70	17.19	7.56	0.331	4.86	307	0.0	200	
1425	92.70	16.74	7.60	0.323	4.30	310	0.0	200	
1430	92.70	16.86	7.58	0.317	4.01	310	0.0	200	
1435	92.70	16.88	7.59	0.314	3.28	312	0.0	200	
1440	92.70	16.90	7.54	0.312	3.20	313	0.0	200	
1445	92.70	16.69	7.54	0.309	2.99	315	0.0	200	
1450	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-15-12

OVM: FID G PID G **In Casing (ppm): (Initial)** Not Applicable **(Vented to)** atmosphere

Well ID: MW-18A

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Initial Static Water Level (feet btoc): 106.60

Analytical Parameters: LDL VOCs

Final Water Level (feet btoc): 106.58

QC Samples Collected: NA

Purge Start Time: 12:25

Sample Number: 5680-20

Sample Time: 13:20

Controller Settings: Recharge: 9 **secs Discharge:** 6 **secs Pressure:** 80 **psi**

Samplers= Signatures: B

Cycles Per Minute: 4

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1250	10660	17.30	6.41	0.449	5.27	212	0.0	100	
1255	106.60	17.12	6.42	0.439	5.34	226	0.0	100	
1300	106.60	17.09	6.41	0.434	5.33	235	0.0	100	
1305	106.60	17.14	6.42	0.426	5.13	248	0.0	100	
1310	106.60	17.31	6.41	0.418	5.31	254	0.0	100	
1315	106.60	17.47	6.43	0.413	5.22	260	0.0	100	
1320	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-15-12

Well ID: MW-18C

Initial Static Water Level (feet btoc): 107.94

Final Water Level (feet btoc): 107.92

Purge Start Time: 14:35

Sample Time: 15:10

Samplers= Signatures: B. Wh

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-22

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 85 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1438	107.94	16.11	6.98	0.631	3.71	269	0.0	200	
1443	107.94	16.37	6.96	0.724	4.81	279	0.0	200	
1448	107.94	16.33	6.96	0.730	4.78	278	0.0	200	
1453	107.94	16.29	6.96	0.731	4.77	276	0.0	200	
1458	107.94	16.29	6.95	0.733	4.43	279	0.0	200	
1503	107.94	15.99	6.97	0.734	4.08	280	0.0	200	
1508	107.94	15.85	6.95	0.737	4.22	275	0.0	200	
1510	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-15-12

Well ID: MW-18D

Initial Static Water Level (feet btoc): 108.15

Final Water Level (feet btoc): 108.08

Purge Start Time: 13:35

Sample Time: 14:25

Samplers= Signatures: B. Lewis

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: MS/MSD

Sample Number: 5680-21

Controller Settings: Recharge: 10 **secs Discharge:** 20 **secs Pressure:** 95 **psi**

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1355	107.94	15.88	6.87	0.500	4.78	268	0.0	150	
1400	107.94	15.03	6.93	0.544	4.16	262	0.0	150	
1405	107.94	14.75	7.01	0.560	3.49	260	0.0	150	
1410	107.94	14.44	7.05	0.564	3.39	251	0.0	150	
1415	107.94	14.37	7.16	0.560	3.26	255	0.0	150	
1420	107.94	14.34	7.16	0.564	3.16	255	0.0	150	
1425	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3-16-12

Well ID: MW-41D1

Initial Static Water Level (feet btoc): 118.79

Final Water Level (feet btoc): 118.77

Purge Start Time: 12:30

Sample Time: 13:45

Samplers= Signatures:

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-31

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 85 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1240	118.80	20.95	7.23	0.805	7.38	248	0.0	200	
1245	118.80	19.52	7.13	0.729	7.05	271	61.4	200	
1250	118.80	18.24	7.03	0.730	6.41	290	92.0	200	
1255	118.80	18.02	6.91	0.732	6.40	292	87.8	200	
1300	118.80	18.01	6.92	0.732	6.40	294	80.1	200	
1305	118.80	18.04	6.90	0.733	6.16	298	57.1	200	
1310	118.80	17.99	6.97	0.733	5.82	297	41.0	200	
1315	118.80	18.42	6.91	0.731	6.00	293	29.9	200	
1320	118.80	18.48	6.91	0.730	5.90	292	18.2	200	
1325	118.80	18.97	6.96	0.731	5.71	288	6.9	200	
1330	118.80	19.33	6.97	0.731	5.66	286	6.5	200	
1335	118.80	19.58	6.92	0.729	5.65	283	0.3	200	
1340	118.80	19.43	6.96	0.728	5.59	282	0.0	200	
1345	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-16-12

Well ID: MW-41DZ

Initial Static Water Level (feet btoc): 118.53

Final Water Level (feet btoc): 118.52

Purge Start Time: 14:05

Sample Time: 15:00

Samplers= Signatures: B. Wyte

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: MS/MSD

Sample Number: 5680-32

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 110 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1415	118.80	23.11	6.97	0.489	5.47	272	195	200	
1420	118.80	18.93	7.20	0.390	4.88	267	140	200	
1425	118.80	17.92	7.15	0.382	4.21	269	81.3	200	
1430	118.80	18.01	7.10	0.382	4.20	267	75.7	200	
1435	118.80	17.93	7.11	0.380	3.93	269	65.1	200	
1440	118.80	17.75	7.10	0.379	3.75	269	61.0	200	
1445	118.80	17.57	7.17	0.378	3.41	275	55.3	200	
1450	118.80	17.65	7.19	0.376	3.38	272	53.3	200	
1455	118.80	17.76	7.18	0.375	3.27	270	51.0	200	
1500	COLLECT	SAMPLE							

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3-12-12

Well ID: MW-42D

Initial Static Water Level (feet btoc): 120.50

Final Water Level (feet btoc): 120.50

Purge Start Time: 17:40

Sample Time: 18:35

Samplers= Signatures:

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: DUPLICATE : 5680-2-FD

Sample Number: 5680-2

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 80 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1750	120.50	16.91	8.49	0.499	8.34	206	74.3	100	
1755	120.50	16.23	8.43	0.516	8.31	206	72.5	100	
1800	120.50	16.05	7.37	0.524	6.16	260	79.1	100	
1805	120.50	15.94	7.22	0.528	6.01	268	79.6	100	
1810	120.50	15.85	7.13	0.528	5.55	274	81.1	100	
1815	120.50	15.51	7.06	0.528	5.51	279	79.0	100	
1820	120.50	15.10	7.02	0.528	5.64	282	76.0	100	
1825	120.50	14.83	7.01	0.527	5.80	286	73.1	100	
1830	120.50	14.72	7.00	0.527	5.77	287	72.0	100	
1835	COLLECT	SAMPLE							

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-12-12

Well ID: MW-42E

Initial Static Water Level (feet btoc): 120.58

Final Water Level (feet btoc): 120.59

Purge Start Time: 16:30

Sample Time: 17:35

Samplers= Signatures: BW

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-1

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 100 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1655	120.59	18.97	9.03	0.453	8.36	125	75.4	100	
1700	120.59	17.49	8.54	0.432	7.61	164	52.8	100	
1705	120.59	16.22	7.91	0.430	7.41	204	72.0	100	
1710	120.59	15.92	7.49	0.428	7.61	225	79.1	100	
1715	120.59	15.69	7.25	0.429	7.51	241	72.6	100	
1720	120.59	16.12	7.21	0.430	7.42	245	68.1	100	
1725	120.59	15.18	7.14	0.431	7.25	248	66.7	100	
1730	120.59	15.25	7.13	0.431	6.82	252	62.8	100	
1735	COLLECT	SAMPLE							

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3-14-12

Well ID: MW-43D

Initial Static Water Level (feet btoc): 124.87

Final Water Level (feet btoc): 124.87

Purge Start Time: 1620

Sample Time: 16:50

Samplers= Signatures: BLW

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-16

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 105 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1623	124.88	20.39	7.83	0.518	2.95	302	5.0	150	
1628	124.88	19.70	7.15	0.553	4.41	327	4.4	150	
1633	124.88	19.74	6.98	0.571	4.51	324	0.0	150	
1638	124.88	20.17	6.99	0.581	4.54	328	0.0	150	
1643	124.88	19.75	6.99	0.587	4.46	326	0.0	150	
1648	124.88	20.23	6.89	0.591	4.61	323	0.0	150	
1650	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-14-12

Well ID: MW-43E

Initial Static Water Level (feet btoc): 124.83

Final Water Level (feet btoc): 124.80

Purge Start Time: 1455

Sample Time: 16:10

Samplers= Signatures: BLW/to

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-15

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 110 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1509	124.80	26.32	7.19	0.525	4.46	313	0.0	100	
1514	124.80	23.54	7.12	0.463	4.31	320	0.0	100	
1519	124.80	23.01	7.13	0.440	3.90	323	5.0	100	
1524	124.80	22.55	7.18	0.432	3.53	326	0.0	100	
1529	124.80	23.17	7.19	0.428	3.55	326	5.3	100	
1534	124.80	24.50	7.21	0.417	3.11	326	16.8	100	
1539	124.80	21.12	7.16	0.450	3.57	319	24.3	100	
1544	124.80	21.00	7.18	0.449	3.40	319	22.6	100	
1549	124.80	20.81	7.21	0.446	3.20	320	8.2	100	
1554	124.80	21.10	7.20	0.445	3.02	318	4.1	100	
1559	124.80	21.22	7.18	0.444	2.93	316	0.0	100	
1604	124.80	21.61	7.19	0.444	2.84	318	0.0	100	
1609	124.80	21.60	7.20	0.445	2.83	315	0.0	100	
1610	COLLECT	SAMPLE							

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-15-12

Well ID: MW-44D

Initial Static Water Level (feet btoc): 109.20

Final Water Level (feet btoc): 109.08

Purge Start Time: 16:00

Sample Time: 17:15

Samplers= Signatures: BLW, JS

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-23

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 110 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1612	109.00	17.88	7.17	0.655	5.79	273	263	225	
1617	109.00	14.77	7.25	0.488	4.39	285	160	225	
1622	109.00	14.70	7.20	0.462	3.77	287	107	225	
1627	109.00	14.35	7.26	0.452	3.29	281	73.2	225	
1632	109.00	14.20	7.26	0.451	2.96	284	58.7	225	
1637	109.00	14.10	7.23	0.450	2.67	280	46.0	225	
1642	109.00	14.12	7.27	0.448	2.44	273	31.4	225	
1647	109.00	13.92	7.27	0.448	2.26	276	28.0	225	
1652	109.00	14.05	7.26	0.448	2.05	267	19.1	225	
1657	109.00	13.92	7.28	0.448	1.91	271	11.2	225	
1702	109.00	13.65	7.10	0.450	1.82	262	3.4	225	
1707	109.00	13.48	7.20	0.449	1.83	267	2.6	225	
1712	109.00	13.40	7.17	0.450	1.79	262	2.8	225	
1715	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-15-12

Well ID: MW-44E

Initial Static Water Level (feet btoc): 109.25

Final Water Level (feet btoc): 109.26

Purge Start Time: 17:25

Sample Time: 18:05

Samplers= Signatures: BLW/to

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-26

Controller Settings: Recharge: 10 secs **Discharge:** 20 secs **Pressure:** 110 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1730	109.25	15.79	7.26	0.426	1.79	261	4.8	220	
1735	109.25	15.69	7.29	0.390	2.98	267	0.0	220	
1740	109.25	15.11	7.40	0.380	2.89	278	3.8	220	
1745	109.25	14.78	7.32	0.376	2.71	272	5.7	220	
1750	109.25	14.58	7.40	0.373	2.57	273	5.6	220	
1755	109.25	14.08	7.40	0.372	2.52	274	3.7	220	
1800	109.25	13.98	7.32	0.370	2.53	271	0.0	220	
1805	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-17-12

Well ID: MW-45C

Initial Static Water Level (feet btoc): 101.93

Final Water Level (feet btoc): 101.95

Purge Start Time: 16:10

Sample Time: 17:15

Samplers= Signatures: BLW

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: DUPLICATE : 5680-28-FD

Sample Number: 5680-28

Controller Settings: Recharge: 10 secs **Discharge:** 20 secs **Pressure:** 78 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1617	101.93	22.20	7.57	0.626	7.82	315	101	200	
1622	101.93	19.86	7.50	0.680	6.30	331	117	200	
1627	101.93	19.26	7.49	0.674	6.08	338	88.0	200	
1632	101.93	18.77	7.45	0.679	6.05	339	71.2	200	
1637	101.93	18.59	7.40	0.680	5.84	338	56.4	200	
1642	101.93	18.65	7.40	0.681	5.83	337	46.1	200	
1647	101.93	18.68	7.41	0.682	5.78	336	41.6	200	
1652	101.93	18.36	7.45	0.681	5.77	330	30.2	200	
1657	101.93	18.13	7.44	0.687	5.78	322	25.7	200	
1702	101.93	18.54	7.46	0.684	6.27	316	12.4	200	
1707	101.93	18.39	7.40	0.680	6.38	314	13.1	200	
1712	101.93	18.89	7.45	0.673	6.45	308	11.9	200	
1715	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-18-12

Well ID: MW-45D

Initial Static Water Level (feet btoc): 101.53

Final Water Level (feet btoc): 101.55

Purge Start Time: 08:15

Sample Time:

Samplers= Signatures: BLW, JS

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-39

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 90 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
0820	101.53	14.96	7.06	0.593	9.03	177	7.3	200	
0825	101.53	14.15	7.17	0.617	8.85	236	0.0	200	
0830	101.53	13.97	7.22	0.614	8.43	255	0.0	200	
0835	101.53	14.04	7.20	0.615	8.05	265	0.0	200	
0840	101.53	14.13	7.39	0.611	8.27	268	0.0	200	
0845	101.53	14.10	7.40	0.610	8.12	273	0.0	200	
0850	101.53	13.92	7.39	0.610	8.15	277	0.0	200	
0855	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-16-12

Well ID: MW-46D1

Initial Static Water Level (feet btoc): 113.49

Final Water Level (feet btoc): 113.49

Purge Start Time: 17:05

Sample Time: 17:50

Samplers= Signatures: B. Wyte

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-34

Controller Settings: Recharge: 10 secs **Discharge:** 20 secs **Pressure:** 90 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1705	113.47	20.38	7.25	0.606	5.76	262	573	200	
1710	113.47	20.24	6.96	0.628	5.12	267	432	200	
1715	113.47	19.90	6.93	0.632	5.11	266	520	200	
1720	113.47	19.86	6.99	0.631	5.01	265	530	200	
1725	113.47	19.70	6.93	0.629	5.33	265	541	200	
1730	113.47	19.25	6.94	0.625	4.93	265	0.0 *	200	TURBIDITY NOT WORKING
1735	113.47	19.26	6.96	0.626	5.01	267	0.0	200	
1740	113.47	19.03	6.92	0.626	5.11	267	0.0	200	
1745	113.47	18.83	6.93	0.625	5.06	267	0.0	200	
1750	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-16-12

OVM: FID G PID G **In Casing (ppm): (Initial)** Not Applicable **(Vented to)** atmosphere

Well ID: MW-46D2

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Initial Static Water Level (feet btoc): 113.65

Analytical Parameters: LDL VOCs

Final Water Level (feet btoc): 113.67

QC Samples Collected: NA

Purge Start Time: 1550

Sample Number: 5680-33

Sample Time: 16:55

Controller Settings: Recharge: 10 **secs Discharge:** 20 **secs Pressure:** 105 **psi**

Samplers= Signatures: B. Kuntz

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1605	113.69	23.05	7.51	0.472	5.86	265	45.1	200	
1610	113.69	21.60	7.26	0.585	5.19	279	46.0	200	
1615	113.69	20.41	7.19	0.610	4.90	284	41.9	200	
1620	113.69	19.84	7.06	0.615	4.88	287	36.4	200	
1625	113.69	19.76	7.04	0.613	4.86	288	31.1	200	
1630	113.69	19.48	7.04	0.614	4.77	287	28.7	200	
1635	113.69	19.20	7.03	0.618	4.70	284	16.1	200	
1640	113.69	19.24	7.14	0.615	4.60	287	12.0	200	
1645	113.69	19.03	7.16	0.616	4.52	278	13.1	200	
1650	113.69	19.14	7.13	0.614	4.54	272	11.8	200	
1655	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-13-12

Well ID: MW-104A

Initial Static Water Level (feet btoc): 104.09

Final Water Level (feet btoc): 104.08

Purge Start Time: 1545

Sample Time: 16:20

Samplers= Signatures: BLW

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-9

Controller Settings: Recharge: 8 secs Discharge: 12 secs Pressure: 65 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1552	104.13	22.61	7.01	0.424	5.55	286	0.0	210	
1557	104.13	20.07	7.13	0.722	5.59	290	0.0	210	
1602	104.13	19.69	7.14	0.775	5.44	298	0.0	210	
1607	104.13	19.19	7.17	0.800	5.25	304	0.0	210	
1612	104.13	19.11	7.15	0.812	5.32	307	0.0	210	
1617	104.13	18.90	7.16	0.825	5.10	308	0.0	210	
1620	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3-13-12

Well ID: MW-104C

Initial Static Water Level (feet btoc): 106.08

Final Water Level (feet btoc): 106.08

Purge Start Time: 14:15

Sample Time: 15:40

Samplers= Signatures: B. Wyte

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-8

Controller Settings: Recharge: 5 secs Discharge: 15 secs Pressure: 90 psi

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1510	106.08	22.98	7.13	0.402	6.70	308	0.0	150	
1515	106.08	21.67	7.09	0.406	4.60	310	0.0	150	
1520	106.08	21.13	7.04	0.410	3.83	298	0.0	150	
1525	106.08	20.93	7.04	0.411	3.40	291	0.0	150	
1530	106.08	21.20	7.03	0.411	3.38	289	0.0	150	
1535	106.08	21.30	7.03	0.410	3.29	286	0.0	150	
1540	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3-13-12

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Well ID: MW-104D

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Initial Static Water Level (feet btoc): 106.03

Analytical Parameters: LDL VOCs

Final Water Level (feet btoc): 106.03

QC Samples Collected: NA

Purge Start Time: 13:25

Sample Number: SG80-7

Sample Time: 14:05

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 95 psi

Samplers= Signatures:

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1334	106.03	21.64	7.40	0.501	6.19	263	0.0	130	
1339	106.03	21.05	7.54	0.439	6.78	258	0.0	130	
1344	106.03	20.01	7.47	0.344	3.61	288	0.0	130	
1349	106.03	19.73	7.31	0.334	2.86	297	0.0	130	
1354	106.03	19.47	7.26	0.332	2.36	300	0.0	130	
1359	106.03	19.53	7.23	0.330	2.36	298	0.0	130	
1404	106.03	19.44	7.23	0.331	2.24	297	0.0	130	
1405	COLLECT	SAMPLE							

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-16-12

Well ID: MW-105A

Initial Static Water Level (feet btoc): 118.87

Final Water Level (feet btoc): 118.86

Purge Start Time: 10:25

Sample Time: 11:10

Samplers= Signatures: B. Walton

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable **(Vented to)** atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-30

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 67 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1030	118.90	15.49	6.95	0.883	6.51	286	0.0	200	
1035	118.90	14.36	7.08	0.938	6.57	290	0.0	200	
1040	118.90	14.30	7.02	0.945	6.83	288	0.0	200	
1045	118.90	14.43	7.04	0.949	6.57	289	0.0	200	
1050	118.90	14.38	7.06	0.951	6.50	292	0.0	200	
1055	118.90	14.46	7.06	0.951	6.41	293	0.0	200	
1100	118.90	14.76	7.00	0.952	6.55	291	0.0	200	
1105	118.90	14.75	7.06	0.950	6.43	294	0.0	200	
1110	COLLECT	SAMPLE							

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3-16-12

Well ID: MW-105C

Initial Static Water Level (feet btoc): 120.20

Final Water Level (feet btoc): 120.20

Purge Start Time: 09:30

Sample Time: 10:15

Samplers= Signatures:

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-27

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 95 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
0935	120.20	13.49	7.62	0.636	10.03	224	0.0	200	
0940	120.20	13.71	7.11	0.703	6.70	264	0.0	200	
0945	120.20	13.95	6.96	0.710	6.33	270	0.0	200	
0950	120.20	14.11	6.96	0.710	6.02	278	0.0	200	
0955	120.20	14.20	6.96	0.711	5.86	281	0.0	200	
1000	120.20	14.42	6.91	0.712	5.95	281	0.0	200	
1005	120.20	14.62	6.89	0.714	5.92	285	0.0	200	
1010	120.20	14.71	6.90	0.713	5.82	287	0.0	200	
1015	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-16-12

Well ID: MW-105D

Initial Static Water Level (feet btoc): 120.02

Final Water Level (feet btoc): 120.02

Purge Start Time: 0835

Sample Time: 09:20

Samplers= Signatures: BLW, JS

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: DUPLICATE : SG80-17-FD

Sample Number: SG80-17

Controller Settings: Recharge: 10 **secs Discharge:** 20 **secs Pressure:** 105 **psi**

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
0840	120.02	12.73	7.26	0.506	9.08	109	0.0	200	
0845	120.02	12.55	7.75	0.488	9.01	151	0.0	200	
0850	120.02	12.56	7.41	0.482	5.91	195	0.0	200	
0855	120.02	12.60	7.16	0.481	4.69	219	0.0	200	
0900	120.02	12.64	7.11	0.481	4.32	233	0.0	200	
0905	120.02	12.86	7.03	0.480	4.20	240	0.0	200	
0910	120.02	12.99	7.05	0.480	4.25	244	0.0	200	
0915	120.02	13.16	7.09	0.480	4.20	251	0.0	200	
0920	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site Date: 3-13-17

Well ID: MW-106A

Initial Static Water Level (feet btoc): 120.34

Final Water Level (feet btoc): 120.34

Purge Start Time: 1053

Sample Time: 1150

Samplers= Signatures: B. Wa

OVM: FID G PID G In Casing (ppm): (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-6

Controller Settings: Recharge: 15 secs Discharge: 15 secs Pressure: 62 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1118	120.34	19.00	7.40	0.502	7.95	250	0.0	120	
1123	120.34	18.70	7.28	0.769	7.48	302	0.0	120	
1128	120.34	17.81	6.96	0.849	6.99	304	0.0	120	
1133	120.34	17.45	6.94	0.863	6.93	300	0.0	120	
1138	120.34	17.32	6.95	0.870	6.75	298	0.0	120	
1143	120.34	17.54	6.91	0.869	6.65	297	0.0	120	
1148	120.34	17.72	6.91	0.867	6.71	292	0.0	120	
1150	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-13-12

Well ID: MW-106C

Initial Static Water Level (feet btoc): 122.35

Final Water Level (feet btoc): 122.35

Purge Start Time: 0955

Sample Time: 1045

Samplers= Signatures: BLW

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: NA

Sample Number: 5680-5

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 84 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1005	122.35	12.48	7.13	0.416	4.21	258	0.0	120	
1010	122.35	12.52	8.00	0.543	6.62	232	0.0	120	
1015	122.35	12.72	7.49	0.567	6.24	294	0.0	120	
1020	122.35	12.93	7.02	0.582	5.35	305	0.0	120	
1025	122.35	13.17	6.81	0.589	4.93	307	0.0	120	
1030	122.35	13.42	6.76	0.587	4.57	309	0.0	120	
1035	122.35	13.92	6.72	0.588	4.33	308	0.0	120	
1040	122.35	14.02	6.72	0.589	4.30	308	0.0	120	
1045	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

LOW-FLOW GROUNDWATER SAMPLING LOG

Site Name: Garvey Elevator Site **Date:** 3-13-12

Well ID: MW-106D

Initial Static Water Level (feet btoc): 122.41

Final Water Level (feet btoc): 122.41

Purge Start Time: 0855

Sample Time: 0945

Samplers= Signatures: B. Mc

OVM: FID G PID G **In Casing (ppm):** (Initial) Not Applicable (Vented to) atmosphere

Purging/Sampling Device: QED Bladder Pump/compressed nitrogen

Analytical Parameters: LDL VOCs

QC Samples Collected: MS/MSD

Sample Number: 5680-4

Controller Settings: Recharge: 10 secs Discharge: 20 secs Pressure: 95 psi

Cycles Per Minute: 2

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
0910	122.41	17.14	5.11	0.001	6.72	228	182	180	
0915	122.41	17.14	5.11	0.001	6.72	228	182	180	HORIBA FROZEN - RESET
0920	122.41	10.93	7.23	0.425	3.56	259	0.0	180	
0925	122.41	11.27	7.10	0.417	3.05	271	0.0	180	
0930	122.41	11.34	7.06	0.416	2.91	277	0.0	180	
0935	122.41	11.52	7.05	0.415	2.91	282	0.0	180	
0940	122.41	11.61	7.02	0.414	3.02	282	0.0	180	
0945	COLLECT SAMPLE								

Tubing Volume Calculations:
0.17-inch Tubing = 18 mL per foot of water in tubing

HGL CDM

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO / Turbidity	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 3 %	Water Level	± 0.3 feet

US EPA ARCHIVE DOCUMENT

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US EPA ARCHIVE DOCUMENT

EPA FIELD SHEETS

US EPA ARCHIVE DOCUMENT

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CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
Brian Zurbuchen	Garvey Elevator - RI/FS Sampling	12-13 / 3 / 12	1 of 1

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	BOTTLE	BOTTLE	BOTTLE	4/VOA SET (2 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
5678-61-FB					1	X					Trip Blank
5678-1					3	X					Extra Vol. MS/MSD
5678-2					1	X					
5678-2-FD					1	X					Field Duplicate
5678-4					1	X					
5678-5					1	X					
5678-5-FD					1	X					Field Dupliate
5678-7					1	X					
5678-8					1	X					
5678-9					1	X					
5678-11					1	X					
5678-10					1	X					
5678-12					1	X					
5678-13					1	X					
5678-14					1	X					
5678-15					1	X					
5678-16					1	X					

ASR NOT COMPLETE
3/14/12

DESCRIPTION OF SHIPMENT

1 PIECE(S) CONSISTING OF _____ BOX(ES)

1 ICE CHEST(S); OTHER _____

MODE OF SHIPMENT

X COMMERCIAL CARRIER: FedEx

___ COURIER

___ SAMPLER CONVEYED

8753 6175 1835 (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
[signature] ☒ SEALED ☐ UNSEALED	3/14/12	15:30	☐ SEALED ☐ UNSEALED	Shipping
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY

7-EPA-9262(Revised 5/85)

*U.S. GPO: 2002-756-917/40053

US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
Brian Zurbuchen	Garvey Elevator - RI/FS Sampling	14-15 / 3 / 12	1 of 1

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (# VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
5678-62-FB					1	X					Trip Blank
5678-17					1	X					
5678-18					1	X					
5678-19					3	X					Extra Volume for MS/MSD
5678-20					1	X					

ASR NOT COMPLETE
Kyle M 3/15/12

DESCRIPTION OF SHIPMENT	MODE OF SHIPMENT
1 PIECE(S) CONSISTING OF _____ BOX(ES)	X COMMERCIAL CARRIER: Fed Ex
1 ICE CHEST(S): OTHER _____	___ COURIER
	___ SAMPLER CONVEYED
	8753 6175 1824 (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
Kyle M — X SEALED ☐ UNSEALED	3/15/12	15:00	☐ SEALED ☐ UNSEALED	Shipping
RELINQUISHED BY — ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY — ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY — ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY — ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY

*U.S. GPO: 2002-756-917/40053

US EPA ARCHIVE DOCUMENT

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
Brian Zurbuchen	Garvey Elevator -RI/FS Sampling	15-18 / 3 / 12	1 of 2

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	BOTTLE	BOTTLE	BOTTLE	4/VOA SET (2 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
5678-63-FB					1	X					Trip Blank
5678-21					1	X					
5678-22					1	X					
5678-22-FD					1	X					Field Dupliate
5678-24					1	X					
5678-25					1	X					
5678-26					1	X					
5678-27					1	X					
5678-31					1	X					Equipment Blank
5678-28					3	X					Extra Volume for MS/MSD
5678-29					1	X					
5678-29-FD					1	X					Field Duplicate
5678-32					1	X					
5678-33					1	X					
5678-34					1	X					
5678-35					1	X					
5678-36					1	X					
5678-37					1	X					
5678-38					1	X					
5678-38-FD					1	X					Field Dupliate
5678-40					1	X					
5678-40-FD					1	X					Field Duplicate
5678-42					1	X					
5678-43					1	X					

ASR NOT COMPLETE

DESCRIPTION OF SHIPMENT

3 PIECE(S) CONSISTING OF _____ BOX(ES)

3 ICE CHEST(S); OTHER _____

MODE OF SHIPMENT

_____ COMMERCIAL CARRIER: _____

_____ COURIER

X SAMPLER CONVEYED

_____ (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	

7-EPA-9262(Revised 5/85)

*U.S. GPO: 2002-756-917/40053

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
Brian Zurbuchen	Garvey Elevator - RI/FS Sampling	15-18 / 3 / 12	2 of 2

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	BOTTLE	BOTTLE	BOTTLE	4 VOA SET (2 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
5678-46					1	X					
5678-47					1	X					
5678-44					1	X					
5678-45					1	X					
5678-52					1	X					
5678-53					1	X					
5678-54					1	X					
5678-48					1	X					
5678-49					1	X					
5678-50					1	X					

ASR INCOMPLETE
KWM
3/18/2013

DESCRIPTION OF SHIPMENT

3 PIECE(S) CONSISTING OF _____ BOX(ES)

3 ICE CHEST(S): OTHER _____

MODE OF SHIPMENT

_____ COMMERCIAL CARRIER: _____

_____ COURIER

X SAMPLER CONVEYED

_____ (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	

*U.S. GPO: 2002-756-917/40053

US EPA ARCHIVE DOCUMENT

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
BRIAN ZURBUCHEN	GARNEY ELEVATOR	13 / 3 / 12	1 of 1

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (2 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
5680-22					1	X					
5680-23					1	X					
5680-26					1	X					
5680-17					1	X					
5680-17-FD					1	X					Field Duplicate
5680-27					1	X					
5680-30					1	X					
5680-31					1	X					
5680-32					3	X					EXTRA VOLUME FOR MS/MSD
5680-33					1	X					
5680-34					1	X					
5680-35					1	X					
5680-36					1	X					
5680-37					1	X					
5680-38					1	X					
5680-24					1	X					
5680-24-FD					1	X					Field Duplicate
5680-28					1	X					
5680-28-FD					1	X					Field Duplicate
5680-47-FB					1	X					Trip Blank
5680-39					1	X					
5680-40					1	X					Equipment Blank
5680-41					1	X					
5680-42					1	X					

ASK COMPLETE

DESCRIPTION OF SHIPMENT

3 PIECE(S) CONSISTING OF _____ BOX(ES)

3 ICE CHEST(S): OTHER _____

MODE OF SHIPMENT

_____ COMMERCIAL CARRIER _____

_____ COURIER

X SAMPLER CONVEYED

_____ (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
[signature] ☐ SEALED ☒ UNSEALED	3/19/12	1353	RD Wiggans ☐ SEALED ☐ UNSEALED	Rec'd at Lab
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY

*U.S. GPO: 2002-756-917/40053

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
Brian Zurbuchen	Garvey Elevator	19 / 3 / 12	1 of 1

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	BOTTLE	BOTTLE	BOTTLE	4 VOA SET (2 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
5678-64-FB					1	X					Trip Blank
5678-55					1	X					
5678-57					1	X					
5678-56					1	X					

ASR COMPLETE
Kyle Mrs
3/19/2012

DESCRIPTION OF SHIPMENT

1 PIECE(S) CONSISTING OF _____ BOX(ES)

1 ICE CHEST(S); OTHER _____

MODE OF SHIPMENT

X COMMERCIAL CARRIER: Fed Ex

___ COURIER

___ SAMPLER CONVEYED

8987 2349 5583 (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
Kyle [signature] ☒ SEALED ☐ UNSEALED	3/19/12	13:00	☐ SEALED ☐ UNSEALED	Shipping
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY

*U.S. GPO: 2002-756-917/40053

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 1 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-1-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-06A

External Sample Number: MW-06A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/12/12 18:15

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	829	umhos/cm
Dissolved Oxygen :	5.54	mg/L
Temperature :	18.77	Deg C
Turbidity :	4.7	NTU
pH :	6.94	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) Extra volume for MS/MSD

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 2 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-2-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-06D

External Sample Number: MW-06D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/12/12 19:00
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	609	umhos/cm
Dissolved Oxygen :	5.15	mg/L
Temperature :	14.37	Deg C
Turbidity :	1.1	NTU
pH :	6.62	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 2 **QC Code:** FD **Matrix:** Water **Tag ID:** 5678-2-FD

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-06D

External Sample Number: MW-06D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/12/12 19:00

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	6009	umhos/cm
Dissolved Oxygen :	5.15	mg/L
Temperature :	1437	Deg C
Turbidity :	1.1	NTU
pH :	6.62	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Field Duplicate of 5678-2

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 4 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-4-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-06E

External Sample Number: MW-06E

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/13/12 9:00

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	380	umhos/cm
Dissolved Oxygen :	2.86	mg/L
Temperature :	11.00	Deg C
Turbidity :	0.0	NTU
pH :	6.42	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KS

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 5 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-5-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-08A

External Sample Number: MW-08A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/13/12 11:55
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	1240	umhos/cm
Dissolved Oxygen :	5.50	mg/L
Temperature :	19.14	Deg C
Turbidity :	16.2	NTU
pH :	7.11	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 5 **QC Code:** FD **Matrix:** Water **Tag ID:** 5678-5-FD

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-08A

External Sample Number: MW-08A

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/13/12	~~10:15~~ 1155 KM 3/13/12
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	1240	umhos/cm
Dissolved Oxygen :	5.50	mg/L
Temperature :	19.14	Deg C
Turbidity :	16.2	NTU
pH :	7.11	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) Field Duplicate of 5678-5

Sample Collected By: SH/KS

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 7 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-7-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-02A

External Sample Number: MW-02A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/13/12 15:35
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	.784	umhos/cm
Dissolved Oxygen :	5.20	mg/L
Temperature :	19.00	Deg C
Turbidity :	0.0	NTU
pH :	6.69	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 8 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-8-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-03D

External Sample Number: MW-03D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/13/12 16:45
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	567	umhos/cm
Dissolved Oxygen :	5.94	mg/L
Temperature :	18.30	Deg C
Turbidity :	92.0	NTU
pH :	6.74	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 9 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-9-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-03B

External Sample Number: MW-03B

Expected Conc: (or Circle One: Low (Medium) High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/13/12 17:20

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	.937	umhos/cm
Dissolved Oxygen :	7.14	mg/L
Temperature :	16.89	Deg C
Turbidity :	0.0	NTU
pH :	6.49	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 10 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-10-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: ~~MW-01E~~ KJ 3/14/12 MW-03E

External Sample Number: ~~MW-01E~~ KJ 3/14/12 MW-03E

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/13/12 KJ 3/14/12 14 9:40
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	.635	umhos/cm
Dissolved Oxygen :	2.20	mg/L
Temperature :	13.39	Deg C
Turbidity :	0.0	NTU
pH :	7.89	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 11 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-11-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-03A

External Sample Number: MW-03A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/14/12 8:50

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	1.09	umhos/cm
Dissolved Oxygen :	8.00	mg/L
Temperature :	10.68	Deg C
Turbidity :	0.0	NTU
pH :	6.91	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 12 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-12-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: Rolls old well

External Sample Number: Rolls old well

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	3/14/12	10:15
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	1070	umhos/cm
Dissolved Oxygen :	7.07	mg/L
Temperature :	14.20	Deg C
Turbidity :	0.0	NTU
pH :	7.40	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: JH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 13 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-13-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: Rolls New Well

External Sample Number: Rolls New well

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/14/12 10:20

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	513	umhos/cm
Dissolved Oxygen :	11.00	mg/L
Temperature :	12.56	Deg C
Turbidity :	0.0	NTU
pH :	7.55	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 14 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-14-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: ~~MW-31C~~ KJ 3/14/12 MW-30E

External Sample Number: ~~MW-31C~~ KJ 3/14/12 MW-30E

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/14/12 13:40
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	731	umhos/cm
Dissolved Oxygen :	8.55	mg/L
Temperature :	20.29	Deg C
Turbidity :	0.0	NTU
pH :	7.75	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Tiny bubbles observed in vials, does not appear to be reaction with HCL preservative believed to be Hydrogen sulphide gas coming out of solution

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 15 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-15-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-30A

External Sample Number: MW-30A

Expected Conc: (or Circle One: Low (Medium) High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/14/12 14:15

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Temp: 20.68 °C
pH: 6.90 SU
SC: 777 µs/cm
DO: 8.24 mg/L
ORP: -147 mV
Turb: 0.0 NTU

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 16 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-16-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-30C

External Sample Number: MW-30C

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/14/12 15:15
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	760	umhos/cm
Dissolved Oxygen :	8.86	mg/L
Temperature :	21.41	Deg C
Turbidity :	0.0	NTU
pH :	7.65	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 17 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-17-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-30D

External Sample Number: MW-30D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/14/12 17:35
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	771	umhos/cm
Dissolved Oxygen :	0.47	mg/L
Temperature :	21.08	Deg C
Turbidity :	11.9	NTU
pH :	7.09	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) Possible Hydrogen Sulphide in solution, may be air bubbles in sample upon receipt.

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 18 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-18-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-31A

External Sample Number: MW-31A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/14/12 18:20
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	884	umhos/cm
Dissolved Oxygen :	0.00	mg/L
Temperature :	21.00	Deg C
Turbidity :	4.9	NTU
pH :	6.80	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 19 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-19-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-31C

External Sample Number: MW-31C

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/15/12 12:00
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	454	umhos/cm
Dissolved Oxygen :	6.42	mg/L
Temperature :	15.62	Deg C
Turbidity :	0.0	NTU
pH :	6.26	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) Extra Volume for MS/MSD

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 20 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-20-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: ~~MW-20A~~ (3/15/12) MW-20E

External Sample Number: ~~MW-20A~~ (3/15/12) MW-20E

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/15/12	14:30
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	422	umhos/cm
Dissolved Oxygen :	1.79	mg/L
Temperature :	17.17	Deg C
Turbidity :	0.0	NTU
pH :	7.60	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 21 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-21-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-20D

External Sample Number: MW-20D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/15/12 16:55
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	512	umhos/cm
Dissolved Oxygen :	0.00	mg/L
Temperature :	18.37	Deg C
Turbidity :	0.0	NTU
pH :	5.88	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) Hydrogen Sulphide odor noted during sampling

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 22 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-22-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-20C

External Sample Number: MW-20C

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/15/12	18:06
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	581	umhos/cm
Dissolved Oxygen :	3.90	mg/L
Temperature :	18.21	Deg C
Turbidity :	0.0	NTU
pH :	7.09	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 22 **QC Code:** FD **Matrix:** Water **Tag ID:** 5678-22-FD

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-20C

External Sample Number: MW-20C

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/15/12	18:06
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	581	umhos/cm
Dissolved Oxygen :	3.90	mg/L
Temperature :	18.21	Deg C
Turbidity :	0.0	NTU
pH :	7.09	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Field Duplicate of 5678-22

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 24 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-24-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-19A

External Sample Number: MW1-19A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/16/12 10:10
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	1,180	umhos/cm
Dissolved Oxygen :	4.44	mg/L
Temperature :	14.79	Deg C
Turbidity :	0.0	NTU
pH :	7.16	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 25 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-25-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-19C

External Sample Number: MW-19C

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/16/12	11:10
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	.861	umhos/cm
Dissolved Oxygen :	5.61	mg/L
Temperature :	16.46	Deg C
Turbidity :	0.0	NTU
pH :	6.78	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 26 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-26-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-20A

External Sample Number: MW-20A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/16/12 13:40
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	887	umhos/cm
Dissolved Oxygen :	0.57	mg/L
Temperature :	25.56	Deg C
Turbidity :	0.0	NTU
pH :	7.30	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 27 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-27-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-9A

External Sample Number: MW-9A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/16/12 15:15
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	739	umhos/cm
Dissolved Oxygen :	4.22	mg/L
Temperature :	25.44	Deg C
Turbidity :	0.0	NTU
pH :	7.44	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 28 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-28-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-7B

External Sample Number: MW-7B

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___	**Sample Collection: Start:**	3/16/12	1620
Longitude: ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	868	umhos/cm
Dissolved Oxygen :	6.01	mg/L
Temperature :	25.76	Deg C
Turbidity :	0.0	NTU
pH :	7.35	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) Extra Volume for MS/MSD

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 29 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-29-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-7A

External Sample Number: MW-7A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/16/12 16:50
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	846	umhos/cm
Dissolved Oxygen :	5.48	mg/L
Temperature :	24.46	Deg C
Turbidity :	0.0	NTU
pH :	7.10	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 29 **QC Code:** FD **Matrix:** Water **Tag ID:** 5678-29-FD

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-7A

External Sample Number: MW-7A

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/16/12	1650
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	846	umhos/cm
Dissolved Oxygen :	5.48	mg/L
Temperature :	24.46	Deg C
Turbidity :	0.0	NTU
pH :	7.10	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) Field Duplicate of 5678-29

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 31 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-31-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: OU1 Equipment Blank

External Sample Number: OU1 Equipment Blank

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	3/16/12	16:00
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	NA	umhos/cm
Dissolved Oxygen :	NA	mg/L
Temperature :	NA	Deg C
Turbidity :	NA	NTU
pH :	NA	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:
(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 32 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-32-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-1A

External Sample Number: MW-1A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/16/12 18:05
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	638	umhos/cm
Dissolved Oxygen :	5.62	mg/L
Temperature :	23.60	Deg C
Turbidity :	0.0	NTU
pH :	6.90	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 33 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-33-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-5R

External Sample Number: MW-5R

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/17/12 9:15
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	1016	umhos/cm
Dissolved Oxygen :	7.77	mg/L
Temperature :	14.07	Deg C
Turbidity :	0.0	NTU
pH :	6.88	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 34 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-34-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-5A

External Sample Number: MW-5A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/17/12 9:50
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	.921	umhos/cm
Dissolved Oxygen :	7.80	mg/L
Temperature :	14.28	Deg C
Turbidity :	0.0	NTU
pH :	7.07	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 35 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-35-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-5D

External Sample Number: MW-5D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/17/12 10:50
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	655	umhos/cm
Dissolved Oxygen :	14.57	mg/L
Temperature :	16.20	Deg C
Turbidity :	0.0	NTU
pH :	7.03	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:
(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 36 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-36-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-48B

External Sample Number: MW-48B

Expected Conc: (or Circle One: Low Medium (High)) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/17/12 14:00
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	962	umhos/cm
Dissolved Oxygen :	9.82	mg/L
Temperature :	23.94	Deg C
Turbidity :	12.0	NTU
pH :	7.34	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:
(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 37 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-37-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-48C

External Sample Number: MW-48C

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ **Sample Collection: Start:** 3/17/12 17:00
Longitude: ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	767	umhos/cm
Dissolved Oxygen :	7.20	mg/L
Temperature :	25.53	Deg C
Turbidity :	4.6	NTU
pH :	7.00	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 38 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-38-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-48D

External Sample Number: MW-48D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/17/12 17:45

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	732	umhos/cm
Dissolved Oxygen :	14.44	mg/L
Temperature :	25.02	Deg C
Turbidity :	0.0	NTU
pH :	7.01	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 38 **QC Code:** FD **Matrix:** Water **Tag ID:** 5678-38-FD

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-48D

External Sample Number: MW-48D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/17/12 17:45

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	732	umhos/cm
Dissolved Oxygen :	14.44	mg/L
Temperature :	25.02	Deg C
Turbidity :	0.0	NTU
pH :	7.61	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) Field Duplicate of 5678-38

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 40 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-40-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-51B

External Sample Number: MW-51B

Expected Conc: (or Circle One: Low Medium (High)) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/18/12 __:__
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	801	umhos/cm
Dissolved Oxygen :	1298	mg/L
Temperature :	16.81	Deg C
Turbidity :	0.0	NTU
pH :	7.43	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 40 **QC Code:** FD **Matrix:** Water **Tag ID:** 5678-40-FD

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-51B

External Sample Number: MW-51B

Expected Conc: (or Circle One: Low Medium (High)) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/18/12 9:05
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	801	umhos/cm
Dissolved Oxygen :	12.98	mg/L
Temperature :	16.81	Deg C
Turbidity :	0.0	NTU
pH :	7.43	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) Field Duplicate of 5678-40 KJ 3/18/12

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 42 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-42-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-51C

External Sample Number: MW-51C

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/18/12 10:25
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	720	umhos/cm
Dissolved Oxygen :	18.31	mg/L
Temperature :	17.41	Deg C
Turbidity :	10.2	NTU
pH :	7.78	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:
(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 43 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-43-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-51D

External Sample Number: MW-51D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/18/12 11:00
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	731	umhos/cm
Dissolved Oxygen :	16.70	mg/L
Temperature :	18.59	Deg C
Turbidity :	87.7	NTU
pH :	8.10	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 44 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-44-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-04B

External Sample Number: MW-04B

Expected Conc: (or Circle One: Low Medium (High)) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/18/12 13:20
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	849	umhos/cm
Dissolved Oxygen :	8.00	mg/L
Temperature :	17.07	Deg C
Turbidity :	0.0	NTU
pH :	7.37	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW / SA

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 45 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-45-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-04A

External Sample Number: MW-04A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/18/12 14:05
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	879	umhos/cm
Dissolved Oxygen :	6.45	mg/L
Temperature :	15.57	Deg C
Turbidity :	0.0	NTU
pH :	7.40	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 46 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-46-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-13C

External Sample Number: MW-13C

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/18/12	12:55
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	748	umhos/cm
Dissolved Oxygen :	15.42	mg/L
Temperature :	19.34	Deg C
Turbidity :	0.0	NTU
pH :	7.47	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 47 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-47-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-13E

External Sample Number: MW-13E

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/18/12	~~13:30~~ KJ 3/19/12
Longitude: ___ ___ ___	**End:**	__/__/__	14:10 __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	688 ~~753~~ KJ 3/18/12	umhos/cm
Dissolved Oxygen :	14.40 ~~8.77~~ KJ 3/18/12	mg/L
Temperature :	21.02 ~~20.49~~ KJ 3/18/12	Deg C
Turbidity :	0.0 ~~0.0~~ KJ 3/18/12	NTU
pH :	7.35 ~~7.78~~ KJ 3/18/12	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 48 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-48-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-47B

External Sample Number: MW-47B

Expected Conc: (or Circle One: Low (Medium) High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/18/12 15:30
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	904	umhos/cm
Dissolved Oxygen :	4.53	mg/L
Temperature :	17.28	Deg C
Turbidity :	0.0	NTU
pH :	7.48	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 49 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-49-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-47C

External Sample Number: MW-47C

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/18/12 16:25
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	865	umhos/cm
Dissolved Oxygen :	3.06	mg/L
Temperature :	15.57	Deg C
Turbidity :	0.0	NTU
pH :	7.25	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 50 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-50-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-47D

External Sample Number: MW-47D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/18/12 17:35
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	741	umhos/cm
Dissolved Oxygen :	3.78	mg/L
Temperature :	15.34	Deg C
Turbidity :	0.0	NTU
pH :	7.39	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:
(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 52 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-52-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-50B

External Sample Number: MW-50B

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	3/18/12	15:45
End:	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	796	umhos/cm
Dissolved Oxygen :	10.36	mg/L
Temperature :	18.35	Deg C
Turbidity :	3.8	NTU
pH :	6.82	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 53 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-53-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-50C

External Sample Number: MW-50C

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/18/12	17:05
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	731	umhos/cm
Dissolved Oxygen :	10.35	mg/L
Temperature :	17.69	Deg C
Turbidity :	37.2	NTU
pH :	7.47	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:
(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 54 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-54-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-50D

External Sample Number: MW-50 D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/18/12 18:05
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	6603	umhos/cm
Dissolved Oxygen :	7.65	mg/L
Temperature :	17.06	Deg C
Turbidity :	30.8	NTU
pH :	6.99	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 55 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-55-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-49C

External Sample Number: MW-49C

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/19/12	9:20
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	876	umhos/cm
Dissolved Oxygen :	7.31	mg/L
Temperature :	12.58	Deg C
Turbidity :	0.0	NTU
pH :	6.87	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 56 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-56-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-49D

External Sample Number: MW-49D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/19/12 10:35
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	598	umhos/cm
Dissolved Oxygen :	4.32	mg/L
Temperature :	13.59	Deg C
Turbidity :	1.0	NTU
pH :	7.23	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:
(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 57 **QC Code:** __ **Matrix:** Water **Tag ID:** 5678-57-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-49B

External Sample Number: MW-49B

Expected Conc: (or Circle One: Low (Medium) High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/19/12 9:50
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	745	umhos/cm
Dissolved Oxygen :	7.17	mg/L
Temperature :	14.77	Deg C
Turbidity :	0.0	NTU
pH :	6.98	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:
(N/A)

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 61 **QC Code:** FB **Matrix:** Water **Tag ID:** 5678-61-FB

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: Trip Blank sample

External Sample Number: Trip Blank

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/7/12	16:44
Longitude: ___ ___ ___	**End:**	3/12/12	17:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Prepared by EPA 3/7/12 16:44
Labeled by HGL 3/12/12 17:00

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 62 **QC Code:** FB **Matrix:** Water **Tag ID:** 5678-62-FB

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: Trip Blank sample

External Sample Number: Trip Blank

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/7/12 15:41

Longitude: ___ ___ ___ **End:** 3/15/12 13:15

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Trip Blank prepared by EPA 3/7/12 at 15:41

Trip Blank labeled by HGL 3/15/12 at 13:15

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 63 **QC Code:** FB **Matrix:** Water **Tag ID:** 5678-63-FB

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: Trip Blank sample

External Sample Number: Trip Blank

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/17/12	15:38
Longitude: ___ ___ ___	**End:**	3/17/12	10:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Trip Blank Prepaired by EPA 5/7/2012 15:38

Trip Blank labeled by HGL 5/17/2012 10.00

Sample Collected By: SH/KS

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5678 **Sample Number:** 64 **QC Code:** FB **Matrix:** Water **Tag ID:** 5678-64-FB

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: Trip Blank sample

External Sample Number: Trip Blank

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	3/7/12	15:36
End:	3/19/12	9:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Trip Blank Prepaired by EPA 3/7/12 15:36

Trip Blank Labeled by HGL 3/19/12 9:00

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: Trip Blank sample

External Sample Number: Trip Blank

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___

Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	3/7/12	16:44
End:	3/12/12	17:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Prepared by EPA 3/7/12 16:44

Labeled by HGL 3/12/12 17:00

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
BRIAN ZURBUCHEN	GARVEY ELEVATOR	12 / 03 / 12	1 of 1

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	BOTTLE	BOTTLE	BOTTLE	4 VOA SET (2 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
5680-1					1	X					
5680-2					1	X					
5680-2-FD					1	X					Field Duplicate
5680-4					3	X					EXTRA VOLUME FOR MS/MSD
5680-5					1	X					
5680-6					1	X					
5680-7					1	X					3 VIALS ONLY
5680-8					1	X					
5680-9					1	X					
5680-12					1	X					
5680-13					1	X					
5680-14					1	X					
5680-10					1	X					
5680-10-FD					1	X					Field Duplicate
5680-45-FB					1	X					Trip Blank

A3R NOT COMPLETE
KM
3/14/12

DESCRIPTION OF SHIPMENT

1 PIECE(S) CONSISTING OF _____ BOX(ES)

1 ICE CHEST(S); OTHER _____

MODE OF SHIPMENT

X COMMERCIAL CARRIER: FedEx

____ COURIER

____ SAMPLER CONVEYED

8753 6175 1855 (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
Kyp [signature] ☒ SEALED ☐ UNSEALED	3/14/12	15:30	☐ SEALED ☐ UNSEALED	Shipping
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY

*U.S. GPO: 2002-756-917/40053

US EPA ARCHIVE DOCUMENT

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
BRIAN ZURBUCHEN	GARVEY ELEVATOR	14 / 3 / 12	1 of 1

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	BOTTLE	BOTTLE	BOTTLE	4VOA SET (2 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
5680-15					1	X					
5680-16					1	X					
5680-19					1	X					
5680-20					1	X					
5680-46-FB					1	X					Trip Blank
5680-21					3	X					EXTRA VOLUME FOR MS/MSD

ASR NOT COMPLETE
Kyle M 3/15/12

DESCRIPTION OF SHIPMENT	MODE OF SHIPMENT
1 PIECE(S) CONSISTING OF _____ BOX(ES)	X COMMERCIAL CARRIER: FedEx
1 ICE CHEST(S); OTHER _____	___ COURIER
	___ SAMPLER CONVEYED
	8753 6175 1824 (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
Kyle M — ☒ SEALED ☐ UNSEALED	3/15/12	15:00	☐ SEALED ☐ UNSEALED	Shipping
RELINQUISHED BY — ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY — ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY — ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY — ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY

*U.S. GPO: 2002-756-917/40053

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
BRIAN ZURBUCHEN	GARVEY ELEVATOR	15 / 3 / 12	1 of 1

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	BOTTLE	BOTTLE	BOTTLE	4 VOA SET (12 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
5680-22					1	X					
5680-23					1	X					
5680-26					1	X					
5680-17					1	X					
5680-17-FD					1	X					Field Duplicate
5680-27					1	X					
5680-30					1	X					
5680-31					1	X					
5680-32					3	X					EXTRA VOLUME FOR MS/MSD
5680-33					1	X					
5680-34					1	X					
5680-35					1	X					
5680-36					1	X					
5680-37					1	X					
5680-38					1	X					
5680-24					1	X					
5680-24-FD					1	X					Field Duplicate
5680-28					1	X					
5680-28-FD					1	X					Field Duplicate
5680-47-FB					1	X					Trip Blank
5680-39					1	X					
5680-40					1	X					Equipment Blank
5680-41					1	X					
5680-42					1	X					

ASK COMPLETE

DESCRIPTION OF SHIPMENT	MODE OF SHIPMENT
3 PIECE(S) CONSISTING OF _____ BOX(ES)	___ COMMERCIAL CARRIER: _____
3 ICE CHEST(S); OTHER _____	___ COURIER
	X SAMPLER CONVEYED (SHIPPING DOCUMENT NUMBER) _____

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	

*U.S. GPO: 2002-756-917/40053

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 1 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-1-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-42E

External Sample Number: MW-42E

Expected Conc: (or Circle One: Low (Medium) High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/12/12 17:35
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	453	umhos/cm
Dissolved Oxygen :	6.82	mg/L
Temperature :	15.25	Deg C
Turbidity :	62.8	NTU
pH :	7.13	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW / SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 2 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-2-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-42D

External Sample Number: MW-42D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/12/12 18:35
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	527	umhos/cm
Dissolved Oxygen :	5.77	mg/L
Temperature :	14.72	Deg C
Turbidity :	72.0	NTU
pH :	7.00	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/AS

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** ~~32~~ BW 3-12-12 **QC Code:** ~~ED~~ **Matrix:** Water **Tag ID:** 5680-~~3~~ 2 BW/3-12-12 -~~FD~~

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-42D

External Sample Number: MW-42D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/12/12 18:35
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	527	umhos/cm
Dissolved Oxygen :	5.77	mg/L
Temperature :	14.72	Deg C
Turbidity :	72.0	NTU
pH :	7.00	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW / AS

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 4 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-4-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-106D

External Sample Number: MW-106D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/13/12 09:45
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	414	umhos/cm
Dissolved Oxygen :	3.02	mg/L
Temperature :	11.61	Deg C
Turbidity :	0.0	NTU
pH :	7.02	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

- EXTRA VOLUME FOR MS/MSD ANALYSIS

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 5 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-5-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-106C

External Sample Number: MW-106C

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/13/12 10:45
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	589	umhos/cm
Dissolved Oxygen :	4.30	mg/L
Temperature :	14.02	Deg C
Turbidity :	0.0	NTU
pH :	6.72	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 6 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-6-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-106A

External Sample Number: MW-106A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/13/12 11:50
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	867	umhos/cm
Dissolved Oxygen :	6.71	mg/L
Temperature :	17.72	Deg C
Turbidity :	0.0	NTU
pH :	6.91	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 7 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-7-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-104D

External Sample Number: MW-104D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/13/12 14:05

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	331	umhos/cm
Dissolved Oxygen :	2.24	mg/L
Temperature :	19.44	Deg C
Turbidity :	0.0	NTU
pH :	7.23	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 8 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-8-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-104C

External Sample Number: MW-104C

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/13/17 13:40
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	410	umhos/cm
Dissolved Oxygen :	3.29	mg/L
Temperature :	21.30	Deg C
Turbidity :	0.0	NTU
pH :	7.03	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 9 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-9-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-104A

External Sample Number: MW-104A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/13/12 16:20
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	825	umhos/cm
Dissolved Oxygen :	5.10	mg/L
Temperature :	18.90	Deg C
Turbidity :	0.0	NTU
pH :	7.16	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 10 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-10-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-12C

External Sample Number: MW-12C

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 5/14/12 11:30
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	615	umhos/cm
Dissolved Oxygen :	5.47	mg/L
Temperature :	15.41	Deg C
Turbidity :	0.0	NTU
pH :	6.94	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 10 **QC Code:** FD **Matrix:** Water **Tag ID:** 5680-10-FD

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-12C

External Sample Number: MW-12C

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/14/12 11:30

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	615	umhos/cm
Dissolved Oxygen :	5.47	mg/L
Temperature :	15.41	Deg C
Turbidity :	0.0	NTU
pH :	6.94	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 12 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-12-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-14A

External Sample Number: MW-14A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/13/12 17:50
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	680	umhos/cm
Dissolved Oxygen :	3.85	mg/L
Temperature :	22.17	Deg C
Turbidity :	0.0	NTU
pH :	6.71	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 13 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-13-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-12D

External Sample Number: MW-12D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/14/12 10:00
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	475	umhos/cm
Dissolved Oxygen :	3.98	mg/L
Temperature :	13.41	Deg C
Turbidity :	0.0	NTU
pH :	6.95	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 14 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-14-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-12A

External Sample Number: MW-12A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/14/12 10:45
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	973	umhos/cm
Dissolved Oxygen :	5.92	mg/L
Temperature :	13.21	Deg C
Turbidity :	0.0	NTU
pH :	7.00	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 15 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-15-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-43E

External Sample Number: MW-43E

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/14/12 16:10
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	445	umhos/cm
Dissolved Oxygen :	2.83	mg/L
Temperature :	21.60	Deg C
Turbidity :	0.0	NTU
pH :	7.20	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 16 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-16-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-43D

External Sample Number: MW-43D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/14/12 16:50
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	591	umhos/cm
Dissolved Oxygen :	4.61	mg/L
Temperature :	20.23	Deg C
Turbidity :	0.0	NTU
pH :	6.89	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:
(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 17 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-17-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-105D

External Sample Number: MW-105D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/16/12 09:20
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	480	umhos/cm
Dissolved Oxygen :	4.20	mg/L
Temperature :	~~0.0~~ SW 13.16	Deg C
Turbidity :	0.0	NTU
pH :	7.09	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 17 **QC Code:** FD **Matrix:** Water **Tag ID:** 5680-17-FD

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-105D

External Sample Number: MW-105D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/16/12 09:20
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	480	umhos/cm
Dissolved Oxygen :	4.20	mg/L
Temperature :	13.16	Deg C
Turbidity :	0.0	NTU
pH :	7.09	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 19 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-19-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-11A

External Sample Number: MW-11A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/14/12 18:05
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	508	umhos/cm
Dissolved Oxygen :	4.38	mg/L
Temperature :	15.11	Deg C
Turbidity :	0.0	NTU
pH :	6.67	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 20 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-20-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-18A

External Sample Number: MW-18A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/15/12 13:20
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	413	umhos/cm
Dissolved Oxygen :	5.22	mg/L
Temperature :	17.47	Deg C
Turbidity :	0.0	NTU
pH :	6.43	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 21 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-21-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-18D

External Sample Number: MW-18D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/15/12 14:25
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	564	umhos/cm
Dissolved Oxygen :	3.16	mg/L
Temperature :	14.34	Deg C
Turbidity :	0.0	NTU
pH :	7.16	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 22 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-22-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-18C

External Sample Number: MW-18C

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/15/12 15:10
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:
(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 23 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-23-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-44D

External Sample Number: MW-44D

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/15/12 17:15
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	450	umhos/cm
Dissolved Oxygen :	1.79	mg/L
Temperature :	13.40	Deg C
Turbidity :	2.8	NTU
pH :	7.17	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW / SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 24 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-24-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-17C

External Sample Number: MW-17C

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/17/12 15:30
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	582	umhos/cm
Dissolved Oxygen :	4.50	mg/L
Temperature :	18.83	Deg C
Turbidity :	0.0	NTU
pH :	7.31	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 24 **QC Code:** FD **Matrix:** Water **Tag ID:** 5680-24-FD

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-17C

External Sample Number: MW-17C

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/17/12 15:30
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	582	umhos/cm
Dissolved Oxygen :	4.50	mg/L
Temperature :	18.83	Deg C
Turbidity :	0.0	NTU
pH :	7.31	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 26 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-26-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-44E

External Sample Number: MW-44E

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/15/12 18:05
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	370	umhos/cm
Dissolved Oxygen :	2.53	mg/L
Temperature :	13.98	Deg C
Turbidity :	0.0	NTU
pH :	7.32	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 27 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-27-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-105C

External Sample Number: MW-105C

Expected Conc: (or Circle One: Low (Medium) High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/16/12 10:15
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	713	umhos/cm
Dissolved Oxygen :	5.82	mg/L
Temperature :	14.71	Deg C
Turbidity :	0.0	NTU
pH :	6.90	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 28 **QC Code:** FD **Matrix:** Water **Tag ID:** 5680-28-FD

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-45C

External Sample Number: MW-45C

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/17/12 17:15

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	673	umhos/cm
Dissolved Oxygen :	6.45	mg/L
Temperature :	18.89	Deg C
Turbidity :	11.9	NTU
pH :	7.45	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 28 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-28-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-45C

External Sample Number: MW-45C

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/17/12 17:15
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	673	umhos/cm
Dissolved Oxygen :	6.45	mg/L
Temperature :	18.89	Deg C
Turbidity :	11.9	NTU
pH :	7.45	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 30 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-30-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-105A

External Sample Number: MW-105A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/16/12 11:10
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	950	umhos/cm
Dissolved Oxygen :	6.43	mg/L
Temperature :	14.75	Deg C
Turbidity :	0.0	NTU
pH :	7.06	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 31 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-31-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-41D1

External Sample Number: MW-41D1

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/16/12 13:45

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	728	umhos/cm
Dissolved Oxygen :	5.59	mg/L
Temperature :	19.43	Deg C
Turbidity :	0.0	NTU
pH :	6.96	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 32 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-32-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-41D2

External Sample Number: MW-41D2

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/16/12 15:00
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	375	umhos/cm
Dissolved Oxygen :	3.27	mg/L
Temperature :	17.76	Deg C
Turbidity :	51.0	NTU
pH :	7.18	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

- EXTRA VOLUME FOR MS/MSD ANALYSIS

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 33 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-33-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-46D2

External Sample Number: MW-46D2

Expected Conc: (or Circle One: Low (Medium) High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/16/12 16:55
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	614	umhos/cm
Dissolved Oxygen :	4.54	mg/L
Temperature :	19.14	Deg C
Turbidity :	11.8	NTU
pH :	7.13	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 34 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-34-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-46D1

External Sample Number: MW-46D1

Expected Conc: (or Circle One: Low Medium (High)) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/16/12 17:50
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	625	umhos/cm
Dissolved Oxygen :	5.06	mg/L
Temperature :	18.83	Deg C
Turbidity :	0.0	NTU
pH :	6.93	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 35 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-35-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-16C

External Sample Number: MW-16C

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/17/12 09:20
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	831	umhos/cm
Dissolved Oxygen :	6.47	mg/L
Temperature :	13.09	Deg C
Turbidity :	0.0	NTU
pH :	7.06	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:
(N/A)

Sample Collected By: BW / SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 36 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-36-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-16A

External Sample Number: MW-16A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/17/12 10:15
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	975	umhos/cm
Dissolved Oxygen :	6.37	mg/L
Temperature :	14.40	Deg C
Turbidity :	0.0	NTU
pH :	6.99	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 37 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-37-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-17A

External Sample Number: MW-17A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/17/12 12:05
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	916	umhos/cm
Dissolved Oxygen :	6.10	mg/L
Temperature :	14.59	Deg C
Turbidity :	0.0	NTU
pH :	7.33	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 38 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-38-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-17D

External Sample Number: MW-17D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/17/12 14:50
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	309	umhos/cm
Dissolved Oxygen :	2.99	mg/L
Temperature :	16.69	Deg C
Turbidity :	0.0	NTU
pH :	7.54	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 39 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-39-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-45D

External Sample Number: MW-45D

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/18/12 08:55
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	610	umhos/cm
Dissolved Oxygen :	8.15	mg/L
Temperature :	13.92	Deg C
Turbidity :	0.0	NTU
pH :	7.39	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 40 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-40-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: RINSATE BLANK

External Sample Number: RINSATE BLANK

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/18/12 09:15
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :		umhos/cm
Dissolved Oxygen :		mg/L
Temperature :		Deg C
Turbidity :		NTU
pH :		SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

- EQUIPMENT RINSATE BLANK

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 41 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-41-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-10B

External Sample Number: MW-10B

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/18/12 10:10
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	844	umhos/cm
Dissolved Oxygen :	6.80	mg/L
Temperature :	14.48	Deg C
Turbidity :	0.0	NTU
pH :	7.35	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 42 **QC Code:** __ **Matrix:** Water **Tag ID:** 5680-42-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW-10A

External Sample Number: MW-10A

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/18/12 11:00
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Field Measurement

Parameter	Value	Units
Conductance, Specific :	928	umhos/cm
Dissolved Oxygen :	6.80	mg/L
Temperature :	15.12	Deg C
Turbidity :	0.0	NTU
pH :	7.37	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BWJ/SA

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Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 45 **QC Code:** FB **Matrix:** Water **Tag ID:** 5680-45-FB

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: Trip Blank sample

External Sample Number: Trip Blank

Expected Conc: (or Circle One: (Low) Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/7/12	15:47
Longitude: ___ ___ ___	**End:**	3/14/12	14:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Trip Blank prepared by EPA on 3/7/12 at 15:47

Trip Blank Labeled by HGL on 3/14/12 at 14:00

Sample Collected By: SH/KJ

US EPA ARCHIVE DOCUMENT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 46 **QC Code:** FB **Matrix:** Water **Tag ID:** 5680-46-FB

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: Trip Blank sample

External Sample Number: _____

Expected Conc: (or Circle One: (Low) Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	3/7/12	15:54
End:	3/15/12	13:50

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: BW/SA

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Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5680 **Sample Number:** 47 **QC Code:** FB **Matrix:** Water **Tag ID:** 5680-47-FB

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: Trip Blank sample

External Sample Number: _____

Expected Conc: (or Circle One: (Low) Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/7/12 15:52
Longitude: ___ ___ ___ **End:** 3/17/12 16:30

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:
(N/A)

Sample Collected By: BW/SA

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ATTACHMENT 6

LABORATORY ANALYTICAL REPORTS

(Electronic Form Only)

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DECEMBER 2011

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United States Environmental Protection Agency
Region 7
901 N. 5th Street
Kansas City, KS 66101

Date: 01/18/2012

Subject: Transmittal of Sample Analysis Results for ASR #: 5619

Project ID: BZA72Z01

Project Description: Garvey Elevator - RI/FS sampling

From: Michael F. Davis, Chief
Chemical Analysis and Response Branch, Environmental Services Division

To: Brian Zurbuchen
SUPR/IANE

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

US EPA ARCHIVE DOCUMENT

Project Manager: Brian Zurbuchen Org: SUPR/IANE Phone: 913-551-7101

Project ID: BZA72Z01 QAPP Number: SDMS 40322811

Project Desc: Garvey Elevator - RI/FS sampling

Location: Hastings State: Nebraska Program: Superfund

Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

GPRA PRC: 303DD2

Purpose: Site Characterization

On-site monitoring well sampling - OU #01. Field contact phone: (816) 589-4036 (Jeff G.)

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of sample for quality control purpose.

__ = Field Sample
FB = Field Blank
FD = Field Duplicate

Units: Specific units in which results are reported.

umhos/cm = Micromhos per Centimeter
mg/L = Milligrams per Liter
ug/L = Micrograms per Liter
SU = Standard Units (pH)
NTU = Nephelometric Turbidity Units
Deg C = Degrees Celsius

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.
UJ = The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
J = The identification of the analyte is acceptable; the reported value is an estimate.
U = The analyte was not detected at or above the reporting limit.

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Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1	__	Water	MW-6D		12/14/2011	10:50			12/16/2011
2	__	Water	MW-6A		12/14/2011	12:25			12/16/2011
2	FD	Water	MW-6A/Field Duplicate of sample 2		12/14/2011	12:25			12/16/2011
4	__	Water	MW-6E		12/14/2011	14:15			12/16/2011
5	__	Water	MW-47B		12/14/2011	15:30			12/16/2011
5	FD	Water	MW-47B/Field Duplicate of sample 5		12/14/2011	15:30			12/16/2011
7	__	Water	MW-47D		12/14/2011	17:48			12/16/2011
8	__	Water	MW-47C		12/15/2011	09:25			12/16/2011
9	__	Water	MW-9A		12/15/2011	10:35			12/16/2011
10	__	Water	MW-7A		12/15/2011	12:00			12/16/2011
11	__	Water	MW-7B		12/15/2011	12:50			12/16/2011
12	__	Water	MW-01A		12/15/2011	14:15			12/16/2011
13	__	Water	MW-08A		12/15/2011	15:55			12/19/2011
14	__	Water	MW-02A		12/15/2011	17:20			12/19/2011
15	__	Water	Rinsate sample		12/16/2011	08:00			12/19/2011
16	__	Water	MW-31A		12/16/2011	10:05			12/19/2011
17	__	Water	MW-31C		12/16/2011	11:00			12/19/2011
18	__	Water	MW-30A		12/16/2011	12:00			12/19/2011
19	__	Water	MW-30D		12/16/2011	13:50			12/19/2011
20	__	Water	MW-30E		12/16/2011	15:30			12/19/2011
21	__	Water	MW-19C		12/16/2011	16:30			12/19/2011
22	__	Water	MW-30C		12/16/2011	13:00			12/19/2011
22	FD	Water	MW-30C/Field Duplicate of sample 22		12/16/2011	13:00			12/19/2011
24	__	Water	MW-20A		12/17/2011	09:50			12/19/2011
25	__	Water	MW-20C		12/17/2011	10:45			12/19/2011
26	__	Water	MW-20D		12/17/2011	11:20			12/19/2011
27	__	Water	MW-20E		12/17/2011	12:05			12/19/2011
28	__	Water	MW-3A		12/17/2011	13:50			12/19/2011
29	__	Water	MW-3B		12/15/2011	14:50			12/19/2011
29	FD	Water	MW-3B/Field Duplicate of sample 29		12/15/2011	14:50			12/19/2011
31	__	Water	MW-3E		12/17/2011	15:45			12/19/2011
32	__	Water	MW-3D		12/17/2011	16:45			12/19/2011
33	__	Water	MW-4B		12/18/2011	10:05			12/21/2011
34	__	Water	MW-4A		12/18/2011	11:15			12/21/2011
35	__	Water	MW-5B		12/18/2011	12:05			12/21/2011
36	__	Water	MW-5A		12/18/2011	13:00			12/21/2011
37	__	Water	MW-48D		12/18/2011	16:05			12/21/2011
38	__	Water	MW-48B		12/18/2011	14:40			12/21/2011
38	FD	Water	MW-48B/Field Duplicate of sample 38		12/18/2011	14:40			12/21/2011
40	__	Water	MW-48C		12/18/2011	17:00			12/21/2011
40	FD	Water	MW-48C/Field Duplicate of sample 40		12/18/2011	17:00			12/21/2011
42	__	Water	MW-19A		12/19/2011	08:50			12/21/2011

US EPA ARCHIVE DOCUMENT

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
43	__	Water	MW-5D		12/19/2011	09:50			12/21/2011
44	__	Water	MW-13E		12/19/2011	10:50			12/21/2011
45	__	Water	MW-13C		12/19/2011	11:50			12/21/2011
46	__	Water	MW-51B		12/19/2011	12:30			12/21/2011
47	__	Water	MW-51D		12/19/2011	13:20			12/21/2011
48	__	Water	MW-51C		12/19/2011	15:10			12/21/2011
49	__	Water	MW-49B		12/19/2011	16:10			12/21/2011
50	__	Water	MW-49C		12/19/2011	17:20			12/21/2011
52	__	Water	MW-49D		12/20/2011	08:50			12/21/2011
53	__	Water	MW-50C		12/20/2011	10:20			12/21/2011
54	__	Water	MW-50B		12/20/2011	11:05			12/21/2011
55	__	Water	MW-50D		12/20/2011	11:55			12/21/2011
61	FB	Water	Trip Blank sample #1		12/07/2011	08:22	12/14/2011	10:30	12/16/2011
62	FB	Water	Trip Blank sample #2		12/07/2011	08:28	12/16/2011	11:40	12/19/2011
63	FB	Water	Trip Blank sample #3		12/07/2011	08:25	12/18/2011	09:00	12/21/2011

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Analysis Comments About Results For This Analysis

1 Conductivity by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:							
	1-__	2-__	2-FD	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	16-__	17-__	18-__	19-__	20-__	21-__	22-__
	22-FD	24-__	25-__	26-__	27-__	28-__	29-__
	29-FD	31-__	32-__	33-__	34-__	35-__	36-__
	37-__	38-__	38-FD	40-__	40-FD	42-__	43-__
	44-__	45-__	46-__	47-__	48-__	49-__	50-__
	52-__	53-__	54-__	55-__			

Comments:
(N/A)

1 pH of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:							
	1-__	2-__	2-FD	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	16-__	17-__	18-__	19-__	20-__	21-__	22-__
	22-FD	24-__	25-__	26-__	27-__	28-__	29-__
	29-FD	31-__	32-__	33-__	34-__	35-__	36-__
	37-__	38-__	38-FD	40-__	40-FD	42-__	43-__
	44-__	45-__	46-__	47-__	48-__	49-__	50-__
	52-__	53-__	54-__	55-__			

Comments:
(N/A)

1 Temperature of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:							
	1-__	2-__	2-FD	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	16-__	17-__	18-__	19-__	20-__	21-__	22-__
	22-FD	24-__	25-__	26-__	27-__	28-__	29-__
	29-FD	31-__	32-__	33-__	34-__	35-__	36-__
	37-__	38-__	38-FD	40-__	40-FD	42-__	43-__
	44-__	45-__	46-__	47-__	48-__	49-__	50-__
	52-__	53-__	54-__	55-__			

Comments:

US EPA ARCHIVE DOCUMENT

Analysis Comments About Results For This Analysis

(N/A)

1 Total Dissolved Oxygen in Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:							
	1-__	2-__	2-FD	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	16-__	17-__	18-__	19-__	20-__	21-__	22-__
	22-FD	24-__	25-__	26-__	27-__	28-__	29-__
	29-FD	31-__	32-__	33-__	34-__	35-__	36-__
	37-__	38-__	38-FD	40-__	40-FD	42-__	43-__
	44-__	45-__	46-__	47-__	48-__	49-__	50-__
	52-__	53-__	54-__	55-__			

Comments:
(N/A)

1 Turbidity of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:							
	1-__	2-__	2-FD	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	16-__	17-__	18-__	19-__	20-__	21-__	22-__
	22-FD	24-__	25-__	26-__	27-__	28-__	29-__
	29-FD	31-__	32-__	33-__	34-__	35-__	36-__
	37-__	38-__	38-FD	40-__	40-FD	42-__	43-__
	44-__	45-__	46-__	47-__	48-__	49-__	50-__
	52-__	53-__	54-__	55-__			

Comments:
(N/A)

1 VOCs in Water by GC/MS for Low Detection Limits

Lab: Region 7 ESAT Contract Lab (In-House)

Method: EPA Region 7 RLAB Method 3230.13E

Samples:							
	1-__	2-__	2-FD	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	15-__	16-__	17-__	18-__	19-__	20-__	21-__
	22-__	22-FD	24-__	25-__	26-__	27-__	28-__
	29-__	29-FD	31-__	32-__	33-__	34-__	35-__
	36-__	37-__	38-__	38-FD	40-__	40-FD	42-__
	43-__	44-__	45-__	46-__	47-__	48-__	49-__
	50-__	52-__	53-__	54-__	55-__	61-FB	62-FB

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Analysis Comments About Results For This Analysis

Samples: 63-FB

Comments:
Styrene (20.63%) was UJ-coded in samples 1, 2, 4, 5, 7-22, 24-29, 31-38, 40, 42-50, 52-55, 2-FD, 5-FD, 22-FD, 29-FD, 38-FD, 40-FD, 61-FB, 62-FB, and 63-FB. This analyte was not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the initial instrument calibration curve not meeting linearity specifications. The actual reporting limit may be higher than the reported value.

Acetone (69%, 70%-130%) and 2-Hexanone (67%, 70%-130%) were UJ-coded in samples 1, 2, 4, 5, 7-22, 24-29, 32-38, 40, 42-50, 52-55, 2-FD, 5-FD, 22-FD, 29-FD, 38-FD, 40-FD, 61-FB, 62-FB, and 63-FB. 2-Hexanone was also UJ-coded in sample 31. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the second source verification standard not meeting QC limits. The actual reporting limit may be higher than the reported value.

Acetone (69%, 70%-130%) was J-coded in sample 31. Although the analyte in question haS been positively identified in the samples, the quantitation is an estimate (J-coded) due to the second source verification standard not meeting QC limits.

Acetone (24.7%) and 2-Hexanone (28.0%) were UJ-coded in samples 34, and 42. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. The actual reporting limit for these analytes may be higher than the reported value.

Styrene (19% & 20%, 22%-148%) was UJ-coded in sample 19. This analyte was not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of this analyte in the laboratory matrix spike. The actual reporting limit for this analyte may be higher than the reported value.

Cyclohexane (71%, 72%-126%) was UJ-coded in sample 33. This analyte was not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of this analyte in the laboratory matrix spike. The actual reporting limit for this analyte may be higher than the reported value.

2-Butanone (19RPD, 13PCL) was UJ-coded in sample 19. This analyte was not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to poor precision obtained for this analyte in the laboratory matrix spike and matrix spike duplicate. The actual reporting limit for this analyte may be higher than the reported value.

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Analysis/ Analyte	Units	1-__	2-__	2-FD	4-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	5.41	0.821	0.821	0.347
1 pH of Water by Field Measurement					
pH	SU	7.41	7.65	7.65	7.96
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.95	8.79	8.79	10.38
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.28	8.52	8.52	5.03
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.1	4.4	4.4	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	5.6	5.6	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	1-__	2-__	2-FD	4-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	5-__	5-FD	7-__	8-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.850	0.850	0.676	0.803
1 pH of Water by Field Measurement					
pH	SU	7.74	7.74	7.69	7.25
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.78	10.78	9.75	10.96
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	10.50	10.50	8.65	8.49
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	22.6	22.6	29.2	4.4
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	72	74	1.0 U	5.6
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	4.7	4.8	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	5-__	5-FD	7-__	8-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.1	1.1	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.937	0.782	0.816	0.740
1 pH of Water by Field Measurement					
pH	SU	7.56	7.53	7.48	7.50
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.35	8.24	10.1	9.97
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	9.08	10.77	8.58	8.88
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	10.0	3.3	2.7	6.8
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	1.13	0.728		0.888
1 pH of Water by Field Measurement					
pH	SU	7.64	7.52		7.51
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.42	8.29		9.38
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	8.20	6.98		0.48
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	4.4	6.5		6.5
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	5.7
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	10
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	2.4	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.386	0.687	0.690	0.660
1 pH of Water by Field Measurement					
pH	SU	7.40	7.32	7.18	8.0
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.17	12.01	11.32	11.59
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	6.30	6.52	2.91	12.20
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	1.8	0.9	15.6	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.3	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	210	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	4.1	1.7	1.8
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.1	1.0 U

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Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	21-__	22-__	22-FD	24-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.729	0.679	0.679	0.769
1 pH of Water by Field Measurement					
pH	SU	7.72	7.89	7.89	7.11
1 Temperature of Water by Field Measurement					
Temperature	Deg C	9.72	10.76	10.76	8.32
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.11	13.14	13.14	3.34
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	10.6
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.3	1.4	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	21-__	22-__	22-FD	24-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	25-__	26-__	27-__	28-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.553	0.461	0.405	0.931
1 pH of Water by Field Measurement					
pH	SU	7.20	6.92	7.68	7.31
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.20	11.34	11.83	12.50
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.24	0.0	3.56	7.90
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	2.0	19.0	0.0	7.2
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.9	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.4
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	25-__	26-__	27-__	28-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	29-__	29-FD	31-__	32-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.838	0.838	0.564	0.536
1 pH of Water by Field Measurement					
pH	SU	7.26	7.26	8.01	7.41
1 Temperature of Water by Field Measurement					
Temperature	Deg C	11.95	11.95	12.38	12.42
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.33	7.33	5.96	6.67
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	15.3	15.3	1.8	4.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	8.5 J	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	180	170	1.1	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	29-__	29-FD	31-__	32-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	33-__	34-__	35-__	36-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.775	0.727	0.847	0.774
1 pH of Water by Field Measurement					
pH	SU	7.01	7.06	6.96	7.02
1 Temperature of Water by Field Measurement					
Temperature	Deg C	12.62	12.71	13.71	14.11
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	8.15	6.01	5.65	8.62
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	47.0	26.3	3.6	34.1
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	850	38	26	5.1
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.6	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	33-__	34-__	35-__	36-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	37-__	38-__	38-FD	40-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.584	0.832	0.832	0.622
1 pH of Water by Field Measurement					
pH	SU	7.43	7.05	7.05	6.87
1 Temperature of Water by Field Measurement					
Temperature	Deg C	13.57	13.25	13.25	13.99
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	10.81	8.75	8.75	5.55
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	21.5	61.0	61.0	28.9
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	660	660	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.8	1.7	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	37-__	38-__	38-FD	40-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	40-FD	42-__	43-__	44-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.622	1.00	0.576	0.555
1 pH of Water by Field Measurement					
pH	SU	6.87	7.13	7.07	7.44
1 Temperature of Water by Field Measurement					
Temperature	Deg C	13.99	12.88	11.27	12.95
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	5.55	4.05	7.91	7.47
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	28.9	0.0	13.3	1.6
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	97	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	4.6	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	40-FD	42-__	43-__	44-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	5.8	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	45-__	46-__	47-__	48-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.640	0.706	0.674	0.662
1 pH of Water by Field Measurement					
pH	SU	7.38	7.30	7.92	7.77
1 Temperature of Water by Field Measurement					
Temperature	Deg C	13.27	11.23	11.93	12.47
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	8.90	6.39	10.03	11.59
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	2.8	0.0	119	126
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.2	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	80	2000	1.0 U	2.3
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	17	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.1	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	45-__	46-__	47-__	48-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	49-__	50-__	52-__	53-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.683	0.726	0.534	0.640
1 pH of Water by Field Measurement					
pH	SU	7.04	7.01	7.2	7.68
1 Temperature of Water by Field Measurement					
Temperature	Deg C	11.11	12.98	12.52	11.21
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	6.18	4.83	4.48	8.83
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	3.9	17.9	32.9
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	40	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	49-__	50-__	52-__	53-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	54-__	55-__	61-FB	62-FB
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.545	0.563		
1 pH of Water by Field Measurement					
pH	SU	7.27	7.18		
1 Temperature of Water by Field Measurement					
Temperature	Deg C	12.37	12.56		
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	8.32	7.69		
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	10.6	29.8		
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	190	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	54-__	55-__	61-FB	62-FB
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	63-FB
1 VOCs in Water by GC/MS for Low Detection Limits		
Acetone	ug/L	5.0 UJ
Benzene	ug/L	1.0 U
Bromodichloromethane	ug/L	1.0 U
Bromoform	ug/L	1.0 U
Bromomethane	ug/L	1.0 U
2-Butanone	ug/L	5.0 U
Carbon Disulfide	ug/L	1.0 U
Carbon Tetrachloride	ug/L	1.0 U
Chlorobenzene	ug/L	1.0 U
Chloroethane	ug/L	1.0 U
Chloroform	ug/L	1.0 U
Chloromethane	ug/L	1.0 U
Cyclohexane	ug/L	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U
Dibromochloromethane	ug/L	1.0 U
1,2-Dibromoethane	ug/L	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U
1,1-Dichloroethane	ug/L	1.0 U
1,2-Dichloroethane	ug/L	1.0 U
1,1-Dichloroethene	ug/L	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U
1,2-Dichloropropane	ug/L	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U
Ethyl Benzene	ug/L	1.0 U
2-Hexanone	ug/L	5.0 UJ
Isopropylbenzene	ug/L	1.0 U
Methyl Acetate	ug/L	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U
Methylcyclohexane	ug/L	1.0 U
Methylene Chloride	ug/L	1.0 U
4-Methyl-2-Pentanone	ug/L	5.0 U
Naphthalene	ug/L	2.0 U
Styrene	ug/L	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U
Tetrachloroethene	ug/L	1.0 U
Toluene	ug/L	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U

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Analysis/ Analyte	Units	63-FB
Trichloroethene	ug/L	1.0 U
Trichlorofluoromethane	ug/L	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U
Vinyl Chloride	ug/L	1.0 U
m and/or p-Xylene	ug/L	2.0 U
o-Xylene	ug/L	1.0 U

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United States Environmental Protection Agency
Region VII
901 N. 5th Street
Kansas City, KS 66101

Date: __/__/____

Subject: Data Disposition/Sample Release for ASR #: 5619

Project ID: BZA72Z01

Project Description: Garvey Elevator - RI/FS sampling

From: Brian Zurbuchen
SUPR/IANE

To: Kaye Dollmann
ENSV/CARB

I have received and reviewed the Transmittal of Sample Analysis Results for the above-referenced Analytical Services Request(ASR) and have indicated my findings below by checking one of the boxes for Data Disposition.

I understand all samples will be disposed upon receipt of this form, unless samples are requested to be held. If I do not return this form all samples will be disposed of on _____.

☐ "RELEASED" - Read-only to all Region 7 employees and contractors that have R7LIMS "Customer" account. All Samples may be disposed of upon receipt of this form if not requested to be held.

☐ "Project Manager Accessible" - Available on the LAN in R7LIMS for my use only. All Samples may be disposed of upon receipt of this form if not requested to be held.

☐ "Archived" - THIS DATA IS OF A SENSITIVE NATURE. Any future reports must be requested through the laboratory. All samples may be disposed of upon receipt of the form if not requested to be held.

☐ Hold Samples - I have determined that the samples need to be held until _____, after which time they will be disposed of in accordance with applicable regulations.
The reason for the hold is:

☐ Samples are associated with a legal proceeding.

☐ Question/Concern with data - possible reanalysis requested.

☐ Other:_____

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MARCH 2012

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United States Environmental Protection Agency
Region 7
901 N. 5th Street
Kansas City, KS 66101

Date: 04/19/2012

Subject: Transmittal of Sample Analysis Results for ASR #: 5678

Project ID: BZA72Z01

Project Description: Garvey Elevator - RI/FS sampling

From: Michael F. Davis, Chief
Chemical Analysis and Response Branch, Environmental Services Division

To: Brian Zurbuchen
SUPR/IANE

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

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Project Manager: Brian Zurbuchen Org: SUPR/IANE Phone: 913-551-7101

Project ID: BZA72Z01 QAPP Number: SDMS 40322811

Project Desc: Garvey Elevator - RI/FS sampling

Location: Hastings State: Nebraska Program: Superfund

Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

GPRA PRC: 303DD2

Purpose: Site Characterization

On-site monitoring well sampling - OU #01. Field contact phone: (402) 304-4260 Stephen Holmes

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of sample for quality control purpose.

__ = Field Sample
FB = Field Blank
FD = Field Duplicate

Units: Specific units in which results are reported.

ug/L = Micrograms per Liter
SU = Standard Units (pH)
umhos/cm = Micromhos per Centimeter
mg/L = Milligrams per Liter
NTU = Nephelometric Turbidity Units
Deg C = Degrees Celsius

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.
UJ = The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
J = The identification of the analyte is acceptable; the reported value is an estimate.
U = The analyte was not detected at or above the reporting limit.

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Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1	__	Water	MW-06A		03/12/2012	18:15			03/15/2012
2	__	Water	MW-06D		03/12/2012	19:00			03/15/2012
2	FD	Water	MW-06D		03/12/2012	19:00			03/15/2012
4	__	Water	MW-06E		03/13/2012	09:00			03/15/2012
5	__	Water	MW-08A		03/13/2012	11:55			03/15/2012
5	FD	Water	MW-08A		03/13/2012	11:55			03/15/2012
7	__	Water	MW-02A		03/13/2012	15:35			03/15/2012
8	__	Water	MW-03D		03/13/2012	16:45			03/15/2012
9	__	Water	MW-03B		03/13/2012	17:20			03/15/2012
10	__	Water	MW-03E		03/14/2012	09:40			03/15/2012
11	__	Water	MW-03A		03/14/2012	08:50			03/15/2012
12	__	Water	Rolls Old Well		03/14/2012	10:15			03/15/2012
13	__	Water	Rolls New Well		03/14/2012	10:20			03/15/2012
14	__	Water	MW-30E		03/14/2012	13:40			03/15/2012
15	__	Water	MW-30A		03/14/2012	14:15			03/15/2012
16	__	Water	MW-30C		03/14/2012	15:15			03/15/2012
17	__	Water	MW-30D		03/14/2012	17:35			03/16/2012
18	__	Water	MW-31A		03/14/2012	18:20			03/16/2012
19	__	Water	MW-31C		03/15/2012	12:00			03/16/2012
20	__	Water	MW-20E		03/15/2012	14:30			03/16/2012
21	__	Water	MW-20D		03/15/2012	16:55			03/19/2012
22	__	Water	MW-20C		03/15/2012	18:06			03/19/2012
22	FD	Water	MW-20C		03/15/2012	18:06			03/19/2012
24	__	Water	MW-19A		03/16/2012	10:10			03/19/2012
25	__	Water	MW-19C		03/16/2012	11:10			03/19/2012
26	__	Water	MW-20A		03/16/2012	13:40			03/19/2012
27	__	Water	MW-9A		03/16/2012	15:15			03/19/2012
28	__	Water	MW-7B		03/16/2012	16:20			03/19/2012
29	__	Water	MW-7A		03/16/2012	16:50			03/19/2012
29	FD	Water	MW-7A		03/16/2012	16:50			03/19/2012
31	__	Water	Equipment Blank		03/16/2012	16:00			03/19/2012
32	__	Water	MW-1A		03/16/2012	18:05			03/19/2012
33	__	Water	MW-5B		03/17/2012	09:15			03/19/2012
34	__	Water	MW-5A		03/17/2012	09:50			03/19/2012
35	__	Water	MW-5D		03/17/2012	10:50			03/19/2012
36	__	Water	MW-48B		03/17/2012	14:00			03/19/2012
37	__	Water	MW-48C		03/17/2012	17:00			03/19/2012
38	__	Water	MW-48D		03/17/2012	17:45			03/19/2012
38	FD	Water	MW-48D		03/17/2012	17:45			03/19/2012
40	__	Water	MW-51B		03/18/2012	09:05			03/19/2012
40	FD	Water	MW-51B		03/18/2012	09:05			03/19/2012
42	__	Water	MW-51C		03/18/2012	10:25			03/19/2012
43	__	Water	MW-51D		03/18/2012	11:00			03/19/2012
44	__	Water	MW-04B		03/18/2012	13:20			03/19/2012

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Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
45	__	Water	MW-04A		03/18/2012	14:05			03/19/2012
46	__	Water	MW-13C		03/18/2012	12:55			03/19/2012
47	__	Water	MW-13E		03/18/2012	14:10			03/19/2012
48	__	Water	MW-47B		03/18/2012	15:30			03/19/2012
49	__	Water	MW-47C		03/18/2012	16:25			03/19/2012
50	__	Water	MW-47D		03/18/2012	17:35			03/19/2012
52	__	Water	MW-50B		03/18/2012	15:45			03/19/2012
53	__	Water	MW-50C		03/18/2012	17:05			03/19/2012
54	__	Water	MW-50D		03/18/2012	18:05			03/19/2012
55	__	Water	MW-49C		03/19/2012	09:20			03/20/2012
56	__	Water	MW-49D		03/19/2012	10:35			03/20/2012
57	__	Water	MW-49B		03/19/2012	09:50			03/20/2012
61	FB	Water	Trip Blank sample		03/07/2012	16:44	03/12/2012	17:00	03/15/2012
62	FB	Water	Trip Blank sample		03/07/2012	15:41	03/15/2012	13:15	03/16/2012
63	FB	Water	Trip Blank sample		03/07/2012	15:38	03/17/2012	10:00	03/19/2012
64	FB	Water	Trip Blank sample		03/07/2012	15:36	03/19/2012	09:00	03/20/2012

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Analysis Comments About Results For This Analysis

1 Conductivity by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:							
	1-__	2-__	2-FD	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	15-__	16-__	17-__	18-__	19-__	20-__	21-__
	22-__	22-FD	24-__	25-__	26-__	27-__	28-__
	29-__	29-FD	32-__	33-__	34-__	35-__	36-__
	37-__	38-__	38-FD	40-__	40-FD	42-__	43-__
	44-__	45-__	46-__	47-__	48-__	49-__	50-__
	52-__	53-__	54-__	55-__	56-__	57-__	

Comments:
(N/A)

1 pH of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:							
	1-__	2-__	2-FD	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	15-__	16-__	17-__	18-__	19-__	20-__	21-__
	22-__	22-FD	24-__	25-__	26-__	27-__	28-__
	29-__	29-FD	32-__	33-__	34-__	35-__	36-__
	37-__	38-__	38-FD	40-__	40-FD	42-__	43-__
	44-__	45-__	46-__	47-__	48-__	49-__	50-__
	52-__	53-__	54-__	55-__	56-__	57-__	

Comments:
(N/A)

1 Temperature of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:							
	1-__	2-__	2-FD	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	15-__	16-__	17-__	18-__	19-__	20-__	21-__
	22-__	22-FD	24-__	25-__	26-__	27-__	28-__
	29-__	29-FD	32-__	33-__	34-__	35-__	36-__
	37-__	38-__	38-FD	40-__	40-FD	42-__	43-__
	44-__	45-__	46-__	47-__	48-__	49-__	50-__
	52-__	53-__	54-__	55-__	56-__	57-__	

Comments:

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Analysis Comments About Results For This Analysis

(N/A)

1 Total Dissolved Oxygen in Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:							
	1-__	2-__	2-FD	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	15-__	16-__	17-__	18-__	19-__	20-__	21-__
	22-__	22-FD	24-__	25-__	26-__	27-__	28-__
	29-__	29-FD	32-__	33-__	34-__	35-__	36-__
	37-__	38-__	38-FD	40-__	40-FD	42-__	43-__
	44-__	45-__	46-__	47-__	48-__	49-__	50-__
	52-__	53-__	54-__	55-__	56-__	57-__	

Comments:
(N/A)

1 Turbidity of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:							
	1-__	2-__	2-FD	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	15-__	16-__	17-__	18-__	19-__	20-__	21-__
	22-__	22-FD	24-__	25-__	26-__	27-__	28-__
	29-__	29-FD	32-__	33-__	34-__	35-__	36-__
	37-__	38-__	38-FD	40-__	40-FD	42-__	43-__
	44-__	45-__	46-__	47-__	48-__	49-__	50-__
	52-__	53-__	54-__	55-__	56-__	57-__	

Comments:
(N/A)

1 VOCs in Water by GC/MS for Low Detection Limits

Lab: Region 7 ESAT Contract Lab (In-House)

Method: EPA Region 7 RLAB Method 3230.13E

Samples:							
	1-__	2-__	2-FD	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	15-__	16-__	17-__	18-__	19-__	20-__	21-__
	22-__	22-FD	24-__	25-__	26-__	27-__	28-__
	29-__	29-FD	31-__	32-__	33-__	34-__	35-__
	36-__	37-__	38-__	38-FD	40-__	40-FD	42-__
	43-__	44-__	45-__	46-__	47-__	48-__	49-__
	50-__	52-__	53-__	54-__	55-__	56-__	57-__

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Analysis Comments About Results For This Analysis

Samples: 61-FB 62-FB 63-FB 64-FB

Comments:
Styrene (20.63%) was UJ-coded in samples 1, 2, 4, 5, 7-19, 20-22, 24-28, 29, 31-38, 40, 42-50, 52-57, 61-FB, 62-FB, 63-FB, 64-FB, 2-FD, 5-FD, 22-FD, 29-FD, 38-FD, and 40-FD. This analyte was not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the initial instrument calibration curve not meeting linearity specifications. The actual reporting limit may be higher than the reported value.

Acetone (69%, 70%-130%) and 2-Hexanone (67%, 70%-130%) were UJ-coded in samples 1, 2, 4, 5, 7-9, 11-19, 20-22, 24-28, 29, 31-38, 40, 42-50, 52-57, 61-FB, 62-FB, 63-FB, 64-FB, 2-FD, 5-FD, 22-FD, 29-FD, 38-FD, and 40-FD. 2-Hexanone was also UJ- coded in sample 10. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the second source verification standard not meeting QC limits. The actual reporting limit may be higher than the reported value.

Acetone (69%, 70%-130%) was J-coded in sample 10. Although the analyte in question has been positively identified in the samples, the quantitation is an estimate (J-coded) due to the second source verification standard not meeting QC limits.

1,2-Dibromo-3-Chloropropane (+23.1%) and Naphthalene (+23.5%) were UJ-coded in samples 45, 53, and 55-57. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. The actual reporting limit for these analytes may be higher than the reported value.

2-Hexanone (39% & 38%, 50%-116%) was UJ-coded in sample 19. This analyte was not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of this analyte in the laboratory matrix spike. The actual reporting limit for this analyte may be higher than the reported value.

Cyclohexane (64% & 60%, 72%-126%), Methylcyclohexane (63% & 59%, 72%-129%), and 1,1,2-Trichlorotrifluoroethane (66% & 62%, 70%-130%) were UJ-coded in sample 28. These analytes were not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of these analytes in the laboratory matrix spike. The actual reporting limit for these analytes may be higher than the reported value.

Bromomethane (14RPD 12PCL) was UJ-coded in sample 28. This analyte was not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to poor precision obtained for this analyte in the laboratory matrix spike and matrix spike duplicate. The actual reporting limit for this analyte may be higher than the reported value.

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Analysis/ Analyte	Units	1-__	2-__	2-FD	4-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	829	609	609	380
1 pH of Water by Field Measurement					
pH	SU	6.94	6.62	6.62	6.42
1 Temperature of Water by Field Measurement					
Temperature	Deg C	18.77	14.37	14.37	11.00
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	5.54	5.15	5.15	2.86
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	4.7	1.1	1.1	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	3.0	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	1-__	2-__	2-FD	4-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	5-__	5-FD	7-__	8-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	1240	1240	.784	567
1 pH of Water by Field Measurement					
pH	SU	7.11	7.11	6.69	6.74
1 Temperature of Water by Field Measurement					
Temperature	Deg C	19.14	19.14	19.00	18.30
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	5.50	5.50	5.20	5.94
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	16.2	16.2	0.0	92.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.1
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	5-__	5-FD	7-__	8-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	.937	.635	1.09	1070
1 pH of Water by Field Measurement					
pH	SU	6.49	7.89	6.91	7.40
1 Temperature of Water by Field Measurement					
Temperature	Deg C	16.89	13.39	10.68	14.20
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.14	2.20	8.00	7.07
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	110 J	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	500	1.0 U	1.6	20
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	513	731	777	760
1 pH of Water by Field Measurement					
pH	SU	7.55	7.75	6.90	7.65
1 Temperature of Water by Field Measurement					
Temperature	Deg C	12.56	20.29	20.68	21.41
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	11.00	8.55	8.24	8.86
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	2.5	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	200	1.3
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.8	5.8	1.5
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	771	884	454	422
1 pH of Water by Field Measurement					
pH	SU	7.09	6.80	6.26	7.60
1 Temperature of Water by Field Measurement					
Temperature	Deg C	21.08	21.00	15.62	17.17
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	0.47	0.00	6.42	1.79
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	11.9	4.9	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0	1.2	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.6	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	2.2	11	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	21-__	22-__	22-FD	24-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	512	581	581	1,180
1 pH of Water by Field Measurement					
pH	SU	5.88	7.09	7.09	7.16
1 Temperature of Water by Field Measurement					
Temperature	Deg C	18.37	18.21	18.21	14.79
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	0.00	3.90	3.90	4.44
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.2	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	78
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	5.3
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	21-__	22-__	22-FD	24-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	5.7
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	25-__	26-__	27-__	28-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	.861	887	739	868
1 pH of Water by Field Measurement					
pH	SU	6.78	7.30	7,44	7.35
1 Temperature of Water by Field Measurement					
Temperature	Deg C	16.46	25.56	25.44	25.76
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	5.61	0.57	4.22	6.01
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.4	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.8	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	25-__	26-__	27-__	28-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	29-__	29-FD	31-__	32-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	846	846		638
1 pH of Water by Field Measurement					
pH	SU	7.10	7.10		6.90
1 Temperature of Water by Field Measurement					
Temperature	Deg C	24.46	24.46		23.60
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	5.48	5.48		5.62
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0		0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	29-__	29-FD	31-__	32-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	33-__	34-__	35-__	36-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	1010	.921	655	962
1 pH of Water by Field Measurement					
pH	SU	6.88	7.07	7.03	7.34
1 Temperature of Water by Field Measurement					
Temperature	Deg C	14.07	14.28	16.20	23.94
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.77	7.80	14.57	9.82
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	12.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	43	4.7	1.0 U	690
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.5
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	33-__	34-__	35-__	36-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	37-__	38-__	38-FD	40-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	767	732	732	801
1 pH of Water by Field Measurement					
pH	SU	7.00	7.61	7.61	7.43
1 Temperature of Water by Field Measurement					
Temperature	Deg C	25.53	25.02	25.02	16.81
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.20	14.44	14.44	12.98
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	4.6	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	2200
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	14
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	37-__	38-__	38-FD	40-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	40-FD	42-__	43-__	44-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	801	720	731	849
1 pH of Water by Field Measurement					
pH	SU	7.43	7.78	8.10	7.37
1 Temperature of Water by Field Measurement					
Temperature	Deg C	16.81	17.41	18.59	17.07
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	12.98	18.31	16.70	8.00
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	10.2	87.7	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	2400	1.0 U	3.4	1100
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	14	1.0 U	1.0 U	2.7
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	40-FD	42-__	43-__	44-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	45-__	46-__	47-__	48-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	879	748	688	904
1 pH of Water by Field Measurement					
pH	SU	7.40	7.47	7.35	7.48
1 Temperature of Water by Field Measurement					
Temperature	Deg C	15.57	19.34	21.02	17.28
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	6.45	15.42	14.40	4.53
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	44	86	1.0 U	59
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	6.0
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	45-__	46-__	47-__	48-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 UJ	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

US EPA ARCHIVE DOCUMENT

Analysis/ Analyte	Units	49-__	50-__	52-__	53-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	865	741	796	731
1 pH of Water by Field Measurement					
pH	SU	7.25	7.39	6.82	7.47
1 Temperature of Water by Field Measurement					
Temperature	Deg C	15.57	15.34	18.35	17.69
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	3.06	3.78	10.36	10.35
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	3.8	37.2
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	2.7	1.0 U	340	1.6
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

US EPA ARCHIVE DOCUMENT

Analysis/ Analyte	Units	49-__	50-__	52-__	53-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 UJ
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	54-__	55-__	56-__	57-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	663	876	598	745
1 pH of Water by Field Measurement					
pH	SU	6.99	6.87	7.23	6.98
1 Temperature of Water by Field Measurement					
Temperature	Deg C	17.06	12.58	13.59	14.77
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.65	7.31	4.32	7.17
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	30.8	0.0	1.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	55
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	54-__	55-__	56-__	57-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 UJ	2.0 UJ	2.0 UJ
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	61-FB	62-FB	63-FB	64-FB
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	61-FB	62-FB	63-FB	64-FB
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

US EPA ARCHIVE DOCUMENT

United States Environmental Protection Agency
Region VII
901 N. 5th Street
Kansas City, KS 66101

Date: __/__/____

Subject: Data Disposition/Sample Release for ASR #: 5678
Project ID: BZA72Z01
Project Description: Garvey Elevator - RI/FS sampling

From: Brian Zurbuchen
SUPR/IANE

To: Kaye Dollmann
ENSV/CARB

I have received and reviewed the Transmittal of Sample Analysis Results for the above-referenced Analytical Services Request(ASR) and have indicated my findings below by checking one of the boxes for Data Disposition.

I understand all samples will be disposed upon receipt of this form, unless samples are requested to be held. If I do not return this form all samples will be disposed of on _____.

☐ "RELEASED" - Read-only to all Region 7 employees and contractors that have R7LIMS "Customer" account. All Samples may be disposed of upon receipt of this form if not requested to be held.

☐ "Project Manager Accessible" - Available on the LAN in R7LIMS for my use only. All Samples may be disposed of upon receipt of this form if not requested to be held.

☐ "Archived" - THIS DATA IS OF A SENSITIVE NATURE. Any future reports must be requested through the laboratory. All samples may be disposed of upon receipt of the form if not requested to be held.

☐ Hold Samples - I have determined that the samples need to be held until _____, after which time they will be disposed of in accordance with applicable regulations.
The reason for the hold is:

☐ Samples are associated with a legal proceeding.

☐ Question/Concern with data - possible reanalysis requested.

☐ Other:_____

US EPA ARCHIVE DOCUMENT

United States Environmental Protection Agency
Region 7
901 N. 5th Street
Kansas City, KS 66101

Date: 04/13/2012

Subject: Transmittal of Sample Analysis Results for ASR #: 5680

Project ID: BZA72Z02

Project Description: Garvey Elevator - RI/FS sampling

From: Michael F. Davis, Chief
Chemical Analysis and Response Branch, Environmental Services Division

To: Brian Zurbuchen
SUPR/IANE

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

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Project Manager: Brian Zurbuchen Org: SUPR/IANE Phone: 913-551-7101

Project ID: BZA72Z02 QAPP Number: SDMS 40322811

Project Desc: Garvey Elevator - RI/FS sampling

Location: Hastings State: Nebraska Program: Superfund

Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Purpose: Site Characterization GPRA PRC: 303DD2

Semi-annual monitoring well sampling - OU #02.

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of sample for quality control purpose.

__ = Field Sample
FB = Field Blank
FD = Field Duplicate

Units: Specific units in which results are reported.

mg/L = Milligrams per Liter
ug/L = Micrograms per Liter
NTU = Nephelometric Turbidity Units
SU = Standard Units (pH)
umhos/cm = Micromhos per Centimeter
Deg C = Degrees Celsius

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.
U = The analyte was not detected at or above the reporting limit.
UJ = The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.

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Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1	__	Water	MW-42E		03/12/2012	17:35			03/15/2012
2	__	Water	MW-42D		03/12/2012	18:35			03/15/2012
2	FD	Water	MW-42D		03/12/2012	18:35			03/15/2012
4	__	Water	MW-106D		03/13/2012	09:45			03/15/2012
5	__	Water	MW-106C		03/13/2012	10:45			03/15/2012
6	__	Water	MW-106A		03/13/2012	11:50			03/15/2012
7	__	Water	MW-104D		03/13/2012	14:05			03/15/2012
8	__	Water	MW-104C		03/13/2012	15:40			03/15/2012
9	__	Water	MW-104C		03/13/2012	16:20			03/15/2012
10	__	Water	MW-12C		03/14/2012	11:30			03/15/2012
10	FD	Water	MW-12C		03/14/2012	11:30			03/15/2012
12	__	Water	MW-14A		03/13/2012	17:50			03/15/2012
13	__	Water	MW-12D		03/14/2012	10:00			03/15/2012
14	__	Water	MW-12A		03/14/2012	10:45			03/15/2012
15	__	Water	MW-43E		03/14/2012	16:10			03/16/2012
16	__	Water	MW-43D		03/14/2012	16:50			03/16/2012
17	__	Water	MW-105D		03/16/2012	09:20			03/19/2012
17	FD	Water	MW-105D		03/16/2012	09:20			03/19/2012
19	__	Water	MW-11A		03/14/2012	18:05			03/16/2012
20	__	Water	MW-18A		03/15/2012	13:20			03/16/2012
21	__	Water	MW-18D		03/15/2012	14:25			03/16/2012
22	__	Water	MW-18C		03/15/2012	15:10			03/19/2012
23	__	Water	MW-44D		03/15/2012	17:15			03/19/2012
24	__	Water	MW-17C		03/17/2012	15:30			03/19/2012
24	FD	Water	MW-17C		03/17/2012	15:30			03/19/2012
26	__	Water	MW-44E		03/15/2012	18:05			03/19/2012
27	__	Water	MW-105C		03/16/2012	10:15			03/19/2012
28	__	Water	MW-45C		03/17/2012	17:15			03/19/2012
28	FD	Water	MW-45C		03/17/2012	17:15			03/19/2012
30	__	Water	MW-105A		03/16/2012	11:10			03/19/2012
31	__	Water	MW-41D1		03/16/2012	13:45			03/19/2012
32	__	Water	MW-41D2		03/16/2012	15:00			03/19/2012
33	__	Water	MW-46D2		03/16/2012	16:55			03/19/2012
34	__	Water	MW-46D1		03/16/2012	17:50			03/19/2012
35	__	Water	MW-16C		03/17/2012	09:20			03/19/2012
36	__	Water	MW-16A		03/17/2012	10:15			03/19/2012
37	__	Water	MW-17A		03/17/2012	12:05			03/19/2012
38	__	Water	MW-17D		03/17/2012	14:50			03/19/2012
39	__	Water	MW-45D		03/18/2012	08:55			03/19/2012
40	__	Water	Rinsate		03/18/2012	09:15			03/19/2012
41	__	Water	MW-10B		03/18/2012	10:10			03/19/2012
42	__	Water	MW-10A		03/18/2012	11:00			03/19/2012
45	FB	Water	Trip Blank sample		03/07/2012	15:47	03/14/2012	14:00	03/15/2012
46	FB	Water	Trip Blank sample		04/07/2012	15:54	04/15/2012	13:50	03/16/2012

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Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
47 - FB		Water	Trip Blank sample		03/07/2012	15:52	03/17/2012	16:30	03/19/2012

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Analysis	Comments About Results For This Analysis

1 Conductivity by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:							
	1-__	2-__	2-FD	4-__	5-__	6-__	7-__
	8-__	9-__	10-__	10-FD	12-__	13-__	14-__
	15-__	16-__	17-__	17-FD	19-__	20-__	21-__
	23-__	24-__	24-FD	26-__	27-__	28-__	28-FD
	30-__	31-__	32-__	33-__	34-__	35-__	36-__
	37-__	38-__	39-__	41-__	42-__		

Comments:
(N/A)

1 pH of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:							
	1-__	2-__	2-FD	4-__	5-__	6-__	7-__
	8-__	9-__	10-__	10-FD	12-__	13-__	14-__
	15-__	16-__	17-__	17-FD	19-__	20-__	21-__
	23-__	24-__	24-FD	26-__	27-__	28-__	28-FD
	30-__	31-__	32-__	33-__	34-__	35-__	36-__
	37-__	38-__	39-__	41-__	42-__		

Comments:
(N/A)

1 Temperature of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:							
	1-__	2-__	2-FD	4-__	5-__	6-__	7-__
	8-__	9-__	10-__	10-FD	12-__	13-__	14-__
	15-__	16-__	17-__	17-FD	19-__	20-__	21-__
	23-__	24-__	24-FD	26-__	27-__	28-__	28-FD
	30-__	31-__	32-__	33-__	34-__	35-__	36-__
	37-__	38-__	39-__	41-__	42-__		

Comments:
(N/A)

1 Total Dissolved Oxygen in Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:							
	1-__	2-__	2-FD	4-__	5-__	6-__	7-__

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Analysis	Comments About Results For This Analysis

Samples: 8-__ 9-__ 10-__ 10-FD 12-__ 13-__ 14-__
15-__ 16-__ 17-__ 17-FD 19-__ 20-__ 21-__
23-__ 24-__ 24-FD 26-__ 27-__ 28-__ 28-FD
30-__ 31-__ 32-__ 33-__ 34-__ 35-__ 36-__
37-__ 38-__ 39-__ 41-__ 42-__

Comments:
(N/A)

1 Turbidity of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 2-FD 4-__ 5-__ 6-__ 7-__
8-__ 9-__ 10-__ 10-FD 12-__ 13-__ 14-__
15-__ 16-__ 17-__ 17-FD 19-__ 20-__ 21-__
23-__ 24-__ 24-FD 26-__ 27-__ 28-__ 28-FD
30-__ 31-__ 32-__ 33-__ 34-__ 35-__ 36-__
37-__ 38-__ 39-__ 41-__ 42-__

Comments:
(N/A)

1 VOCs in Water by GC/MS for Low Detection Limits

Lab: Region 7 ESAT Contract Lab (In-House)

Method: EPA Region 7 RLAB Method 3230.13E

Samples: 1-__ 2-__ 2-FD 4-__ 5-__ 6-__ 7-__
8-__ 9-__ 10-__ 10-FD 12-__ 13-__ 14-__
15-__ 16-__ 17-__ 17-FD 19-__ 20-__ 21-__
22-__ 23-__ 24-__ 24-FD 26-__ 27-__ 28-__
28-FD 30-__ 31-__ 32-__ 33-__ 34-__ 35-__
36-__ 37-__ 38-__ 39-__ 40-__ 41-__ 42-__
45-FB 46-FB 47-FB

Comments:
Styrene (20.63%) was UJ-coded in samples 1, 2, 4-10, 12-17, 19-24, 26-28, 30-42, 45-FB, 46-FB, 47-FB, 2-FD, 10-FD, 17-FD, 24-FD, and 28-FD. This analyte was not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the initial instrument calibration curve not meeting linearity specifications. The actual reporting limit may be higher than the reported value.

Acetone (69%, 70%-130%) and 2-Hexanone (67%, 70%-130%) were UJ-coded in samples 1, 2, 4-10, 12-17, 19-24, 26-28, 30-42, 45-FB, 46-FB, 47-FB, 2-FD, 10-FD, 17-FD, 24-FD, and 28-FD. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the second source verification standard not meeting QC limits. The actual reporting limit may be higher than the reported value.

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Analysis Comments About Results For This Analysis

Acetone (+26.0%), 2-Butanone (+35.3%), 4-Methyl-2-Pentanone (+24.1%), and 2-Hexanone (+39.0%) were UJ-coded in samples 21-24, 24-FD, 26-28, 28-FD, 30-39, and 42. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. The actual reporting limit for these analytes may be higher than the reported value.

2-Hexanone (61%, 68%-127%) was UJ-coded in samples 21-24, 24-FD, 26-28, 28-FD, 30-39, and 42. This analyte was not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of this analyte in the laboratory control sample. The actual reporting limit for this analyte may be higher than the reported value.

2-Hexanone (36% & 38%, 50%-116%) and 4-Methyl-2-Pentanone (67% & 69%, 73%-124%) were UJ-coded in sample 4. These analytes were not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of these analytes in the laboratory matrix spike. The actual reporting limit for these analytes may be higher than the reported value.

Cyclohexane (63% & 65%, 72%-126%), 2-Hexanone (37% & 36%, 50%-116%), Methylcyclohexane (65% & 62%, 72%-129%), 4-Methyl-2-Pentanone (68% & 68%, 73%-124%), and 1,1,2-Trichlorotrifluoroethane (68% & 67%, 70%-130%) were UJ-coded in sample 21. These analytes were not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of these analytes in the laboratory matrix spike. The actual reporting limit for these analytes may be higher than the reported value.

2-Hexanone (36% & 36%, 50%-116%) and 4-Methyl-2-Pentanone (69% & 66%, 73%-124%) were UJ-coded in sample 32. These analytes were not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of these analytes in the laboratory matrix spike. The actual reporting limit for these analytes may be higher than the reported value.

US EPA ARCHIVE DOCUMENT

Analysis/ Analyte	Units	1-__	2-__	2-FD	4-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	453	527	527	414
1 pH of Water by Field Measurement					
pH	SU	7.13	7.00	7.00	7.02
1 Temperature of Water by Field Measurement					
Temperature	Deg C	15.25	14.72	14.72	11.61
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	6.82	5.77	5.77	3.02
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	62.8	72.0	72.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	54	38	39	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	1-__	2-__	2-FD	4-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	589	867	331	410
1 pH of Water by Field Measurement					
pH	SU	6.72	6.91	7.23	7.03
1 Temperature of Water by Field Measurement					
Temperature	Deg C	14.02	17.72	19.44	21.30
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	4.30	6.71	2.24	3.29
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	6.8
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	9-__	10-__	10-FD	12-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	825	615	615	680
1 pH of Water by Field Measurement					
pH	SU	7.16	6.94	6.94	6.71
1 Temperature of Water by Field Measurement					
Temperature	Deg C	18.90	15.41	15.41	22.17
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	5.10	5.47	5.47	3.85
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	8.5	8.8	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	9-__	10-__	10-FD	12-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	475	973	445	591
1 pH of Water by Field Measurement					
pH	SU	6.95	7.00	7.20	6.89
1 Temperature of Water by Field Measurement					
Temperature	Deg C	13.41	15.21	21.60	20.23
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	3.98	5.92	2.83	4.61
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.9	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	17-__	17-FD	19-__	20-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	480	480	508	413
1 pH of Water by Field Measurement					
pH	SU	7.09	7.09	6.67	6.43
1 Temperature of Water by Field Measurement					
Temperature	Deg C	13.16	13.16	15.11	17.47
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	4.20	4.20	4.38	5.22
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	55	57	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	17-__	17-FD	19-__	20-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	21-__	22-__	23-__	24-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	564		450	582
1 pH of Water by Field Measurement					
pH	SU	7.16		7.17	7.31
1 Temperature of Water by Field Measurement					
Temperature	Deg C	14.34		13.40	18.83
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	3.16		1.79	4.50
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0		2.8	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	28	8.7	19	28
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	21-__	22-__	23-__	24-__
4-Methyl-2-Pentanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	24-FD	26-__	27-__	28-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	582	370	713	673
1 pH of Water by Field Measurement					
pH	SU	7.31	7.32	6.90	7.45
1 Temperature of Water by Field Measurement					
Temperature	Deg C	18.83	13.98	14.71	18.89
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	4.50	2.53	5.82	6.45
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	11.9
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	29	1.0 U	120	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.1	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	24-FD	26-__	27-__	28-__
4-Methyl-2-Pentanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	28-FD	30-__	31-__	32-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	673	950	728	375
1 pH of Water by Field Measurement					
pH	SU	7.45	7.06	6.96	7.18
1 Temperature of Water by Field Measurement					
Temperature	Deg C	18.89	14.75	19.43	17.76
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	6.45	6.43	5.59	3.27
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	11.9	0.0	0.0	51.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	28-FD	30-__	31-__	32-__
4-Methyl-2-Pentanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	33-__	34-__	35-__	36-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	614	625	831	975
1 pH of Water by Field Measurement					
pH	SU	7.13	6.93	7.06	6.99
1 Temperature of Water by Field Measurement					
Temperature	Deg C	19.14	18.83	13.09	14.40
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	4.54	5.06	6.47	6.37
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	11.8	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	280	530	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.4	2.5	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	33-__	34-__	35-__	36-__
4-Methyl-2-Pentanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	37-__	38-__	39-__	40-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	916	309	610	
1 pH of Water by Field Measurement					
pH	SU	7.33	7.54	7.39	
1 Temperature of Water by Field Measurement					
Temperature	Deg C	14.59	16.69	13.92	
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	6.10	2.99	8.15	
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	37-__	38-__	39-__	40-__
4-Methyl-2-Pentanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	41-__	42-__	45-FB	46-FB
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	844	928		
1 pH of Water by Field Measurement					
pH	SU	7.35	7.37		
1 Temperature of Water by Field Measurement					
Temperature	Deg C	14.48	15.12		
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	6.80	6.80		
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0		
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 UJ	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	41-__	42-__	45-FB	46-FB
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 UJ	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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Analysis/ Analyte	Units	47-FB
1 VOCs in Water by GC/MS for Low Detection Limits		
Acetone	ug/L	5.0 UJ
Benzene	ug/L	1.0 U
Bromodichloromethane	ug/L	1.0 U
Bromoform	ug/L	1.0 U
Bromomethane	ug/L	1.0 U
2-Butanone	ug/L	5.0 U
Carbon Disulfide	ug/L	1.0 U
Carbon Tetrachloride	ug/L	1.0 U
Chlorobenzene	ug/L	1.0 U
Chloroethane	ug/L	1.0 U
Chloroform	ug/L	1.0 U
Chloromethane	ug/L	1.0 U
Cyclohexane	ug/L	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U
Dibromochloromethane	ug/L	1.0 U
1,2-Dibromoethane	ug/L	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U
1,1-Dichloroethane	ug/L	1.0 U
1,2-Dichloroethane	ug/L	1.0 U
1,1-Dichloroethene	ug/L	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U
1,2-Dichloropropane	ug/L	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U
Ethyl Benzene	ug/L	1.0 U
2-Hexanone	ug/L	5.0 UJ
Isopropylbenzene	ug/L	1.0 U
Methyl Acetate	ug/L	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U
Methylcyclohexane	ug/L	1.0 U
Methylene Chloride	ug/L	1.0 U
4-Methyl-2-Pentanone	ug/L	5.0 U
Naphthalene	ug/L	2.0 U
Styrene	ug/L	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/L	1.0 U
Tetrachloroethene	ug/L	1.0 U
Toluene	ug/L	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U

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Analysis/ Analyte	Units	47-FB
Trichloroethene	ug/L	1.0 U
Trichlorofluoromethane	ug/L	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U
Vinyl Chloride	ug/L	1.0 U
m and/or p-Xylene	ug/L	2.0 U
o-Xylene	ug/L	1.0 U

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United States Environmental Protection Agency
Region VII
901 N. 5th Street
Kansas City, KS 66101

Date: __/__/____

Subject: Data Disposition/Sample Release for ASR #: 5680
Project ID: BZA72Z02
Project Description: Garvey Elevator - RI/FS sampling

From: Brian Zurbuchen
SUPR/IANE

To: Kaye Dollmann
ENSV/CARB

I have received and reviewed the Transmittal of Sample Analysis Results for the above-referenced Analytical Services Request(ASR) and have indicated my findings below by checking one of the boxes for Data Disposition.

I understand all samples will be disposed upon receipt of this form, unless samples are requested to be held. If I do not return this form all samples will be disposed of on _____.

☐ "RELEASED" - Read-only to all Region 7 employees and contractors that have R7LIMS "Customer" account. All Samples may be disposed of upon receipt of this form if not requested to be held.

☐ "Project Manager Accessible" - Available on the LAN in R7LIMS for my use only. All Samples may be disposed of upon receipt of this form if not requested to be held.

☐ "Archived" - THIS DATA IS OF A SENSITIVE NATURE. Any future reports must be requested through the laboratory. All samples may be disposed of upon receipt of the form if not requested to be held.

☐ Hold Samples - I have determined that the samples need to be held until _____, after which time they will be disposed of in accordance with applicable regulations.
The reason for the hold is:

☐ Samples are associated with a legal proceeding.

☐ Question/Concern with data - possible reanalysis requested.

☐ Other:_____

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