



Groundwater Monitoring Report for the Former SWL&P Manufactured Gas Plant Superior, Wisconsin

WDNR BRRTs # 02-16-275446

Prepared for:

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Draft

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1.0 Introduction

This report presents the results of groundwater monitoring completed in 2013 and 2014 at the Superior Water Light & Power (SWL&P) Former Manufactured Gas Plant (MGP), located at the intersection of Winter Street and East 1st Street in Superior, Wisconsin. The site location is shown in **Figure 1**.

This report also contains an expanded discussion of site hydrogeological characteristics which serves as a basis for planning final remedial activities that are anticipated to be required in order to obtain site closure from Wisconsin Department of Natural Resources (WDNR). Two new cross sections are included to help visualize the position of tarry material in the subsurface in relation to sediments in the adjacent boat slip.

The groundwater monitoring was conducted in accordance with the methodologies outlined in the Site Investigation Work Plan submitted to WDNR in November 2001. Groundwater samples were collected from nine monitoring wells in May 2013 and from 19 of the 20 site wells in December 2014. Also, water level measurements have been collected continuously in four monitoring wells using pressure transducers. The water level data are used to depict groundwater elevation contours, groundwater flow direction, and a comparison with water levels in Superior Bay.

2.0 Groundwater Monitoring Methodology

2.1 Monitoring Well Gauging

Groundwater level measurements were collected from all the wells using an electric tape. No light or dense non-aqueous phase liquids (NAPL) have ever been detected in any of the wells. The water level measurements were made from a surveyed measuring point established on the north side of the top of the PVC well casing.

Since August 2012, INW-brand transducers installed in wells MW-10, MW-11, MW-15 and MW-20 have recorded the water level in the wells every 15 minutes. These data were most recently downloaded on October 27, 2014 and are included in this report. The transducers were re-programmed at the time of downloading and continue to collect water level data every 15 minutes. Corresponding data for the elevation of the surface of Lake Superior was obtained from the National Oceanic and Atmospheric Administration at: <http://tidesandcurrents.noaa.gov/geo.shtml?location=9099064>. Also, the City of Superior waste water treatment plant (WWTP) provided automated water elevation data from the transducer installed in the pond (CSO #2 Treatment Lagoon) adjacent to the Graymont boat slip.

2.2 Groundwater Sampling

A total of 22 groundwater monitoring wells were installed at the site during multiple phases of site investigations from 2001 to 2005. Two wells (MW-18 and MW-19) were abandoned in 2010 due to damage concerns. Of the remaining 20 wells, MW-3 has been damaged by vehicular traffic. The riser pipe and protective casing in MW-3 were bent and the well cap was missing. Well MW-6 has sustained some damage to the protective posts around the well, but there is no damage to the well itself. Wells MW-10, MW-12, MW-15, and MW-20 are flush-mounted wells due to their proximity to vehicular traffic. The other wells at the site stick up approximately 2.5 to 3 feet above the ground surface.

Groundwater samples were collected from the following nine monitoring wells on May 16 and 17, 2013: MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-15, MW-20, and MW-22. This subset of wells was selected for sampling because they were judged to be the most likely to show water quality changes due to the remediation activities that took place in December 2008 and these wells have been sampled the most frequently since that time. The December 2014 sampling event was intended to include all 20 wells at the site. However, cold weather in December 2014 resulted in frost build-up inside the riser pipe of well MW-3 and due to the ice blockage MW-3 could not be accessed by a pump, or a water level tape. Well MW-3 was provided with a new well cap in December 2014.

Groundwater samples were collected in general accordance with the WDNR "Groundwater Sampling Field Manual," September 1996. Groundwater samples were collected using a low-flow sampling technique by which pumping rates are adjusted to minimize drawdown in each well. Each monitoring well was purged using a peristaltic pump and dedicated new tubing until groundwater water quality parameters stabilized. Water quality measurements, including pH, specific conductivity, temperature, turbidity, oxidation-reduction potential, and dissolved oxygen were measured with a Horiba U-52 water quality meter equipped with a flow-through cell. The stabilized water quality measurements and other sampling information were recorded on the Groundwater Sample Collection Records included

as **Appendix A**. After water quality readings stabilized, samples were collected from each well using the peristaltic pump and placed directly into laboratory-supplied containers. The samples were stored on ice in coolers and were delivered under chain-of-custody to Pace Analytical in Minneapolis, Minnesota. The samples were submitted for analysis of volatile organic compounds (VOC) by EPA method 8260b and polyaromatic hydrocarbons (PAH) by EPA method 8270 SIM. A sample duplicate and a trip blank (for VOC analysis only) were collected for each sampling round. The laboratory analytical reports are provided in **Appendix B**.

2.3 Decontamination Procedures

The water level meter and the Horiba U-52 water quality meter with the flow-through cell were decontaminated prior to each use with a detergent wash followed by a potable water rinse. All other equipment and supplies that may have contacted the groundwater samples were disposable and used only on one well. Therefore, no other decontamination was necessary.

3.0 Results

3.1 Geological Interpretation

The MGP Site is located at an elevation between 610 and 615 feet above mean sea level. The topography of the former MGP is relatively flat with little or no slope. To the northeast of the former MGP, the surface topography slopes down towards the railroad tracks. The land surface between the railroad tracks and Superior Bay is relatively flat with most elevations between 605 and 607 feet above mean sea level. The water elevation in Superior Bay is approximately 601 feet above mean sea level.

Aerial photographs and historic maps of the City of Superior, obtained during the Phase I, indicate the former Lake Superior shoreline was originally located approximately 50 to 75 feet northeast of the MGP building. Water was present between the former shoreline and the railroad tracks which were built on a trestle and/or embankment in Superior Bay. By 1905 the area between the former shoreline and the railroad tracks had been filled, and no water was present. Various shoreline development and filling activities continued between 1905 and 1978; notably the construction of the City of Superior WWTP. The 1978 aerial photo depicts the shoreline area in its current configuration.

The results of the subsurface investigations indicate that there are several soil types encountered in the area:

- Reddish-brown high-plasticity clay;
- Sand and silty sand;
- Fill material consisting primarily of light gray to dark gray lime-like material; and
- Miscellaneous fill, such as bricks, wood, slag, and cinders.

Groundwater was encountered in the lime-like material, miscellaneous fill, and sand, above the clay unit, approximately 3 to 13-feet below the ground surface. These units comprise the water table aquifer which has been the focus of groundwater monitoring at the site. The clay does contain water, but the hydraulic conductivity is estimated to be less than 10^{-6} cm/sec, thus water does not readily move through the clay. **Figure 2** presents elevation contours for the top of the clay derived from all the borings at the site, including the deeper sediment borings that penetrated the clay. The geologic data were interpolated using the ArcGIS "Natural Neighbor" tool. The clay surface slopes towards Superior Bay and forms a confining layer beneath the water table aquifer that is comprised of a wedge of fill materials that were placed along the original Superior Bay shoreline.

Figure 3 shows a hydrogeologic cross section roughly perpendicular to the original Superior Bay shoreline and **Figure 4** is parallel to the shoreline. The locations of the sections are shown on the map in **Figure 2**. The cross sections were derived from the accumulated data and information from soil borings, wells, and the Laser Induced Fluorescence (LIF) borings. They show the general positions of contamination relative to fill and clay. Some data were transposed onto the line of the cross sections from up to approximately 50 feet away and the topography of the clay surface results in some of the contamination to be shown below the clay surface (see the location of borings B-11 and B-12 on

Figure 4). In fact, during the various site investigative activities it was observed that visible contamination was predominantly within the fill except in limited amounts in and around the foundations of the gas holders which were built on portions of the site where the clay was essentially right at the ground surface. **Figure 4** also indicates the approximate outline of the remedial soil excavation that took place in the heart of the source area in December 2008.

3.2 Water Elevation measurements

The May 2013 and December 2014 groundwater elevations are summarized in **Table 1**. The groundwater elevations and contours are illustrated on **Figure 5** (May 2013) and **Figure 6** (December 2014). Elevations of Lake Superior and the City of Superior WWTP pond were also used for this interpretation. The surface water elevations were assigned to points along the respective shorelines and the data for those points were combined with groundwater elevation data and interpolated in ESRI ArcGIS software implementing the “Topo to Raster” tool.

The groundwater elevation contours shown in **Figure 5** and **Figure 6** confirm the same general pattern of groundwater flow that has been evident in all of the monitoring events conducted at the site since investigations began in 2001. The inclusion of the pond elevation in **Figures 5** and **6** shows that groundwater may flow into the pond from a portion of the site, depending on operational conditions at the pond. The groundwater elevations are highest in the portion of the site farthest from the lake where a thin layer of topsoil overlies native red clay soil. However, it is somewhat misleading to view the contours as a continuous surface that depicts groundwater flow. In fact, wells screened in the clay (i.e., MW-1, MW-2, MW-3, MW-4, MW-13, and MW-14) are quickly purged during sampling and are not hydraulically connected to the water table aquifer. **Figures 5** and **6** show the contact line where the groundwater surface intersects the top of the clay surface. That line marks the boundary of the water table aquifer.

The groundwater elevation data reflect a steeper hydraulic gradient in the clay compared to the hydraulic gradient closer to the shoreline in wells that are screened in fill materials that are more permeable than the red clay. For example, the hydraulic gradient between wells MW-4 and MW-7 in December 2014 was approximately 0.035 feet per foot and the hydraulic gradient between wells MW-7 and MW-20 in December 2014 was approximately 0.002. The hydraulic gradients between the same pairs of wells, respectively, in May 2013 were 0.028 and 0.007. The seasonal differences in the hydraulic gradient are discussed further in Section 3.4.

3.3 Hydrologic Calculations

It is possible to estimate the amount of groundwater flow through the site using the formula $Q=KiA$, where Q is the discharge or amount of water flowing through the aquifer, K is the hydraulic conductivity of the aquifer, i is the hydraulic gradient, and A is a cross-sectional area perpendicular to the flow direction.

The average hydraulic conductivity using the values shown in Table 1 for wells MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-15, and MW-20 is 5.9×10^{-3} cm/s or 132 gallons per day per square foot. Using the May 2013 hydraulic gradient from MW-7 to MW-20 (0.007) and an aquifer thickness of 14 feet, gives an estimated groundwater flow volume of approximately one gallon per minute for each 100 feet of width perpendicular to flow.

Example boundaries represented by a 500-foot wide area are shown on **Figure 5**. The boundaries in Figure 5 include most of the area where soil and groundwater PAH and VOC concentrations are highest, but do not necessarily bound all contamination. The specific hydrogeologic conditions at the site result in an estimated groundwater flow of 5 gpm through the 500-foot wide area.

3.4 Transducer Data

More detailed information about the shoreline area water levels is given by the transducer and NOAA data. **Appendix C** contains a number of data plots that compare the elevations of groundwater, Superior Bay and the WWTP pond. A graph of precipitation during the same time period is also provided to help explain some of the water elevation fluctuations. Superior Bay water elevations in the boat slip adjacent to the MGP site are influenced by the lake-wide seiche. The NOAA gaging station is located nearby in Duluth, MN where it represents water elevations throughout the St. Louis River estuary.

Figures C-1 through **C-4** in **Appendix C** are hydrographs of the Lake Superior water elevation plotted with the groundwater elevations at wells MW-10, MW-11, MW-15, and MW-20 for the period from August 2012 to October 2014. Generally the hydrographs show a close correlation between the elevation changes in the lake and water levels in the wells. During summer months, groundwater elevations were higher than Lake Superior by one to two feet or more. During the winter, when recharge was likely zero, the groundwater was generally within a half a foot of the elevation of the lake. A good example of the seasonal difference is depicted in **Figure C-2** which compares water elevations in MW-11 and the lake.

Figure C-5 shows a closer detail of the relationships between the water elevations in wells and the lake over a two-day period in October 2014. The water elevation in well MW-10 was lower than all the other water levels, and being furthest from the lake, well MW-10 reacted the least to seiche-driven water level changes in the lake. The water elevations in wells MW-11, MW-15, and MW-20 showed similar rapid fluctuations as the lake, but the groundwater changes lagged behind the seiche-driven changes by several hours.

The City of Superior's WWTP pond is an unlined pond built in the 1970s to address combined sewer overflows during precipitation events. A recent inquiry determined that the pond is equipped with a water level transducer to record the pond elevations each minute. The hydrograph for the pond over the same time period for which groundwater data are available is shown along with the Lake Superior hydrograph in **Figure C-6**. It can be seen that the pond water elevations fluctuated rapidly, especially when precipitation was high. Apparently the WWTP operators pump water out below the level of Lake Superior on a routine basis. **Figure C-6** shows that for most of the time from April to October 2014, the water elevations in the pond were below Lake Superior and groundwater elevations. During this time, it may be concluded that water infiltrated into the pond from the lake and from groundwater.

More details of the interaction between groundwater and the WWTP pond are shown in **Figure C-7**. **Figure C-7** shows that the water level at well MW-15, which is the closest monitoring well to the pond, is strongly influenced by the pond level; reacting quickly to the filling and pumping that dictates the pond level. This relationship establishes the connection between the pond water and groundwater.

3.5 Groundwater Sampling Results

Groundwater samples from the 2013 and 2014 sampling events were submitted to Pace Analytical for PAH and VOC laboratory analysis. The complete laboratory analytical reports are included in

Appendix B. Table 2 provides a summary of the groundwater analytical results for VOC and PAH for all site wells (results from 2002 to December 2014). The groundwater results were compared to the applicable WDNR groundwater standards (NR 140, Table 1 Enforcement Standards).

Review of the recent analytical results compared to prior years indicate that the same VOC and PAH compounds exceeded the WDNR groundwater standards in one or more wells, and included the following:

Benzene	Benzo(a)pyrene
Naphthalene	Ethylbenzene
Styrene	Benzo(b)fluoranthene
Toluene	Chrysene
1,2,4-Trimethylbenzene	Xylene

Benzene was the VOC which most commonly exceeded the applicable WDNR groundwater standard (the benzene standard is 5 micrograms per liter (ug/L)). The August 2013 and December 2014 benzene results and the estimated extent of benzene concentrations greater than 5 ug/l are illustrated on **Figures 7** and **9**, respectively. The wells with the highest benzene concentrations also tended to have the highest concentrations of other VOCs. Thus, benzene is a good indicator of the general magnitude and extent of the VOC plume. The benzene plume has not changed, based on the recent data, although the benzene concentration in the sample from well MW-4 was higher in 2014 than in prior years.

The PAH results and estimated extent of PAH concentrations that exceeded the WDNR groundwater standards from the August 2013 and December 2014 sampling events are illustrated on **Figures 8** and **10**, respectively. The PAH data can be less consistent than the VOC data between sampling events. This may be due to their partitioning to particulate matter and the variable turbidity between events. An example of this is well MW-9 in 2013 and 2014. The turbidity measured in the field at the time of sampling was twice as high in 2013 (**Appendix A**), and most individual PAH concentrations were higher as well (**Table 2**).

Graphs of the concentration results of Benzene and Naphthalene for each well over time are illustrated in **Appendix D**, compared with the WDNR groundwater enforcement standards.

3.6 Discussion of Results

The extent of VOCs in groundwater has been delineated to the applicable WDNR groundwater standards as illustrated on **Figures 7** and **9**. Benzene is the most frequently detected VOC and has the greatest magnitude and extent. The VOC plume is located at the source area near the former MGP building and downgradient to the Superior Bay boat slip. Benzene exceeding the 5 ug/l enforcement standard is also found in samples from wells MW-3 (not sampled since 2011) and MW-4. Those two wells appear to be “hot spots” that are not connected to each other or to the larger VOC plume downgradient from the former MGP building. The isolation of these two hot spots was confirmed by investigations that included soil sampling and analysis and the use of the membrane interface probe during the Phase II, Part IV study. The extent of the benzene plume, as shown by the

limit of the 5 ug/l contour on **Figures 7 and 9**, is well defined and does not appear to change from year to year.

The extent of dissolved PAH in groundwater was delineated to the applicable WDNR groundwater standards as illustrated on **Figures 8 and 10**. The dissolved PAH plume appears to extend from the former MGP wastewater discharge area (the area excavated in December 2008) downgradient to the east. The dissolved PAH plume is stable and has a more limited extent than the VOC plume.

The majority of VOC impacts are found in the same general location as the PAH impacts, except that the VOC impacts are greater in aerial extent.

3.7 Quality Assurance and Quality Control Samples

Quality assurance and quality control (QA/QC) samples were collected to help confirm that accurate and reliable data was obtained for this investigation. The laboratory conducted standard QA/QC procedures. In addition, one field duplicate was collected during each sampling event (MW-22 in 2013 and MW-5 in 2014) and was analyzed for VOC and PAH. A trip blank accompanied each sample shipment and was analyzed for VOC. No VOCs were detected in the trip blanks. The complete results for QA/QC samples can be found in the laboratory analytical reports.

4.0 Summary and Conclusion

Groundwater movement at the site is predominantly through the fill materials where the hydraulic gradient is smallest. An estimate of the amount of water that moves across the site is given below. Evidence of the lack of appreciable movement of groundwater in the red clay is given by the slow recharge in the “clay” wells listed above (it took several months after drilling for these wells to fill with water to enable initial sampling). Also, despite the elevated VOC concentrations in samples from wells MW-3 and MW-4, the lack of impacts in nearby samples shows that even relatively soluble chemicals have not migrated in the many years since the MGP operated.

New information regarding the water elevation in the City of Superior's WWTP pond suggests that a portion of the groundwater discharge from the site may infiltrate into the pond. The aeration, retention, and dilution offered by the pond may effectively reduce any VOC concentrations contributed to the pond by groundwater infiltration. The transducer data for the monitoring wells, when compared to the level of Lake Superior, suggests that the lack of recharge during winter months reduces the hydraulic gradient in the vicinity of the shoreline. Most groundwater movement at the site is likely driven by recharge that takes place when the ground is not frozen. The recharge area to the aquifer is limited to areas where fill comprises the subsurface. No recharge takes place over the portion of the site where native clay is essentially at grade (see **Figure 3** for a cross-sectional view and **Figures 5** and **6** for a plan view that shows the limit of the fill aquifer).

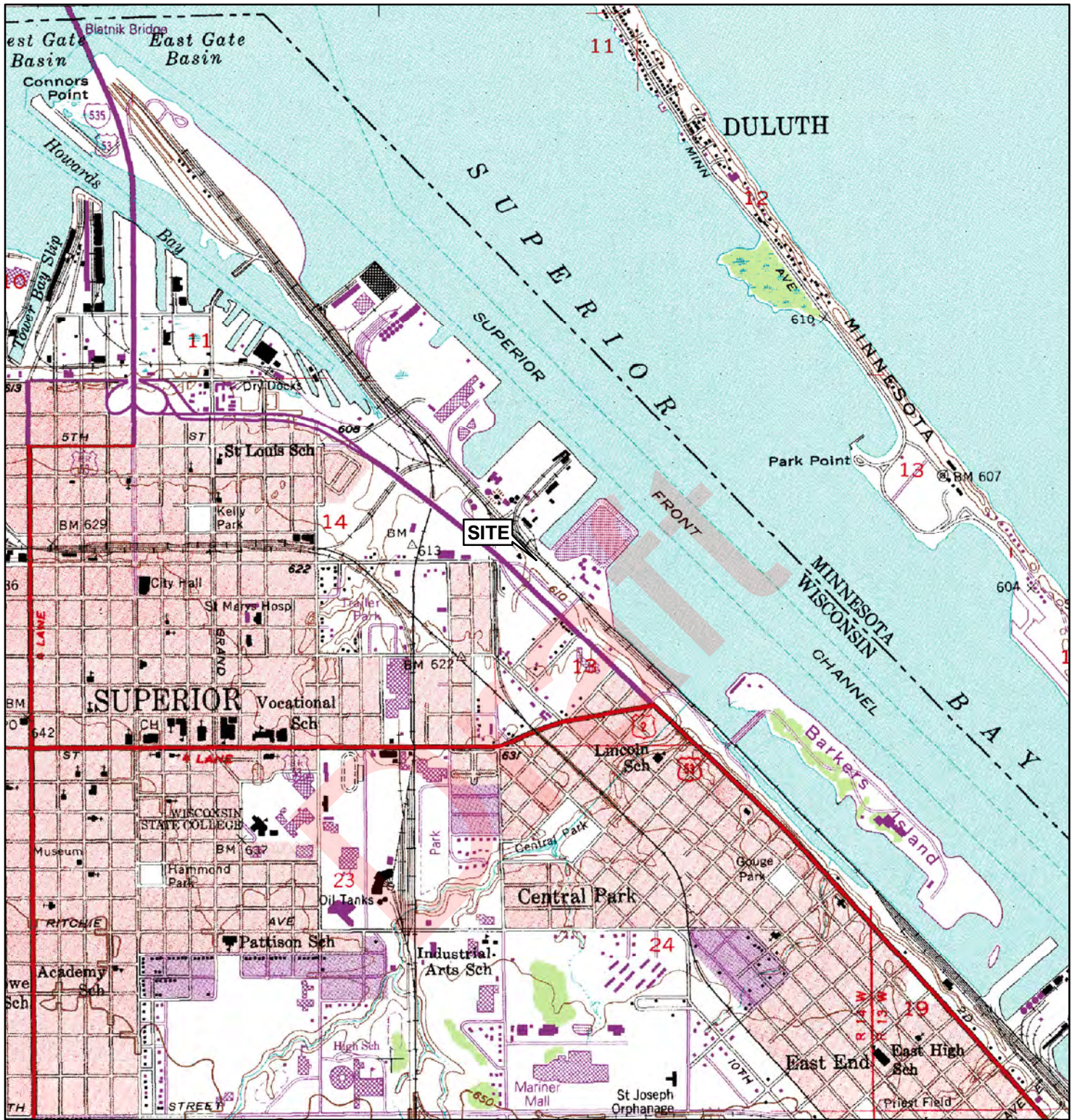
The extent of VOC and PAH in the groundwater has been delineated and the extent has remained nearly stable since sampling commenced in 2002. This result is expected given the long period of time that has elapsed since the MGP ceased operations in 1904. The sources of groundwater contamination from the MGP were present prior to some of the filling activities that created the present shoreline. Thus the VOC and PAH have migrated to their present positions and the resulting contaminant plumes are limited by natural attenuation processes such as diffusion, dispersion, degradation and retardation. The groundwater VOC and PAH plumes appear to originate near the former MGP building near the area remediated in December 2008 and extend downgradient with the groundwater flow direction and along the former Superior Bay shoreline (along the railroad tracks). There are also localized areas of VOC in groundwater around wells MW-3 and MW-4 that do not appear to have migrated or changed concentrations since monitoring began in 2002.

The cross sections show the positions of tarry materials and other potential sources of groundwater contamination relative to the fill, native clay soils, and the shoreline of Superior Bay at the boat slip. Most of the tarry MGP waste is residual material sorbed to sediment and fill that was probably once located on the original (1889 to 1904) Superior Bay shoreline. Site investigations have not found evidence of mobile tar. For example, at well MW-9 tarry soils were identified in the fill above the clay, but not at the clay surface. No accumulations of tar have been found on the clay surface “downstream” of the MGP source area.

The VOC detected most frequently and with the highest concentrations in the groundwater was benzene. Naphthalene was the most frequently detected and highest concentration PAH compound detected in the groundwater samples. The VOC and PAH plumes are comingled and are located in the same general area, except the VOC plume is greater in extent.

Figures

Draft



Map adapted from USGS 7.5 minute topographic map(s): Superior, WI.

Legend

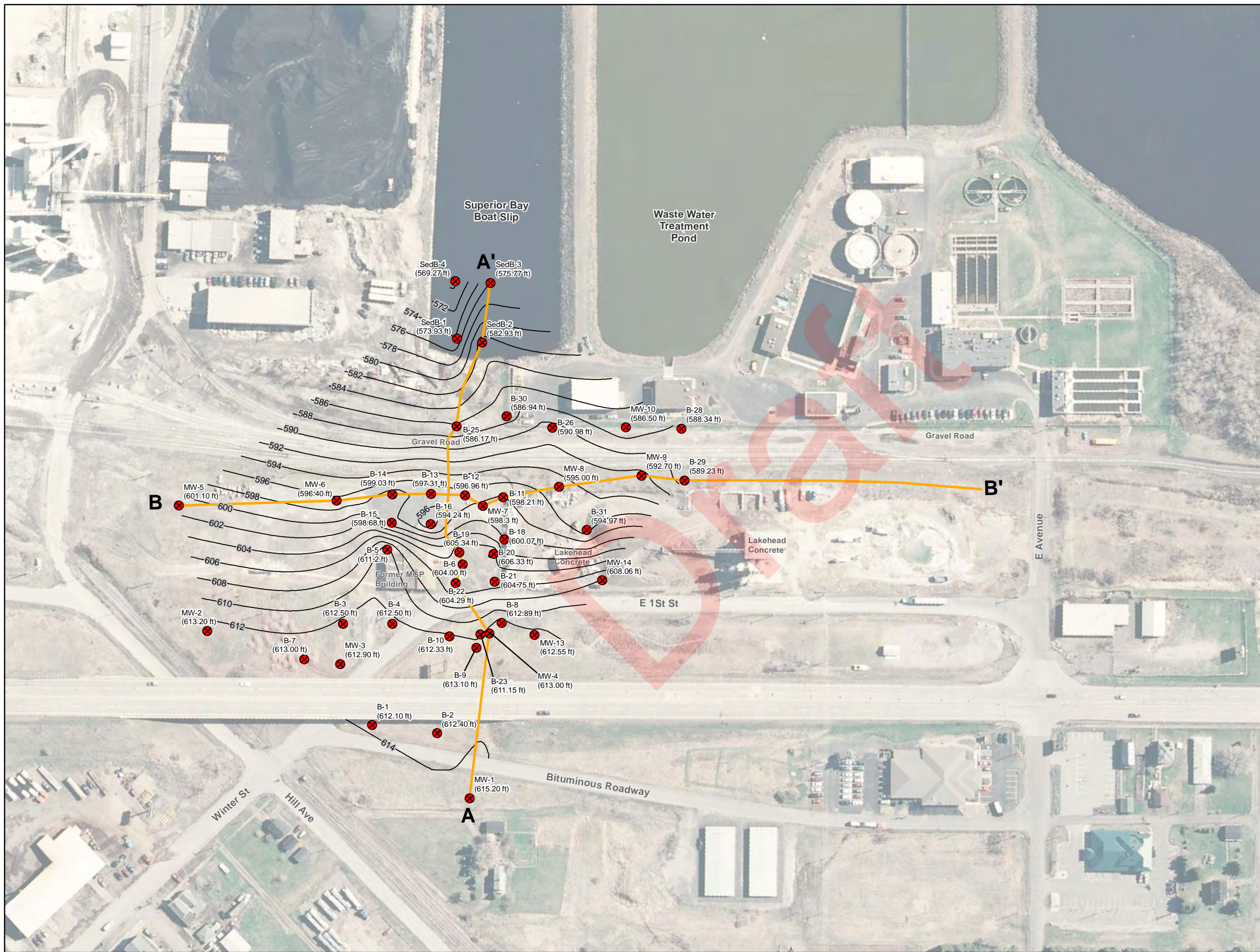
Site Location

0 2,000 Feet
1 inch = 2,000 feet

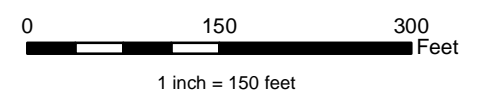
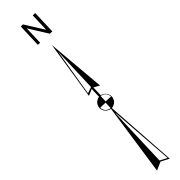
GENERAL SITE LOCATION MAP
 Superior Water Light & Power MGP
 Superior, Wisconsin

Figure 1

File: Fig1_GenSiteLoc
 Summit Proj. No.: 2118-0001
 Plot Date: 01-07-13
 Arc Operator: PRB
 Reviewed by: BMG



- ### Explanation
- Well or Boring with Top of Clay Elevation in Feet Above Mean Sea Level
 - Top of Native Clay Elevation Contour Lines C.I. = 2 feet
 - Cross-Section Transect



Top of Clay Elevation Map
 Superior Water Light & Power MGP
 Superior, Wisconsin

Figure 2

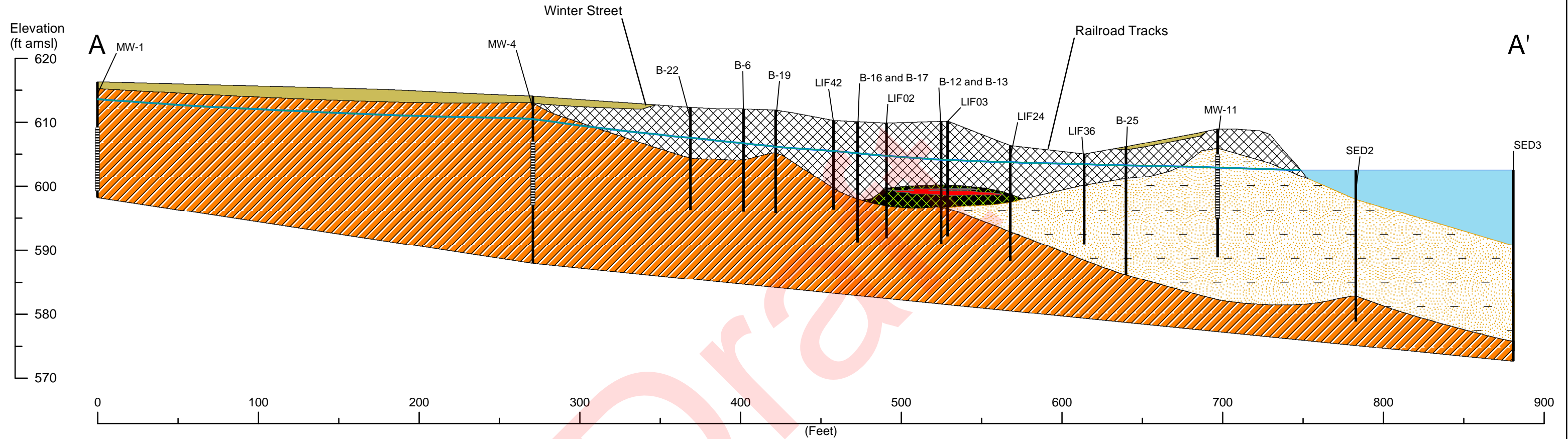
File: Fig2_TopOfClay
 Summit Proj. No.: 2118-0001
 Plot Date: 02-18-2015
 Arc Operator: RLA
 Reviewed by: WMG



Map adapted from LMIC WMS:2009 Northeast Minnesota, 50-cm Resolution, Digital Orthorectified Images, Duluth (DNR)

NW

SE



1 inch = 60 feet
Vertical Exaggeration = 4X

Explanation

- Topsoil
- Clay
- Mixed Fill
- Lake Superior
- Silty Sand
- LIF Reflectance >100%
- Tarry Fill
- Boring
- Monitoring Well Screen
- Water Table (Dec 2014)

Mixed Fill: May include "lime like material," wood, cinders, bricks, clay, gravel, coal slag, peat, and/or other debris

Tarry Fill: Similar to "Mixed Fill", with the addition of tar-like material

Elevations are based on survey data provided by Salo Engineering, Inc., Duluth, Minnesota

Note: Cross-section is presented as a generalized interpretation of the subsurface based on limited information. Some borings have been projected to the transect. See Figure 2 for the transect line.

Figure 3



CROSS-SECTION: A to A'
Superior Water, Light, and Power
MGP Site
Superior, Wisconsin

File: Fig3_Xsec_AA
Summit Proj. No.: 2118-0001
Plot Date: 3/2/2015
Arc Operator: RLA
Reviewed by: WMG

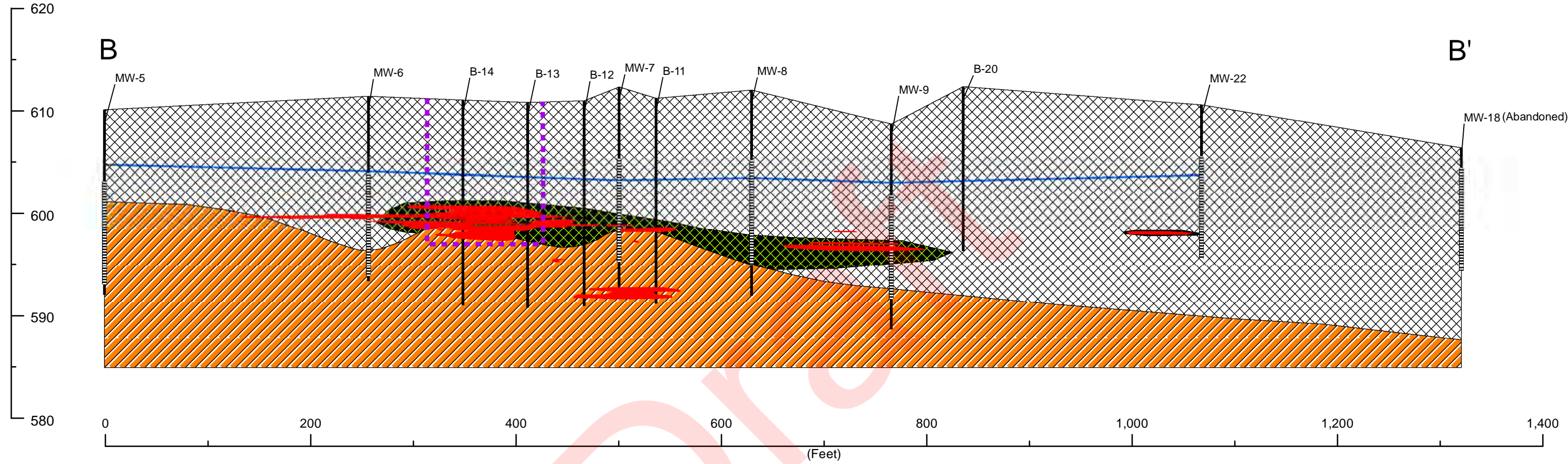
NW



SE



Elevation
(ft amsl)



1 inch = 100 feet
Vertical Exaggeration = 10X

Explanation

- Mixed Fill
- Tarry Fill
- Clay
- LIF Reflectance >100%
- Boring
- Monitoring Well Screen
- Water Table (Dec 2014)
- Approximate Extent of Remedial Excavation

Mixed Fill: May include "lime like material," wood, cinders, bricks, clay, gravel, coal slag, peat, and/or other debris

Tarry Fill: Similar to "Mixed Fill", with the addition of tar-like material

Elevations are based on survey data provided by Salo Engineering, Inc., Duluth, Minnesota

Note: Cross-section is presented as a generalized interpretation of the subsurface based on limited information. LIF Reflectance information has been projected to the transect from LIF cross-sections B-B', C-C', and D-D'. See Figure 2 for transect locations.

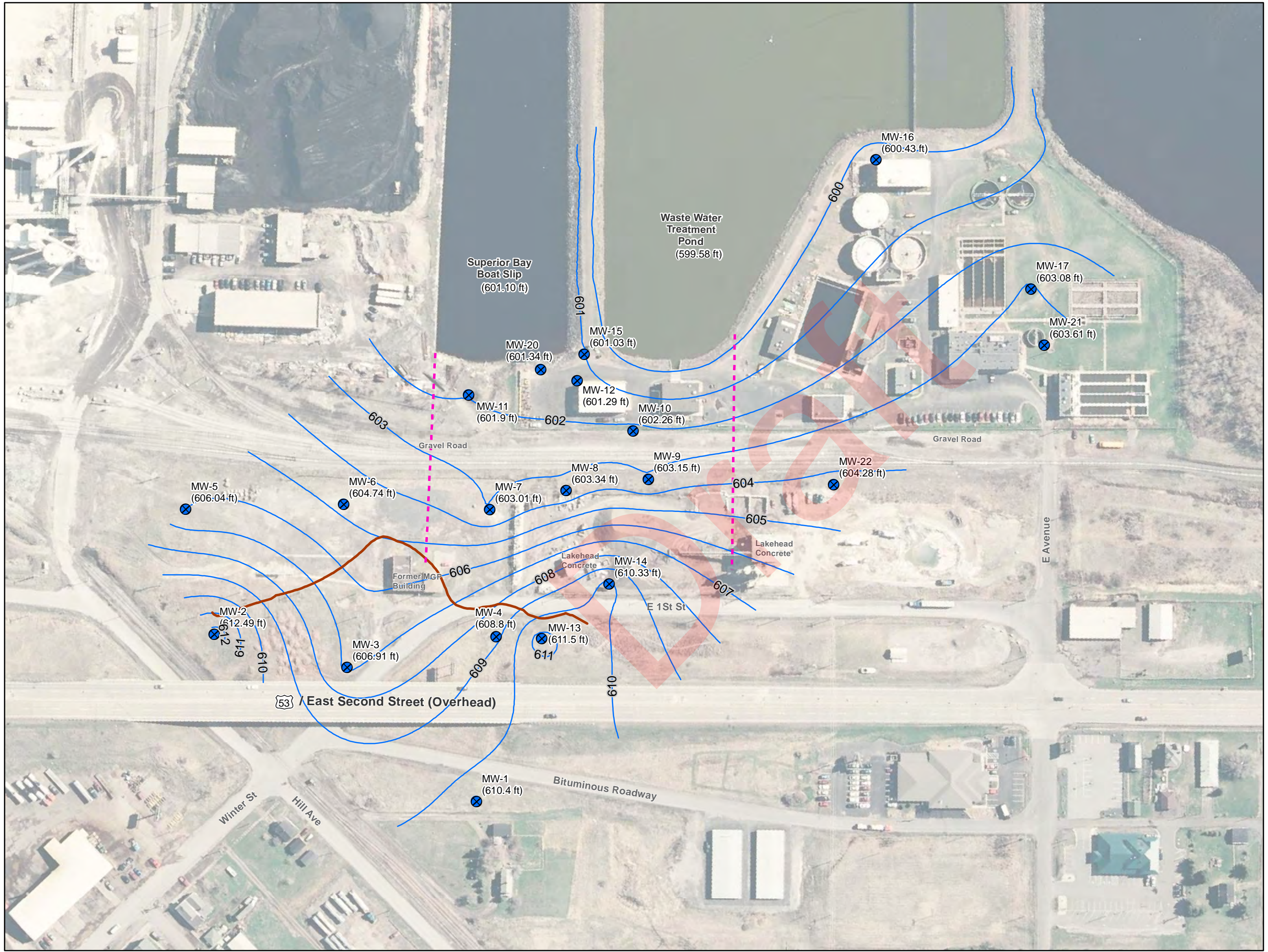
Figure 4



CROSS-SECTION: B to B'

Superior Water, Light, and Power
MGP Site
Superior, Wisconsin

File: Fig4_Xsec_BB
Summit Proj. No.: 2118-0001
Plot Date: 2/26/2015
Arc Operator: RLA
Reviewed by: WMG



Explanation

- ⊕ Monitoring Well With Groundwater Elevation (5/16/2013) in Feet Above Mean Sea Level
- Groundwater Elevation Contour Lines (5/16/13) C.I. = 1 foot
- Intersection of water table with native clay
- - - Boundary of Groundwater Flow Calculations (see Section 3.3 in report for explanation)

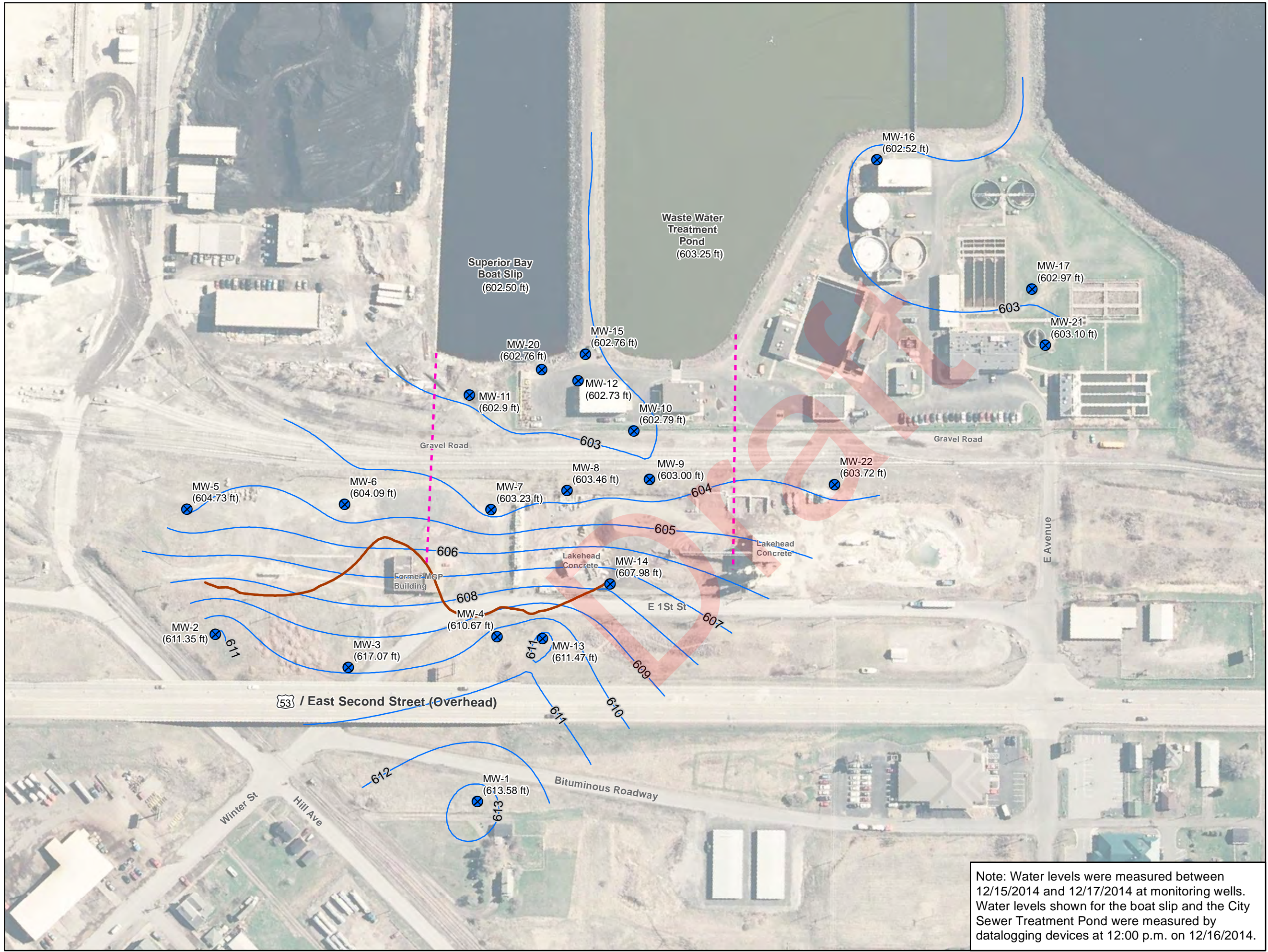
Groundwater Elevation Map
(May 2013)
Superior Water Light & Power MGP
Superior, Wisconsin

Figure 5

File: Fig5_May2013_GWContours
Summit Proj. No.: 2118-0001
Plot Date: 02-17-2015
Arc Operator: RLA
Reviewed by: WMG



Map adapted from LMIC WMS:2009 Northeast Minnesota, 50-cm Resolution, Digital Orthorectified Images, Duluth (DNR)



Explanation

- Monitoring Well With Groundwater Elevation (12/2014) in Feet Above Mean Sea Level
- Groundwater Elevation Contour Lines (12/2014) C.I. = 1 foot
- Intersection of water table with native clay
- Boundary of Groundwater Flow Calculations (see Section 3.3 in report for explanation)

1 inch = 150 feet

Groundwater Elevation Map (December 2014)
Superior Water Light & Power MGP
Superior, Wisconsin

Figure 6

File: Fig6_Dec2014_GWContours
Summit Proj. No.: 2118-0001
Plot Date: 02-17-2015
Arc Operator: RLA
Reviewed by: WMG

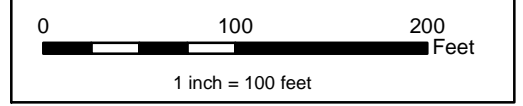
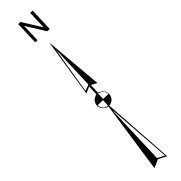
Note: Water levels were measured between 12/15/2014 and 12/17/2014 at monitoring wells. Water levels shown for the boat slip and the City Sewer Treatment Pond were measured by datalogging devices at 12:00 p.m. on 12/16/2014.

Map adapted from LMIC WMS:2009 Northeast Minnesota, 50-cm Resolution, Digital Orthorectified Images, Duluth (DNR)



Explanation

- Monitoring Well with Benzene Concentration in Groundwater
- Interpreted Benzene Isoconcentration Line



Estimated Extent of Benzene in Groundwater (May 2013)
 Superior Water Light & Power MGP
 Superior, Wisconsin

Figure 7

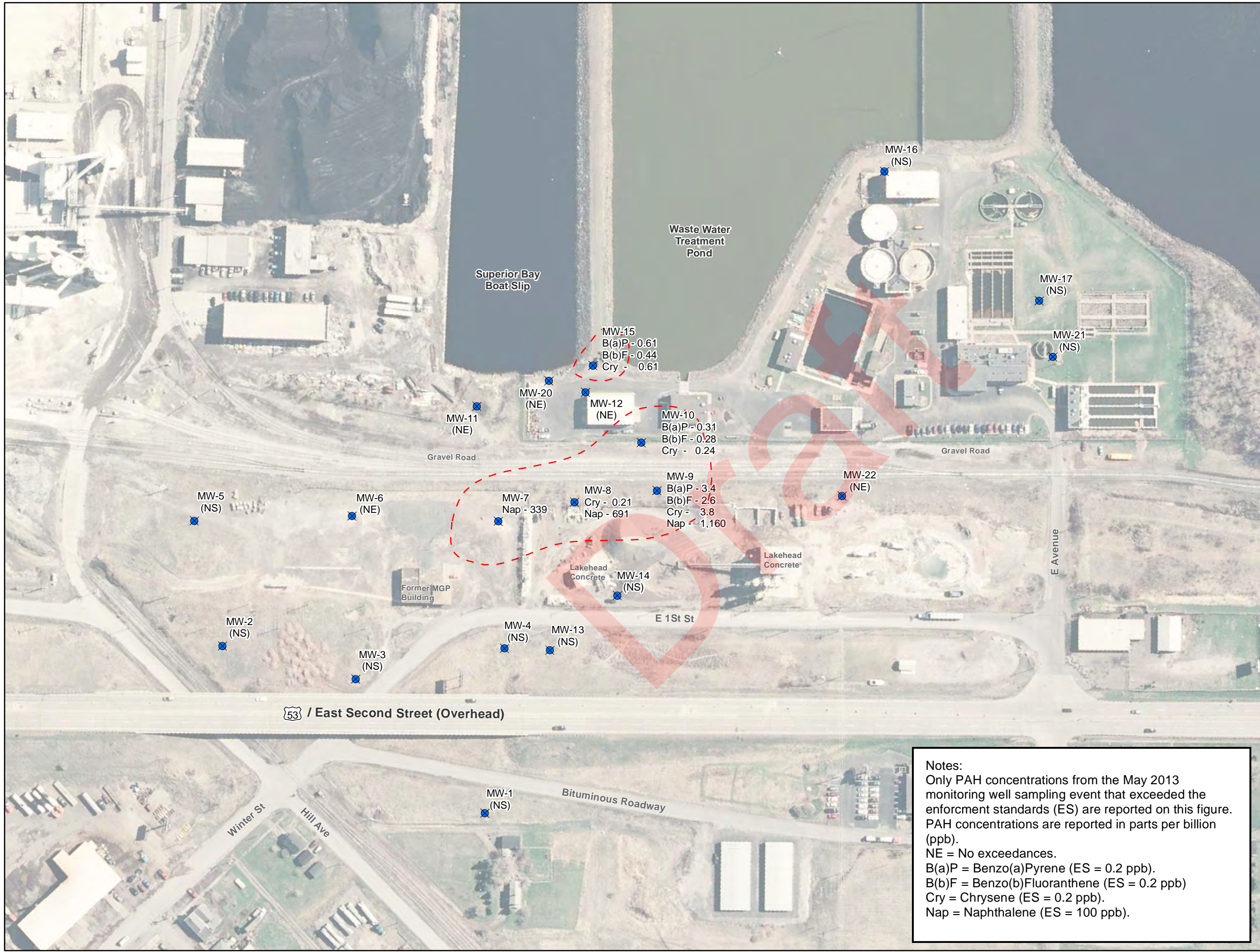
File: Fig7_May2013_Benzene
 Summit Proj. No.: 2118-0001
 Plot Date: 02-23-15
 Arc Operator: RLA
 Reviewed by: WMG




/ East Second Street (Overhead)


Bituminous Roadway

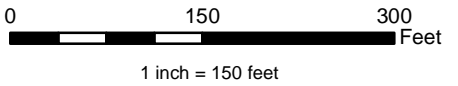
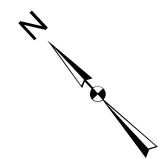
Map adapted from LMIC WMS:2009 Northeast Minnesota, 50-cm Resolution, Digital Orthorectified Images, Duluth (DNR)



Explanation

 **Monitoring Well**
Monitoring well with PAH concentration in groundwater.

 **PAH Exceedance Extent**
Estimated extent where one or more PAH concentration(s) exceeded the groundwater enforcement standard.



Estimated Extent of PAH in Groundwater - May 2013

Superior Water Light & Power MGP
Superior, Wisconsin

Figure 8

File: Fig8_May2013_PAH
Summit Proj. No.: 2118-0001
Plot Date: 2/23/2015
Arc Operator: RLA
Reviewed by: WMG

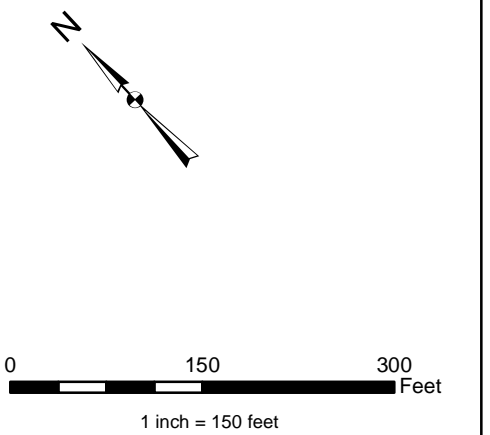
Notes:
Only PAH concentrations from the May 2013 monitoring well sampling event that exceeded the enforcement standards (ES) are reported on this figure. PAH concentrations are reported in parts per billion (ppb).
NE = No exceedances.
B(a)P = Benzo(a)Pyrene (ES = 0.2 ppb).
B(b)F = Benzo(b)Fluoranthene (ES = 0.2 ppb)
Cry = Chrysene (ES = 0.2 ppb).
Nap = Naphthalene (ES = 100 ppb).





Explanation

- Monitoring Well with Benzene Concentration in Groundwater
- Interpreted Benzene Isoconcentration Line

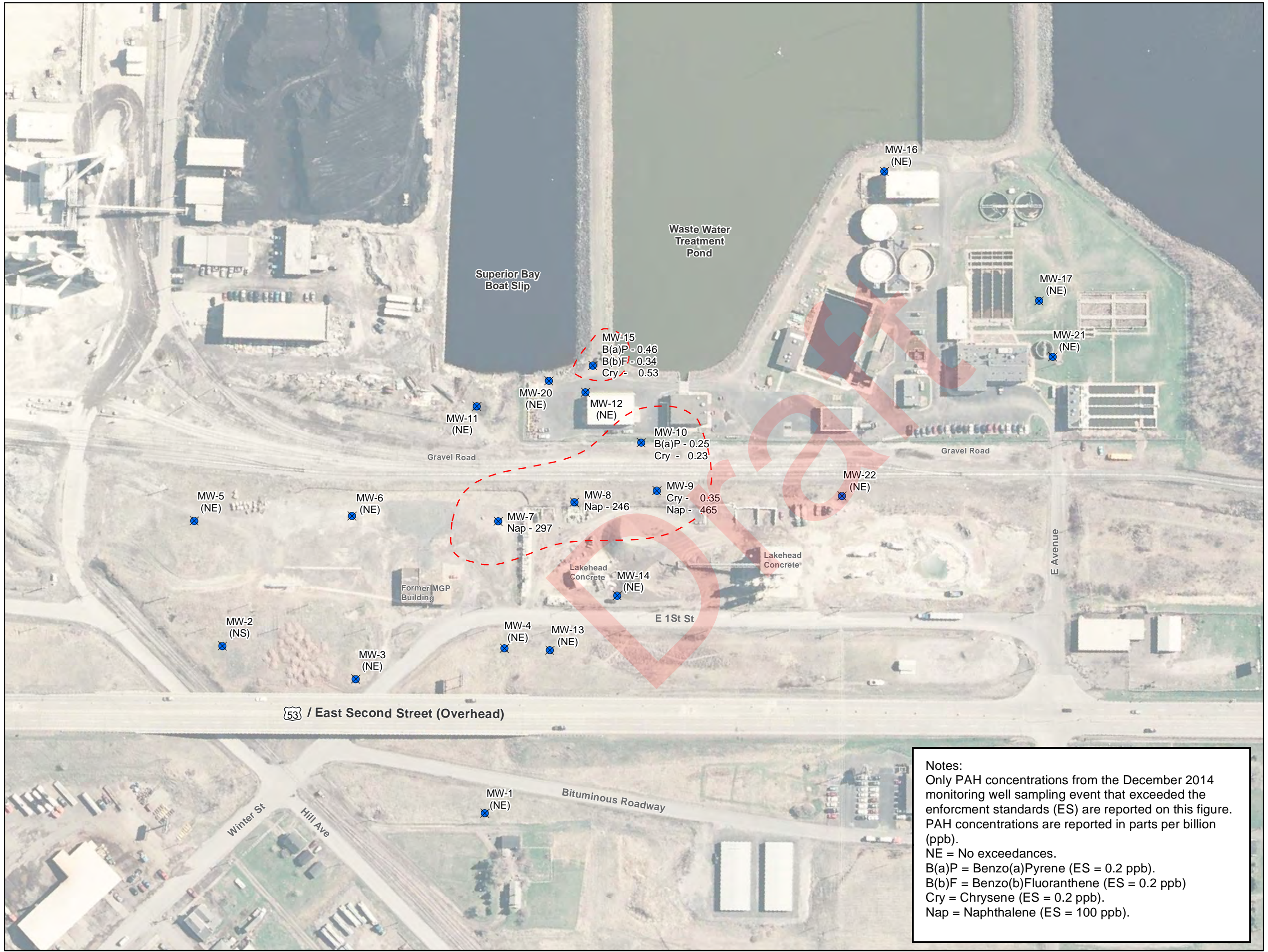


Estimated Extent of Benzene in Groundwater (Dec. 2014)
 Superior Water Light & Power MGP
 Superior, Wisconsin


Figure 9
 File: Fig9_Dec2014_Benzene
 Summit Proj. No.: 2118-0001
 Plot Date: 02-23-15
 Arc Operator: RLA
 Reviewed by: WMG




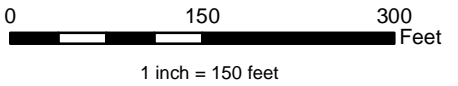
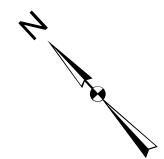
Map adapted from LMIC WMS:2009 Northeast Minnesota, 50-cm Resolution, Digital Orthorectified Images, Duluth (DNR)



Explanation

 **Monitoring Well**
Monitoring well with PAH concentration in groundwater.

 **PAH Exceedance Extent**
Estimated extent where one or more PAH concentration(s) exceeded the groundwater enforcement standard.



Estimated Extent of PAH in Groundwater - Dec. 2014
Superior Water Light & Power MGP
Superior, Wisconsin

Figure 10
File: Fig10_Dec2014_PAH
Summit Proj. No.: 2118-0001
Plot Date: 2/24/2015
Arc Operator: RLA
Reviewed by: WMG

Notes:
Only PAH concentrations from the December 2014 monitoring well sampling event that exceeded the enforcement standards (ES) are reported on this figure. PAH concentrations are reported in parts per billion (ppb).
NE = No exceedances.
B(a)P = Benzo(a)Pyrene (ES = 0.2 ppb).
B(b)F = Benzo(b)Fluoranthene (ES = 0.2 ppb)
Cry = Chrysene (ES = 0.2 ppb).
Nap = Naphthalene (ES = 100 ppb).



Tables

Draft

**Table 1. Groundwater Elevation Data,
Superior, Wisconsin MGP**

Well ID	Measuring Point Elevation ^b	Depth to Water ^c May 16, 2013	Depth to Water ^c December 17, 2014	Groundwater Elevation ^b May 16, 2013	Groundwater Elevation ^b December 17, 2014	Hydraulic Conductivity ^d
MW-1	619.11	8.71	5.53	610.40	613.58	Clay ^e
MW-2	617.15	4.66	5.80	612.49	611.35	Clay
MW-3	617.07	10.16	Ice blockage	606.91	Ice blockage	Clay
MW-4	617.11	8.31	6.44	608.80	610.67	Clay
MW-5	612.40	6.36	7.67	606.04	604.73	7.63 x 10 ⁻⁵
MW-6	613.74	9.00	9.65	604.74	604.09	3.07 x 10 ⁻³
MW-7	614.91	11.90	11.68	603.01	603.23	7.79 x 10 ⁻³
MW-8	615.17	11.83	11.71	603.34	603.46	3.26 x 10 ⁻³
MW-9	611.38	8.23	8.38	603.15	603.00	1.17 x 10 ⁻²
MW-10	606.08	3.82	3.29	602.26	602.79	7.46 x 10 ⁻³
MW-11	609.89	7.99	6.99	601.90	602.90	8.48 x 10 ⁻³
MW-12	607.64	6.35	4.91	601.29	602.73	3.28 x 10 ⁻³
MW-13	616.26	4.76	4.79	611.50	611.47	Clay
MW-14	617.27	8.31	9.29	608.96	607.98	Clay
MW-15	608.95	7.92	6.19	601.03	602.76	1.1 x 10 ⁻³
MW-16	613.11	12.68	10.59	600.43	602.52	1.6 x 10 ⁻³
MW-17	610.93	7.85	7.96	603.08	602.97	2.3 x 10 ⁻³
MW-20	605.43	4.09	2.67	601.34	602.76	6.8 x 10 ⁻³
MW-21	612.57	8.96	9.47	603.61	603.10	1.5 x 10 ⁻¹
MW-22	610.55	6.27	6.83	604.28	603.72	4.4 x 10 ⁻³

a. The ground surface and top of casings elevations were surveyed by Salo Engineering.

b. Elevation is given in feet above mean sea level.

c. Depth to water in feet as measured below top of casing.

d. Hydraulic conductivity (cm/sec) was determined by conducting slug tests

in November 2001, November 2004, and October 2006.

e. Wells screened in high plasticity clay. Estimated hydraulic conductivity is less than 10⁻⁶ cm/sec. (Slug test was not performed on well.)

Table 2, MW-1

Parameters	NR 140 Enforcement Standard	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
		2/11/2002	9/20/2002	11/15/2005	8/12/2008	11/3/2011	12/16/2014
VOC							
Acetone	9,000	---	---	---	<10	<25	<10.0
Benzene	5	<0.45	<0.25	<0.41	<1	<1	<0.15
Bromobenzene	None	---	---	<0.82	<1	<1	<0.13
2-Butanone (MEK)	4000	---	---	---	<4	<4	<2.5
Chloroethane	400	---	---	<0.97	<1	<1	<0.24
Chloroform	6	---	---	<0.37	<1	<1	<0.16
Chloromethane	30	---	---	0.33	3.8	<4	<0.34
Ethylbenzene	700	<0.82	<0.53	<0.54	<1	<1	<0.16
Isopropylbenzene (Cumene)	None	---	---	<0.59	<1	<1	<0.50
p-Isopropyltoluene	None	---	---	<0.67	<1	<1	<0.50
Naphthalene	100	---	---	<0.74	<4	<4	<2.0
n-Propylbenzene	None	---	---	<0.81	<1	<1	<0.50
Styrene	100	---	---	<0.86	<1	<1	<0.063
Toluene	800	<0.68	<0.84	<0.67	<1	<1	<0.11
1,2,4-Trimethylbenzene	480 ^a	---	<0.69	<0.97	<1	<1	<0.50
1,3,5-Trimethylbenzene	480 ^a	---	<0.64	<0.83	<1	<1	<0.50
m&p-Xylene	2,000 ^b	<0.77	<1.1	<1.8	<2	<2	---
o-Xylene	2,000 ^b	<1.7	<0.73	<0.83	<1	<1	---
Xylene(Total)	2,000 ^b	---	---	---	---	<3.0	<0.40
PAH							
1-Methylnaphthalene	None	<0.027	<0.027	0.07	---	---	<0.0045
2-Chloronaphthalene	None	---	---	---	---	---	<0.0029
2-Methylnaphthalene	None	<0.028	<0.028	0.05	---	---	<0.0081
Acenaphthene	None	<0.018	<0.018	0.049	<0.041	<0.040	<0.0046
Acenaphthylene	None	<0.023	<0.023	<0.0086	<0.041	<0.040	<0.0021
Anthracene	3,000	<0.020	<0.020	<0.012	<0.041	<0.040	<0.0024
Benzo(a)anthracene	None	<0.019	<0.019	<0.017	<0.041	<0.040	<0.020
Benzo(a)pyrene	0.2	<0.012	<0.012	<0.019	<0.041	<0.040	<0.0030
Benzo(b)fluoranthene	0.2	<0.014	<0.014	<0.017	<0.041	<0.040	<0.0022
Benzo(g,h,i)perylene	None	<0.015	<0.015	<0.020	<0.041	<0.040	<0.0025
Benzo(k)fluoranthene	None	<0.013	<0.013	<0.020	<0.041	<0.040	<0.020
Chrysene	0.2	<0.018	<0.018	<0.020	<0.041	<0.040	<0.020
Dibenz(a,h)anthracene	None	<0.017	<0.017	---	<0.041	<0.040	<0.0044
Dibenzofuran	None	---	---	---	---	---	<0.0025
Fluoranthene	400	<0.028	<0.028	<0.016	<0.041	<0.040	<0.0031
Fluorene	400	<0.021	<0.021	0.0097	<0.041	<0.040	<0.0021
Indeno(1,2,3-cd)pyrene	None	<0.014	<0.014	<0.020	<0.041	<0.040	<0.0023
Naphthalene	100	0.21	<0.027	0.28	<0.041	<0.040	<0.014
Phenanthrene	None	0.028	<0.019	<0.012	<0.041	<0.040	<0.0029
Pyrene	250	<0.020	<0.020	<0.015	<0.041	<0.040	<0.0073

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table 2, MW-2

Parameters	NR 140 Enforcement Standard	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
		2/11/2002	9/18/2002	11/15/2005	8/13/2008	11/3/2011	12/17/2014
VOC							
Acetone	9,000	---	---	---	<10	<25	<10.0
Benzene	5	<0.45	<0.25	<0.41	<1	<1	0.19 J
Bromobenzene	None	---	---	<0.82	<1	<1	<0.13
2-Butanone (MEK)	4000	---	---	---	<4	<4	<2.5
Chloroethane	400	---	---	<0.97	<1	<1	<0.24
Chloroform	6	---	---	<0.37	<1	<1	<0.16
Chloromethane	30	---	---	<0.24	6	<4	<0.34
Ethylbenzene	700	<0.82	<0.53	<0.54	<1	<1	<0.16
Isopropylbenzene (Cumene)	None	---	---	<0.59	<1	<1	<0.50
p-Isopropyltoluene	None	---	---	<0.67	<1	<1	<0.50
Naphthalene	100	---	---	<0.74	<4	<4	<2.0
n-Propylbenzene	None	---	---	<0.81	<1	<1	<0.50
Styrene	100	---	---	<0.86	<1	<1	<0.063
Toluene	800	<0.68	<0.84	<0.67	<1	<1	0.16 J
1,2,4-Trimethylbenzene	480 ^a	---	<0.69	<0.97	<1	<1	<0.50
1,3,5-Trimethylbenzene	480 ^a	---	<0.64	<0.83	<1	<1	<0.50
m&p-Xylene	2,000 ^b	<0.77	<1.1	<1.8	<2	<2	---
o-Xylene	2,000 ^b	<1.7	<0.73	<0.83	<1	<1	---
Xylene(Total)	2,000 ^b	---	---	---	---	<3.0	<0.40
PAH							
1-Methylnaphthalene	None	<0.027	<0.027	<0.012	---	---	0.0096 J
2-Chloronaphthalene	None	---	---	---	---	---	<0.0029
2-Methylnaphthalene	None	<0.028	<0.028	<0.012	---	---	0.017 J
Acenaphthene	None	<0.018	<0.018	<0.0088	<0.041	<0.041	0.0070 J
Acenaphthylene	None	<0.023	<0.023	<0.0088	<0.041	<0.041	<0.0021
Anthracene	3,000	<0.020	<0.020	<0.013	<0.041	<0.041	<0.0024
Benzo(a)anthracene	None	<0.019	<0.019	<0.017	<0.041	<0.041	<0.020
Benzo(a)pyrene	0.2	<0.012	<0.012	<0.020	<0.041	<0.041	0.0077 J
Benzo(b)fluoranthene	0.2	<0.014	<0.014	<0.017	<0.041	<0.041	0.0063 J
Benzo(g,h,i)perylene	None	<0.015	<0.015	<0.021	<0.041	<0.041	<0.0025
Benzo(k)fluoranthene	None	<0.013	<0.013	<0.021	<0.041	<0.041	<0.020
Chrysene	0.2	<0.018	<0.018	<0.021	<0.041	<0.041	<0.020
Dibenz(a,h)anthracene	None	<0.017	<0.017	---	<0.041	<0.041	<0.0044
Dibenzofuran	None	---	---	---	---	---	0.0030 J
Fluoranthene	400	<0.028	<0.028	<0.017	<0.041	<0.041	0.0043 J
Fluorene	400	<0.021	<0.021	<0.0098	<0.041	<0.041	0.0047 J
Indeno(1,2,3-cd)pyrene	None	<0.014	<0.014	<0.020	<0.041	<0.041	<0.0023
Naphthalene	100	<0.027	<0.027	0.038	0.049	0.049	0.043 J
Phenanthrene	None	<0.019	<0.019	<0.012	<0.041	<0.041	0.0078 J
Pyrene	250	<0.020	<0.020	<0.016	<0.041	<0.041	<0.0073

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table 2, MW-3

Parameters	NR 140 Enforcement Standard	MW-3	MW-3	MW-3	MW-3	MW-3
		2/11/2002	9/20/2002	11/15/2005	8/12/2008	11/3/2011
VOC						
Acetone	9,000	---	---	---	<50	<500
Benzene	5	21	620	2,800	3,890	2,160
Bromobenzene	None	---	---	<20	<5	<20
2-Butanone (MEK)	4000	---	---	---	<20	<80
Chloroethane	400	---	---	<24	<5	<20
Chloroform	6	---	---	<9.2	<5	<20
Chloromethane	30	---	---	<6.0	<5	
Ethylbenzene	700	4.8	45	130	117	108
Isopropylbenzene (Cumene)	None	---	---	<15	8.1	<20
p-Isopropyltoluene	None	---	---	<17	<5	<20
Naphthalene	100	---	---	2,100	1,390	<80
n-Propylbenzene	None	---	---	<20	5.2	<20
Styrene	100	---	---	<22	<5	<20
Toluene	800	26	100	25	7.8	<20
1,2,4-Trimethylbenzene	480 ^a	---	26	120	100	67.2
1,3,5-Trimethylbenzene	480 ^a	---	11	41	<5	<20
m&p-Xylene	2,000 ^b	44	130	260	58.7	<40
o-Xylene	2,000 ^b	8.5	96	25	13.3	<20
Xylene (Total)	2,000 ^b	---	---	---	---	---
PAH						
1-Methylnaphthalene	None	<0.027	22	82	---	---
2-Chloronaphthalene	None	---	---	---	---	---
2-Methylnaphthalene	None	<0.028	15	29	---	---
Acenaphthene	None	<0.018	<7.2	2.7	1.9	1.8
Acenaphthylene	None	<0.023	<9.2	1.4	1.2	0.8
Anthracene	3,000	<0.020	0.27	1.7	0.92	0.97
Benzo(a)anthracene	None	<0.019	<0.019	<1.7	<0.041	<0.041
Benzo(a)pyrene	0.2	<0.012	0.014	<1.9	<0.041	<0.041
Benzo(b)fluoranthene	0.2	<0.014	<0.014	<1.7	<0.041	<0.041
Benzo(g,h,i)perylene	None	<0.015	<0.015	<2.0	<0.041	<0.041
Benzo(k)fluoranthene	None	<0.013	<0.013	<2.0	<0.041	<0.041
Chrysene	0.2	<0.018	<0.018	<2.0	<0.041	<0.041
Dibenz(a,h)anthracene	None	<0.017	<0.017	---	<0.041	<0.041
Dibenzofuran	None	---	---	---	---	---
Fluoranthene	400	<0.028	0.061	<1.6	0.35	0.32
Fluorene	400	<0.021	<8.4	6	3.1	3.2
Indeno(1,2,3-cd)pyrene	None	<0.014	<0.014	<2.0	<0.041	<0.041
Naphthalene	100	<0.027	160	650	385	1.3
Phenanthrene	None	<0.019	<7.6	9.6	4.7	5.2
Pyrene	250	<0.020	0.076	<1.5	0.35	0.3

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporting

Table 2 MW-4

Parameters	NR 140 Enforcement Standard	MW-4	MW-4	MW-4-dup	MW-4	MW-4	MW-4	MW-4
		2/11/2002	9/20/2002	9/20/2002	11/15/2005	8/13/2008	4/14/2011	12/16/2014
VOC								
Acetone	9,000	---	---	---	---	<20,000	<2,500	<100000
Benzene	5	110,000	120,000	130,000	190,000	227,000	157,000	739000
Bromobenzene	None	---	---	---	<1,000	<2,000	<100	<1320
2-Butanone (MEK)	4000	---	---	---	---	<8,000	<400	<25000
Chloroethane	400	---	---	---	<1,200	<2,000	<100	<2410
Chloroform	6	---	---	---	<460	<2,000	<100	<1610
Chloromethane	30	---	---	---	<300	<2,000	<400	<3410
Ethylbenzene	700	<820	<530	<530	<680	<2,000	391	<1650
Isopropylbenzene (Cumene)	None	---	---	---	<740	<2,000	<100	<5000
p-Isopropyltoluene	None	---	---	---	<840	<2,000	<100	<5000
Naphthalene	100	---	---	---	<920	<8,000	<400	<20000
n-Propylbenzene	None	---	---	---	<1,000	<2,000	<100	<5000
Styrene	100	---	---	---	<1,100	<2,000	106	<630
Toluene	800	19000	<840	960	1500	<2,000	18500	66000
1,2,4-Trimethylbenzene	480 ^a	---	<690	<690	<1,200	<2,000	<100	<5000
1,3,5-Trimethylbenzene	480 ^a	---	<640	<640	<1,000	<2,000	<100	<5000
m&p-Xylene	2,000 ^b	<770	<1,100	<1,100	<2,200	<4,000	1970	---
o-Xylene	2,000 ^b	<1,700	<730	<730	<1,000	<2,000	187	---
Xylene(Total)	2,000 ^b	---	---	---	---	---	---	<4040
PAH								
1-Methylnaphthalene	None	0.055	0.042	0.033	0.11	---	---	0.073
2-Chloronaphthalene	None	---	---	---	---	---	---	<0.0029
2-Methylnaphthalene	None	0.088	0.059	0.048	0.13	---	---	0.16
Acenaphthene	None	<0.018	<0.018	<0.018	<0.086	<0.04	<0.041	<0.0046
Acenaphthylene	None	<0.023	<0.023	<0.023	<0.086	<0.04	<0.041	<0.0021
Anthracene	3,000	<0.020	<0.020	<0.020	<0.12	<0.04	<0.041	<0.0024
Benzo(a)anthracene	None	<0.019	<0.019	<0.019	<0.17	<0.04	<0.041	<0.020
Benzo(a)pyrene	0.2	<0.012	<0.012	<0.012	<0.19	<0.04	<0.041	<0.0030
Benzo(b)fluoranthene	0.2	<0.014	<0.014	<0.014	<0.17	<0.04	<0.041	<0.0022
Benzo(g,h,i)perylene	None	<0.015	<0.015	<0.015	<0.20	<0.04	<0.041	<0.0025
Benzo(k)fluoranthene	None	<0.013	<0.013	<0.013	<0.20	<0.04	<0.041	<0.020
Chrysene	0.2	<0.018	<0.018	<0.018	<0.20	<0.04	<0.041	<0.020
Dibenz(a,h)anthracene	None	<0.017	<0.017	<0.017	---	<0.04	<0.041	<0.0044
Dibenzofuran	None	---	---	---	---	---	---	<0.0025
Fluoranthene	400	<0.028	<0.028	<0.028	<0.16	<0.04	<0.041	<0.0031
Fluorene	400	<0.021	<0.021	<0.021	<0.096	<0.04	<0.041	<0.0021
Indeno(1,2,3-cd)pyrene	None	<0.014	<0.014	<0.014	<0.20	<0.04	<0.041	<0.0023
Naphthalene	100	0.47	0.38	0.32	2.9	2.4	3.4	7.7
Phenanthrene	None	0.028	<0.019	<0.019	<0.12	<0.04	<0.041	<0.0029
Pyrene	250	<0.020	<0.020	<0.020	<0.15	<0.04	<0.041	<0.0073

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

C. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporting lim

Table 2 MW-5

Parameters	NR 140 Enforcement Standard	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5 DUP	MW-5
		11/20/2001	2/11/2002	9/18/2002	11/17/2004	11/15/2005	8/12/2008	11/3/2011	11/3/2011	12/17/2014
VOC										
Acetone	9,000	---	---	---	---	---	<10	<25	<25	<10.0
Benzene	5	6.2	<0.45	0.99	1.2	<0.41	<1	<1	<1	0.30 J
Bromobenzene	None	---	---	---	---	<0.82	<1	<1	<1	<0.13
2-Butanone (MEK)	4000	---	---	---	---	---	<4	<4	<4	<2.5
Chloroethane	400	---	---	---	---	<0.97	<1	<1	<1	<0.24
Chloroform	6	---	---	---	---	<0.37	<1	<1	<1	<0.16
Chloromethane	30	---	---	---	---	<0.24	<1	<4	<4	<0.34
Ethylbenzene	700	<0.82	<0.82	<0.53	<0.4	<0.54	<1	<1	<1	<0.16
Isopropylbenzene (Cumene)	None	---	---	---	---	<0.59	<1	<1	<1	<0.50
p-Isopropyltoluene	None	---	---	---	---	<0.67	<1	<1	<1	<0.50
Naphthalene	100	---	---	---	---	1.2	<4	<4	<4	<2.0
n-Propylbenzene	None	---	---	---	---	<0.81	<1	<1	<1	<0.50
Styrene	100	---	---	---	---	<0.86	<1	<1	<1	<0.063
Toluene	800	2.1	<0.68	<0.84	1.4	<0.67	<1	<1	<1	<0.11
1,2,4-Trimethylbenzene	480 ^a	---	---	<0.69	---	<0.97	<1	<1	<1	<0.50
1,3,5-Trimethylbenzene	480 ^a	---	---	<0.64	---	<0.83	<1	<1	<1	<0.50
m&p-Xylene	2,000 ^b	6.1	<0.77	<1.1	<0.74	<1.8	<2	<2	<2	---
o-Xylene	2,000 ^b	3	<1.7	<0.73	<0.36	<0.83	<1	<1	<1	---
Xylene(Total)	2,000 ^b	---	---	---	---	---	---	---	---	<0.40
PAH										
1-Methylnaphthalene	None	0.058	<0.027	0.19	0.15	0.14	---	---	---	0.09
2-Chloronaphthalene	None	---	---	---	---	---	---	---	---	0.031 J
2-Methylnaphthalene	None	<0.028	<0.028	0.15	0.068	0.057	---	---	---	<0.0081
Acenaphthene	None	3.8	0.11	0.43	0.44	0.38	0.66	0.32	0.31	0.29
Acenaphthylene	None	0.16	<0.023	<0.023	<0.039	0.011	<0.041	<0.042	<0.045	<0.0021
Anthracene	3,000	0.22	<0.020	0.059	0.046	0.034	<0.041	<0.042	<0.045	<0.0024
Benzo(a)anthracene	None	0.053	<0.019	<0.019	<0.039	<0.017	<0.041	<0.042	<0.045	<0.020
Benzo(a)pyrene	0.2	0.023	<0.012	<0.012	<0.036	<0.019	<0.041	<0.042	<0.045	<0.0030
Benzo(b)fluoranthene	0.2	0.022	<0.014	<0.014	<0.036	<0.017	<0.041	<0.042	<0.045	<0.0022
Benzo(g,h,i)perylene	None	0.017	<0.015	<0.015	<0.041	<0.020	<0.041	<0.042	<0.045	<0.0025
Benzo(k)fluoranthene	None	0.014	<0.013	<0.013	<0.039	<0.020	<0.041	<0.042	<0.045	<0.020
Chrysene	0.2	0.037	<0.018	<0.018	<0.033	<0.020	<0.041	<0.042	<0.045	<0.020
Dibenz(a,h)anthracene	None	<0.017	<0.017	<0.017	<0.044	---	<0.041	<0.042	<0.045	<0.0044
Dibenzofuran	None	---	---	---	---	---	---	---	---	0.061
Fluoranthene	400	1.3	0.03	0.051	0.035	0.041	0.051	<0.042	0.047	0.013 J
Fluorene	400	1.2	0.035	0.24	0.24	0.2	0.36	0.16	0.18	0.12
Indeno(1,2,3-cd)pyrene	None	<0.014	<0.014	<0.014	<0.034	<0.020	<0.041	<0.042	<0.045	<0.0023
Naphthalene	100	0.2	0.092	1.3	0.72	0.77	0.54	0.13	0.12	0.59
Phenanthrene	None	0.42	<0.19	0.22	0.16	0.067	0.1	<0.042	<0.045	0.034 J
Pyrene	250	1.4	0.039	0.039	<0.033	0.033	<0.041	<0.042	<0.045	0.013 J

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table 2, MW-6

Parameters	NR 140 Enforcement Standard	MW-6	MW-6	MW-6	MW-6-Dup	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6
		11/20/2001	2/11/2002	9/18/2002	9/18/2002	11/17/2004	11/16/2005	8/12/2008	7/22/2009	4/22/2010	10/20/2010	4/13/2011	11/3/2011	8/21/2012	5/17/2013	12/16/2014
VOC																
Acetone	9,000	---	---	---	---	---	---	21.9	42.1	20.6	12.2	<25	<25	<12.5	37.8	27.2
Benzene	5	5	10	3.1	3.1	17	4.6	2.1	4.5	4.1	1.7	3.7	2.7	2.2	1.3	1.5
Bromobenzene	None	---	---	---	---	---	<0.82	<1	<1	<1	<1	<1	<1	<0.086	<0.23	<0.13
2-Butanone (MEK)	4000	---	---	---	---	---	---	<4	<4	<4	<4	<4	<4	<2.0	<2.5	<2.5
Chloroethane	400	---	---	---	---	---	0.97	<1	<1	<1	<1	<1	<1	<0.22	<0.50	<0.24
Chloroform	6	---	---	---	---	---	<0.37	<1	<1	<1	<1	<1	<1	<0.14	<0.27	<0.16
Chloromethane	30	---	---	---	---	---	<0.48	<1	<4	<4	<4	<4	<4	<0.41	<2.0	<0.34
Ethylbenzene	700	1.5	5.8	1.1	1.2	21	3.3	1.3	12.0	3.4	<1	2.6	1.2	1.3	1.7	0.84 J
Isopropylbenzene (Cumene)	None	---	---	---	---	---	<0.59	<1	1.2	<1	<1	<1	<1	<0.076	<0.50	<0.50
p-Isopropyltoluene	None	---	---	---	---	---	<0.67	1.6	2.6	3.3	<1	1.7	2.4	2	1.7	1.6
Naphthalene	100	---	---	---	---	---	26	12.7	88.2	27.1	8.1	14.3	14.2	12.9	14.7	6.8
n-Propylbenzene	None	---	---	---	---	---	<0.81	<1	<1	<1	<1	<1	<1	<0.078	<0.50	<0.50
Styrene	100	---	---	---	---	---	<0.86	<1	<1	<1	<1	<1	<1	<0.060	<0.24	<0.063
Toluene	800	1.6	2	0.84	0.85	2.6	1.1	1	1.5	1.3	<1	<1	1.3	<0.077	<0.23	0.55 J
1,2,4-Trimethylbenzene	480 ^a	---	---	0.8	0.81	---	<0.97	1	7.8	2.1	<1	1.2	1.2	1.1	1.3	0.87 J
1,3,5-Trimethylbenzene	480 ^a	---	---	<0.64	<0.64	---	<0.83	<1	1.9	<1	<1	<1	<1	<0.087	<0.50	0.58 J
m&p-Xylene	2,000 ^p	2.2	2.6	<1.1	<1.1	4	<1.8	<2	2.5	<2	2.4	<2	<2	<0.11	---	---
o-Xylene	2,000 ^p	1.4	2.3	<0.73	<0.73	7.6	1.2	<1	4.5	1.6	<1	<1	<1	<0.10	---	---
Xylene(Total)	2,000 ^p	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.72	<0.40
PAH																
1-Methylnaphthalene	None	3	5	2.5	2.1	11	4.1	---	---	---	4.1	---	---	---	---	1.6
2-Chloronaphthalene	None	---	---	---	---	---	---	---	---	---	0.15	---	---	---	---	<0.0029
2-Methylnaphthalene	None	2.3	3.7	1.6	1.3	8	2.4	---	---	---	0.34	---	---	---	---	0.79
Acenaphthene	None	4.8	5	4.5	3.9	13	5.1	5.1	8.5	5.7	0.061	3.5	3.5	3.1	2.1	2.7
Acenaphthylene	None	0.26	0.22	<0.92	<0.92	0.49	<0.43	0.2	<0.040	0.2	<0.04	0.13	0.15	0.13	0.1	0.1
Anthracene	3,000	0.96	<0.80	<0.8	<0.8	0.69	<0.61	0.52	0.46	0.46	<0.04	0.28	0.38	0.37	0.22	0.22
Benzo(a)anthracene	None	0.12	0.083	<0.76	<0.76	<0.39	<0.83	0.069	0.095	0.053	<0.04	0.043	0.047	0.068	0.049	0.035 J
Benzo(a)pyrene	0.2	0.026	<0.012	<0.48	<0.48	<0.36	<0.97	<0.041	<0.040	<0.041	<0.04	<0.041	<0.040	<0.010	<0.0020	<0.0030
Benzo(b)fluoranthene	0.2	0.022	<0.014	<0.56	<0.56	<0.36	<0.83	<0.041	<0.040	<0.31	<0.04	<0.041	<0.040	<0.010	<0.020	<0.0022
Benzo(g,h,i)perylene	None	0.016	<0.015	<0.6	<0.6	<0.41	<1.0	<0.041	<0.040	<0.041	<0.04	<0.041	<0.040	<0.010	<0.020	<0.0025
Benzo(k)fluoranthene	None	0.018	<0.013	<0.52	<0.52	<0.39	<1.0	<0.041	<0.040	<0.041	<0.04	<0.041	<0.040	<0.0090	<0.020	<0.020
Chrysene	0.2	0.095	0.081	<0.72	<0.72	<0.33	<1.0	0.095	0.086	<0.041	0.055	<0.041	0.047	0.078	0.047	0.039 J
Dibenz(a,h)anthracene	None	<0.017	<0.017	<0.68	<0.68	<0.44	---	<0.041	<0.040	<0.041	<0.04	<0.041	<0.040	<0.0090	<0.020	<0.0044
Dibenzofuran	None	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.029 J
Fluoranthene	400	1.1	<1.1	<1.1	<1.1	1.6	<0.82	0.96	0.79	0.53	0.66	0.4	0.62	0.74	0.42	0.47
Fluorene	400	0.76	<0.84	<0.84	<0.84	1.6	0.5	0.83	1.2	0.92	0.52	0.52	0.56	0.51	0.3	0.39
Indeno(1,2,3-cd)pyrene	None	<0.014	<0.014	<0.56	<0.56	<0.34	<1.0	<0.041	<0.040	<0.041	<0.04	<0.041	<0.040	<0.010	<0.020	<0.0023
Naphthalene	100	9.8	34	12	10	91	18	9.2	52.8	18	6.7	8.3	7.9	5.6	7.1	4.4
Phenanthrene	None	3.1	2.1	3.4	3.8	3.8	3.1	3.3	2.9	2.4	2.2	1.7	2.2	2.6	1.3	1.4
Pyrene	250	1.2	0.88	1.1	1.2	0.76	0.81	1.1	0.91	0.59	0.73	0.49	0.69	0.83	0.5	0.55

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table 2, MW-7

Parameters	NR 140 Enforcement Standard	MW-7	MW-7	MW-7-Dup	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7 DUP	MW-7	MW-7	MW-7 DUP	MW-7	MW-7	MW-7	MW-7	
		11/20/2001	2/11/2002	2/11/2002	9/18/2002	11/17/2004	11/16/2005	8/12/2008	7/22/2009	4/22/2010	4/22/2010	10/20/2010	4/13/2011	4/13/2011	11/4/2011	8/21/2012	5/16/2013	12/17/2014	
VOC																			
Acetone	9,000	---	---	---	---	---	---	<2,000	<10,000	<10,000	<25,000	<10,000	<25,000	<25,000	<1250	<6250	<5000	<1000	
Benzene	5	230,000	190,000	200,000	110,000	46,000	110,000	156,000	198,000	242,000	197,000	117,000	204,000	209,000	74,600	78,200	122,000	78,000	
Bromobenzene	None	---	---	---	---	---	<820	<200	<1000	<1000	<2,500	<1,000	<1,000	<1,000	<50	<43.0	<116	<13.2	
2-Butanone (MEK)	4000	---	---	---	---	---	<800	<4000	<4000	<10,000	<4,000	<4,000	<4,000	<200	<1000	<1250	<250		
Chloroethane	400	---	---	---	---	---	<970	<200	<1000	<1000	<2,500	<1,000	<1,000	<1,000	<50	<108	<250	<24.1	
Chloroform	6	---	---	---	---	---	<370	<200	<1000	<1000	<2,500	<1,000	<1,000	<1,000	<50	<72.5	<136	<16.1	
Chloromethane	30	---	---	---	---	---	<240	<200	<4000	<4000	<10,000	<4,000	<4,000	<4,000	<200	<206	<1000	<34.1	
Ethylbenzene	700	1,900	3,600	3,700	6,100	2,100	3,600	4,760	4,280	4,750	4,350	4,400	4,200	4,230	1,770	1,690	3,500	1,730	
Isopropylbenzene (Cumene)	None	---	---	---	---	---	<590	<200	<1000	<1000	<2,500	<1,000	<1,000	<1,000	<50	<38.0	<250	<50.0	
p-Isopropyltoluene	None	---	---	---	---	---	<670	<200	<1000	<1000	<2,500	<1,000	<1,000	<1,000	<50	<43.0	<250	<50.0	
Naphthalene	100	---	---	---	---	---	<740	<800	<4000	<4000	<10,000	<4,000	<4,000	<4,000	<200	<34.0	<1000	239 J	
n-Propylbenzene	None	---	---	---	---	---	<810	<200	<1000	<1000	<2,500	<1,000	<1,000	<1,000	<50	<39.0	<250	<50.0	
Styrene	100	---	---	---	---	---	<860	428	1350	1310	<2,500	<1,000	<1,000	<1,000	250	<30.0	1690	2100	
Toluene	800	130000	120000	120000	64000	15000	57000	64500	116000	144000	104000	49400	110000	109000	32900	40,600	104000	65300	
1,2,4-Trimethylbenzene	480 ^a	---	---	---	770	---	<970	652	<1000	<1000	<2,500	<1,000	<1,000	<1,000	218	<35.5	<250	232	
1,3,5-Trimethylbenzene	480 ^a	---	---	---	<640	---	<830	369	<1000	<1000	<2,500	<1,000	<1,000	<1,000	124	<43.5	<250	134	
m&p-Xylene	2,000 ^b	14000	9500	10000	18000	5400	12000	14500	17400	18000	15300	11800	16600	16800	4750	4850	---	---	
o-Xylene	2,000 ^b	11000	17000	17000	4800	1600	2500	3960	4910	4760	4380	3060	4300	4320	1360	1320	---	---	
Xylene(Total)	2,000 ^b	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	16300	11500	
PAH																			
1-Methylnaphthalene	None	4.7	4.1	3.8	10	<8.1	6.2	---	---	---	---	---	---	---	---	---	---	---	2.5
2-Chloronaphthalene	None	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.0029
2-Methylnaphthalene	None	6.3	5.6	5.2	13	<9.1	8.4	---	---	---	---	---	---	---	---	---	---	---	3
Acenaphthene	None	1.9	2.4	2	5.4	<7.8	3.1	3.1	3.8	3.5	3.8	5	1.4	2.1	2.3	1.8	3.5	2.3	
Acenaphthylene	None	3.4	2.8	2.5	<4.6	<7.8	1.3	1.3	1.9	1.8	1.9	1.8	0.71	0.96	0.62	0.51	1.1	0.7	
Anthracene	3,000	0.75	<0.40	<0.40	<4	<7.1	<1.3	0.66	0.62	0.68	0.79	0.69	0.42	0.54	0.65	0.76	1.1	1.4	
Benzo(a)anthracene	None	<0.38	<0.38	<0.38	<3.8	<7.9	<1.7	0.23	0.19	0.2	0.25	0.12	0.33	0.42	0.076	0.046	<0.020	0.039 J	
Benzo(a)pyrene	0.2	<0.24	<0.24	<0.24	<2.4	<7.3	<2.0	0.32	0.21	0.26	0.32	0.14	0.4	0.53	0.12	0.062	<0.0020	0.048	
Benzo(b)fluoranthene	0.2	<0.28	<0.28	<0.28	<2.8	<7.2	<1.7	0.33	0.31	0.3	0.33	0.13	0.42	0.54	0.1	0.055	<0.020	<0.0022	
Benzo(g,h,i)perylene	None	<0.30	<0.30	<0.30	<3	<8.3	<2.1	0.28	0.32	0.13	0.29	0.12	0.35	0.47	0.1	0.058	<0.020	0.032 J	
Benzo(k)fluoranthene	None	<0.26	<0.26	<0.26	<2.6	<7.8	<2.1	0.13	0.088	0.11	0.11	0.046	0.16	0.19	<0.043	<0.010	<0.020	<0.020	
Chrysene	0.2	<0.36	<0.36	<0.36	<3.6	<6.6	<2.1	0.32	0.2	0.21	0.26	0.14	0.39	0.49	0.089	0.055	<0.020	0.035 J	
Dibenz(a,h)anthracene	None	<0.34	<0.34	<0.34	<3.4	<8.9	---	0.043	<0.041	<0.041	<0.041	<0.04	0.064	0.084	<0.043	<0.010	<0.020	<0.0044	
Dibenzofuran	None	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.052
Fluoranthene	400	<0.56	<0.56	<0.56	<5.6	<6.7	<1.7	1.2	0.78	0.8	0.99	0.87	0.75	0.9	0.72	0.52	0.8	0.53	
Fluorene	400	2.2	1.7	1.7	<4.2	<8.8	1.7	2.1	2.2	2.4	2.5	2.4	0.98	1.4	1.5	1.2	2.3	1.2	
Indeno(1,2,3-cd)pyrene	None	<0.28	<0.28	<0.28	<2.8	<6.9	<2.1	0.19	0.12	0.099	0.18	0.081	0.22	0.3	0.071	<0.011	<0.020	<0.0023	
Naphthalene	100	350	430	290	490	180	330	238	354	376	400	409	122	201	132	103	339	297	
Phenanthrene	None	1.4	1.2	1.3	6.7	<8.2	3.2	3.2	2.5	3	3.5	3	1.3	1.7	2.6	2	3.5	1.7	
Pyrene	250	0.62	0.72	0.74	<4	<6.6	<1.6	1.6	1.1	1	1.2	1.2	1.3	1.6	0.95	0.62	0.83	0.76	

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table 2, MW-8

Parameters	NR 140 Enforcement Standard	MW-8	MW-8 DUP	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
		11/16/2004	11/16/2004	11/15/2005	8/13/2008	7/22/2009	4/22/2010	10/20/2010	4/14/2011	11/4/2011	8/21/2012	5/16/2013	12/17/2014
VOC													
Acetone	9,000	---	---	---	<500	<10,000	<10,000	<10,000	<12,500	<1250	<6250	<500	<5000
Benzene	5	74,000	72,000	73,000	122,000	109,000	152,000	103,000	58,500	104,000	103,000	93800	64400
Bromobenzene	None	---	---	<510	<50	<1000	<1000	<1000	<2,000	<50	<43.0	<11.6	<66.0
2-Butanone (MEK)	4000	---	---	---	<200	<4000	<4000	<4000	<2,000	<200	<1000	<125	<1250
Chloroethane	400	---	---	<610	<50	<1000	<1000	<1000	<500	<50	<108	<25.0	<120
Chloroform	6	---	---	<230	<50	<1000	<1000	<1000	<500	<50	<72.5	<13.6	<80.5
Chloromethane	30	---	---	<150	<50	<4000	<4000	<4000	<2,000	<200	<206	<100	<170
Ethylbenzene	700	980	880	510	1,220	1,100	1,700	1,070	771	981	952	1070	811
Isopropylbenzene (Cumene)	None	---	---	<370	<50	<1000	<1000	<1000	<500	<50	<38.0	<25.0	<250
p-Isopropyltoluene	None	---	---	<420	<50	<1000	<1000	<1000	<500	<50	<43.0	<25.0	<250
Naphthalene	100	---	---	680	776	<4000	<4000	<4000	<2,000	624	<34.0	741	<1000
n-Propylbenzene	None	---	---	<510	<50	<1000	<1000	<1000	<500	<50	<39.0	<25.0	<250
Styrene	100	---	---	2000	5300	4010	5210	2590	3310	3710	3510	4650	3590
Toluene	800	51000	48000	51000	80200	79800	112000	75100	43800	64500	69300	56500	50800
1,2,4-Trimethylbenzene	480 ^a	---	---	<610	694	<1000	1050	<1000	<500	551	<35.5	762	494 J
1,3,5-Trimethylbenzene	480 ^a	---	---	<520	378	<1000	<1000	<1000	<500	298	<43.5	439	286 J
m&p-Xylene	2,000 ^b	14000	12000	9900	18800	16800	19400	16600	11400	12600	14000	---	---
o-Xylene	2,000 ^b	6500	5600	2200	4720	3850	4590	4110	2710	3500	3740	---	---
Xylene(Total)	2,000 ^b	---	---	---	---	---	---	---	---	---	---	20900	15400
PAH													
1-Methylnaphthalene	None	690	3300	61	---	---	---	---	---	---	---	---	40.3
2-Chloronaphthalene	None	---	---	---	---	---	---	---	---	---	---	---	<0.0029
2-Methylnaphthalene	None	830	3900	44	---	---	---	---	---	---	---	---	46.5
Acenaphthene	None	1000	5200	37	55.7	61.6	65.7	70.2	48.7	51.8	40.9	72.1	30.9
Acenaphthylene	None	130	<770	4.7	9.3	9.5	10.4	9.5	7.8	6.8	6	6.9	4.5
Anthracene	3,000	520	2800	7.9	6.5	5.7	6.5	6.7	6.3	4.5	4.2	5.2	3.1
Benzo(a)anthracene	None	300	1600	<1.7	0.53	0.41	0.62	0.38	0.35	0.2	0.14	0.23	0.11
Benzo(a)pyrene	0.2	230	1200	<1.9	0.24	0.12	0.24	0.13	0.14	<0.040	<0.010	<0.0020	0.027 J
Benzo(b)fluoranthene	0.2	<110	<720	<1.7	0.21	0.25	<0.30	0.12	0.12	<0.040	<0.010	0.049	0.025 J
Benzo(g,h,i)perylene	None	<130	<830	<2.0	0.11	0.23	0.062	0.059	0.056	<0.040	<0.010	<0.020	0.0070 J
Benzo(k)fluoranthene	None	140	<770	<2.0	0.12	0.047	0.092	0.041	0.05	<0.040	<0.010	<0.020	<0.020
Chrysene	0.2	290	1600	<2.0	0.52	0.35	0.42	0.33	0.29	0.16	0.13	0.21	0.1
Dibenz(a,h)anthracene	None	<140	<880	---	<0.041	<0.041	<0.041	<0.04	<0.041	<0.040	<0.0091	<0.020	<0.0044
Dibenzofuran	None	---	---	---	---	---	---	---	---	---	---	---	0.42
Fluoranthene	400	790	4400	6.6	5.1	4.4	4.5	4.4	3.7	2.9	2.5	3.8	1.8
Fluorene	400	410	2100	11	17.7	18.6	19.7	20.4	14.2	15.2	11.1	20.9	11
Indeno(1,2,3-cd)pyrene	None	<110	<680	<2.0	0.076	<0.041	0.046	0.04	<0.041	<0.040	<0.010	<0.020	0.0052 J
Naphthalene	100	1400	4700	380	512	541	702	676	438	501	375	691	246
Phenanthrene	None	1900	10000	35	29.9	32.8	28.6	30	23.2	21.7	19.4	33.4	13.9
Pyrene	250	1000	5300	8.6	5.7	5.9	5.3	5	4.6	3.3	2.8	3.7	2.1

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table 2, MW-9

Parameters	NR 140 Enforcement Standard	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9
		11/16/2004	11/15/2005	8/13/2008	7/22/2009	4/22/2010	10/20/2010	4/14/2011	11/4/2011	8/22/2012	5/16/2013	12/17/2014
VOC												
Acetone	9,000	---	---	<2,500	<2,500	<1,000	<1,000	<2,500	<1250	<625	<500	<100
Benzene	5	54,000	29,000	24,700	20,600	8,990	16,900	11,200	6,520	10,700	9670	12300
Bromobenzene	None	---	<200	<250	<250	<100	<100	<100	<50	<4.3	<11.6	<1.3
2-Butanone (MEK)	4000	---	---	<1,000	<1,000	<400	<400	<400	<200	<100	<125	<25.0
Chloroethane	400	---	<240	<250	<250	<100	<100	<100	<50	<10.8	<25.0	<2.4
Chloroform	6	---	<92	<250	<250	<100	<100	<100	<50	<7.2	<13.6	<1.6
Chloromethane	30	---	<60	<250	<1,000	<400	<400	<400	<200	<20.6	<100	<3.4
Ethylbenzene	700	870	530	565	449	266	235	386	127	221	489	426
Isopropylbenzene (Cumene)	None	---	<150	<250	<250	<100	<100	<100	<50	<3.8	<25.0	10.6
p-Isopropyltoluene	None	---	<170	<250	<250	<100	<100	<100	<50	<4.3	<25.0	34.4
Naphthalene	100	---	340	<1,000	<1,000	<400	<400	501	<200	<3.4	1080	888
n-Propylbenzene	None	---	<200	<250	<250	<100	<100	<100	<50	<3.9	<25.0	5.1 J
Styrene	100	---	<220	<250	<250	<100	<100	<100	<50	<3.0	104	161
Toluene	800	13000	6700	1850	2170	1310	571	2800	526	343	3660	6400
1,2,4-Trimethylbenzene	480 ^a	---	<240	<250	<250	<100	<100	<100	<50	<3.6	114	85.5
1,3,5-Trimethylbenzene	480 ^a	---	<210	<250	<250	<100	<100	<100	<50	<4.4	<25.0	31.8
m&p-Xylene	2,000 ^b	2700	2200	673	800	578	440	968	245	187	---	---
o-Xylene	2,000 ^b	780	420	<250	<250	164	111	240	63.5	64.9	---	---
Xylene(Total)	2,000 ^b	---	---	---	---	---	---	---	---	---	1820	1720
PAH												
1-Methylnaphthalene	None	100	42	---	---	---	---	---	---	---	---	99.3
2-Chloronaphthalene	None	---	---	---	---	---	---	---	---	---	---	0.14
2-Methylnaphthalene	None	110	44	---	---	---	---	---	---	---	---	146
Acenaphthene	None	100	39	49.9	40.9	49.9	30.8	184	53.3	29.1	224	106
Acenaphthylene	None	<19	1.6	1.1	<0.82	1.2	0.046	9.6	1.7	0.53	3.6	1.9
Anthracene	3,000	<18	8.4	4.7	5.8	5.8	4.3	68	11.1	5	20.7	9.4
Benzo(a)anthracene	None	<20	<1.7	0.75	<0.82	0.71	0.54	43.5	4.6	0.58	4.2	0.36
Benzo(a)pyrene	0.2	<18	<1.9	0.38	<0.82	0.34	0.29	35.7	4	0.35	3.4	0.17
Benzo(b)fluoranthene	0.2	<18	<1.7	0.34	<0.82	0.31	0.25	28.2	3.1	0.27	2.6	0.14
Benzo(g,h,i)perylene	None	<21	<2.0	0.18	<0.82	0.089	0.13	16.3	1.7	0.14	1.4	0.055
Benzo(k)fluoranthene	None	<19	<2.0	0.14	<0.82	0.13	0.085	10.5	1.1	0.089	0.87	0.044
Chrysene	0.2	<16	<2.0	0.64	<0.82	0.48	0.46	36.2	4	0.51	3.8	0.35
Dibenz(a,h)anthracene	None	<22	---	<0.041	<0.82	<0.041	<0.04	4.1	0.42	<0.0093	0.34	0.014 J
Dibenzofuran	None	---	---	---	---	---	---	---	---	---	---	0.96
Fluoranthene	400	<16	4.8	3.9	3.1	3.7	3.2	84.6	13.1	3.7	17.4	3.1
Fluorene	400	31	12	13.7	10.8	16.8	8.9	70.5	17.8	8.4	59.9	26.2
Indeno(1,2,3-cd)pyrene	None	<17	<2.0	0.13	<0.82	0.071	0.094	11.5	1.2	0.099	1	0.040 J
Naphthalene	100	310	160	108	132	100	35.9	348	139	27.7	1160	465
Phenanthrene	None	78	33	26.7	23.5	30.6	30.1	232	48.6	26	104	33.5
Pyrene	250	<16	6.3	5	4.2	4.8	4.1	121	16.5	4.4	22.1	4

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table 2, MW-10

Parameters	NR 140 Enforcement Standard	MW-10	MW-10	MW-10	MW-10 DUP	MW-10	MW-10 DUP	MW-10	MW-10	MW-10 DUP	MW-10	MW-10	MW-10	MW-10	MW-10
		11/16/2004	11/15/2005	8/12/2008	8/12/2008	7/22/2009	7/22/2009	4/21/2010	10/20/2010	10/20/2010	4/14/2011	11/4/2011	8/21/2012	5/16/2013	12/15/2014
VOC															
Acetone	9,000	---	---	<500	<500	<20	<20	<20	<500	<500	<625	<1250	<625	<50.0	<200
Benzene	5	9,900	13,000	7,160	7,840	270	252	6,010	6,890	7,290	2,330	4,830	3,860	2580	6300
Bromobenzene	None	---	<100	<50	<50	<2.0	<2.0	<2.0	<50	<50	<25	<50	<4.3	<1.2	<2.6
2-Butanone (MEK)	4000	---	---	<200	<200	<8.0	<8.0	<8.0	<200	<200	<100	<200	<100	<12.5	<50.0
Chloroethane	400	---	<120	<50	<50	<2.0	<2.0	<2.0	<50	<50	<25	<50	<10.8	<2.5	<5.4
Chloroform	6	---	<46	<50	<50	<2.0	<2.0	<2.0	<50	<50	<25	<50	<7.2	<1.4	<3.2
Chloromethane	30	---	<30	<50	<50	<8.0	<8.0	<8.0	<200	<200	<100	<200	<20.6	<10.0	<6.8
Ethylbenzene	700	340	240	158	199	6.1	6.9	206	150	154	105	107	<4.0	23.6	50
Isopropylbenzene (Cumene)	None	---	<74	<50	<50	<2.0	<2.0	5.2	<50	<50	<25	<50	<3.8	6.6	<10.0
p-Isopropyltoluene	None	---	<84	<50	<50	<2.0	<2.0	8.3	<50	<50	<25	<50	<4.3	<2.5	<10.0
Naphthalene	100	---	240	<200	<200	<8.0	<8.0	117	<200	<200	<100	<200	<3.4	<10.0	<40.0
n-Propylbenzene	None	---	<100	<50	<50	<2.0	<2.0	<2.0	<50	<50	<25	<50	<3.9	<2.5	<10.0
Styrene	100	---	<110	<50	<50	<2.0	<2.0	44.1	<50	<50	25	<50	<3.0	<1.2	<1.4
Toluene	800	34	5100	333	1280	18.4	19.9	1600	1300	1450	1070	1040	<3.8	29.1	247
1,2,4-Trimethylbenzene	480 ^b	---	<120	<50	55.2	2	<2.0	36.7	<50	<50	<25	<50	<3.6	7.9	<10.0
1,3,5-Trimethylbenzene	480 ^b	---	<100	<50	<50	<2.0	<2.0	13.6	<50	<50	<25	<50	<4.4	<2.5	<10.0
m&p-Xylene	2,000 ^b	<37	770	<100	262	7.7	7.9	655	381	440	376	305	<5.5	---	---
o-Xylene	2,000 ^b	100	180	64.1	120	3.6	3.6	172	119	130	92.8	86.4	<5.2	---	---
Xylene(Total)	2,000 ^b	---	---	---	---	---	---	---	---	---	---	---	---	31.5	24.3 J
PAH															
1-Methylnaphthalene	None	84	41	---	---	---	---	---	---	---	---	---	---	---	36.9
2-Chloronaphthalene	None	---	---	---	---	---	---	---	---	---	---	---	---	---	0.048
2-Methylnaphthalene	None	5	18	---	---	---	---	---	---	---	---	---	---	---	2.7
Acenaphthene	None	75	38	44	40.2	2.4	2.8	35.1	47.3	48.4	15.9	41.4	33.3	19.3	30.6
Acenaphthylene	None	<1.9	2.9	0.9	0.88	<0.042	0.082	0.99	0.6	0.83	0.52	0.81	0.52	0.32	0.44
Anthracene	3,000	4.1	8.6	1.6	1.7	0.19	0.22	2.1	2.1	2.9	1.5	2.3	1.5	0.71	1
Benzo(a)anthracene	None	<2.0	3.9	1.1	1.1	0.11	0.11	0.46	0.55	0.41	0.31	0.4	0.24	0.23	0.22
Benzo(a)pyrene	0.2	<1.8	2.7	1.1	0.98	0.11	0.1	0.31	0.51	0.29	0.19	0.36	0.27	0.31	0.25
Benzo(b)fluoranthene	0.2	<1.8	<1.7	0.91	0.86	0.23	0.22	<0.30	0.37	0.22	0.16	0.29	0.2	0.28	0.18
Benzo(g,h,i)perylene	None	<2.1	<2.0	0.66	0.61	0.25	0.24	0.088	0.27	0.15	0.088	0.19	0.15	0.16	0.15
Benzo(k)fluoranthene	None	<1.9	<2.0	0.4	0.36	<0.042	<0.040	0.12	0.15	0.089	0.059	0.095	0.077	0.099	0.073
Chrysene	0.2	<1.6	4.5	1.2	1.1	0.097	0.11	0.36	0.54	0.39	0.29	0.38	0.25	0.24	0.23
Dibenz(a,h)anthracene	None	<2.2	---	<0.041	<0.041	<0.042	<0.040	<0.040	0.067	<0.04	<0.41	<0.41	<0.0092	<0.020	0.029 J
Dibenzofuran	None	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2
Fluoranthene	400	5.3	11	3.5	3.2	0.26	0.27	1.6	2.6	2.3	1.3	1.9	1.2	0.79	0.77
Fluorene	400	18	11	9.5	9.1	0.55	0.66	8.5	11.6	10.9	4.2	9.1	6.7	3.2	4.4
Indeno(1,2,3-cd)pyrene	None	<1.7	<2.0	0.47	0.43	0.048	0.048	0.069	0.18	0.1	0.064	0.13	0.098	0.12	0.099
Naphthalene	100	36	110	30.9	32.6	1.9	2.2	73.1	66.4	61.6	42.4	87.9	2.5	5.6	14.7
Phenanthrene	None	31	30	13.6	12.2	0.61	0.77	9.4	12.6	13.4	5.6	8.8	7	2.7	4.3
Pyrene	250	6.1	15	4.6	4.3	0.37	0.4	2	3.5	3.1	1.9	2.4	1.5	0.85	1.1

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table 2, MW-11

Parameters	NR 140 Enforcement Standard	MW-11	MW-11	MW-11 DUP	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11
		11/16/2004	11/15/2005	11/15/2005	8/12/2008	7/22/2009	4/22/2010	10/20/2010	4/14/2011	11/4/2011	8/21/2012	5/17/2013	12/16/2014
VOC													
Acetone	9,000	---	---	---	<10	<10	<10	<10	<25	<25	<12.5	<10.0	<10.0
Benzene	5	0.95	1.4	1.4	2.5	3.4	<1	<1	<1	2.5	2.6	<0.24	0.22 J
Bromobenzene	None	---	<0.82	<0.82	<1	<1	<1	<1	<1	<1	<0.086	<0.23	<0.13
2-Butanone (MEK)	4000	---	---	---	<4	<4	<4	<4	<4	<4	<2.0	<2.5	<2.5
Chloroethane	400	---	<0.97	<0.97	<1	<1	<1	<1	<1	<1	<0.22	<0.50	<0.24
Chloroform	6	---	<0.37	<0.37	<1	<1	<1	<1	<1	<1	<0.14	<0.27	<0.16
Chloromethane	30	---	0.25	<0.24	<1	<4	<4	<4	<4	<4	<0.41	<2.0	<0.34
Ethylbenzene	700	0.56	0.91	1.0	1.2	3.5	<1	<1	<1	<1	3.2	<0.24	<0.16
Isopropylbenzene (Cumene)	None	---	<0.59	<0.59	<1	<1	<1	<1	<1	<1	<0.076	<0.50	<0.50
p-Isopropyltoluene	None	---	<0.67	<0.67	<1	<1	<1	<1	<1	<1	<0.086	<0.50	<0.50
Naphthalene	100	---	29	33	25.1	13.8	<4	<4	<4	7.6	59.9	<2.0	3.7 J
n-Propylbenzene	None	---	<0.81	<0.81	<1	<1	<1	<1	<1	<1	<0.078	<0.50	<0.50
Styrene	100	---	<0.86	<0.86	<1	<1	<1	<1	<1	<1	<0.060	<0.24	<0.063
Toluene	800	<3.6	<0.67	<0.67	1.1	<1	<1	<1	<1	<1	<0.077	<0.23	<0.11
1,2,4-Trimethylbenzene	480 ^a	---	<2.9	<3.0	1.7	3	<1	<1	1.8	1.2	4.2	1.3	0.93 J
1,3,5-Trimethylbenzene	480 ^a	---	<0.83	<0.83	<1	<1	<1	<1	<1	<1	<0.087	<0.50	<0.50
m&p-Xylene	2,000 ^b	1.7	<1.8	<1.8	<2	<2	<2	<2	<2	<2	<0.11	---	---
o-Xylene	2,000 ^b	3.9	1.4	1.5	1.5	1.8	<1	<1	1.4	<1	2.7	---	---
Xylene(Total)	2,000 ^b	---	---	---	---	---	---	---	---	---	---	<0.72	<0.40
PAH													
1-Methylnaphthalene	None	10	9.4	9.9	---	---	---	---	---	---	---	---	6.6
2-Chloronaphthalene	None	---	---	---	---	---	---	---	---	---	---	---	<0.0029
2-Methylnaphthalene	None	1.3	1.2	1.2	---	---	---	---	---	---	---	---	0.87
Acenaphthene	None	8.4	8.7	9.6	9.9	11.2	4.4	4.4	1.8	7.8	13.5	2	9.4
Acenaphthylene	None	<0.39	0.1	0.11	0.15	<0.041	<0.041	<0.040	<0.041	0.06	0.11	<0.021	0.066
Anthracene	3,000	<0.35	0.12	0.13	0.12	0.14	0.071	0.044	<0.041	0.091	0.14	<0.021	0.1
Benzo(a)anthracene	None	<0.39	0.017	0.018	<0.041	<0.041	<0.041	<0.040	<0.041	<0.041	<0.0082	<0.021	<0.020
Benzo(a)pyrene	0.2	<0.36	0.019	<0.019	<0.041	0.044	<0.041	<0.040	<0.041	<0.041	<0.010	<0.0021	<0.0030
Benzo(b)fluoranthene	0.2	<0.36	<0.017	<0.017	<0.041	<0.041	<0.31	<0.040	<0.041	<0.041	<0.010	<0.021	<0.0022
Benzo(g,h,i)perylene	None	<0.41	<0.020	<0.020	<0.041	<0.041	<0.041	<0.040	<0.041	<0.041	<0.010	<0.021	<0.0025
Benzo(k)fluoranthene	None	<0.39	<0.020	<0.020	<0.041	<0.041	<0.041	<0.040	<0.041	<0.041	<0.0092	<0.021	<0.020
Chrysene	0.2	<0.33	<0.020	<0.020	<0.041	<0.041	<0.041	<0.040	<0.041	<0.041	<0.0092	<0.021	<0.020
Dibenz(a,h)anthracene	None	<0.44	---	---	<0.041	<0.041	<0.041	<0.040	<0.041	<0.041	<0.0092	<0.021	<0.0044
Dibenzofuran	None	---	---	---	---	---	---	---	---	---	---	---	0.032 J
Fluoranthene	400	<0.33	<0.059	0.059	0.044	0.12	<0.041	<0.040	<0.041	<0.041	0.058	<0.0031	0.029 J
Fluorene	400	1.2	0.73	0.79	2.4	1.8	0.78	0.69	0.33	1.2	2.3	0.33	2
Indeno(1,2,3-cd)pyrene	None	<0.34	<0.020	<0.020	<0.041	<0.041	<0.041	<0.040	<0.041	<0.041	<0.010	<0.021	<0.0023
Naphthalene	100	19	17	18	13.9	7.1	0.92	0.64	0.49	4.8	29.8	0.27	2.3
Phenanthrene	None	1	0.39	0.46	0.9	0.87	0.23	0.31	0.18	0.74	1.4	0.17	1.2
Pyrene	250	<0.33	0.085	0.089	0.049	0.14	0.043	0.042	<0.041	<0.041	0.042	<0.0031	0.036 J

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table 2, MW-12

Parameters	NR 140 Enforcement Standard	MW-12	MW-12	MW-12	MW-12
		11/16/2004	11/14/2005	8/12/2008	12/15/2014
VOC					
Acetone	9,000	---	---	<10	<10.0
Benzene	5	4,000	4,100	1,730	0.71 J
Bromobenzene	None	---	<20	<1	<0.13
2-Butanone (MEK)	4000	---	---	<4	<2.5
Chloroethane	400	---	<24	<1	<0.27
Chloroform	6	---	<9.2	<1	<0.16
Chloromethane	30	---	<6.0	<1	<0.34
Ethylbenzene	700	<10	<14	3.3	<0.16
Isopropylbenzene (Cumene)	None	---	<15	1.8	1.6
p-Isopropyltoluene	None	---	<17	<1	<0.50
Naphthalene	100	---	<18	<4	2.1 J
n-Propylbenzene	None	---	<20	<1	<0.50
Styrene	100	---	<22	<1	<0.069
Toluene	800	<8.9	<17	<1	0.12 J
1,2,4-Trimethylbenzene	480 ^a	---	<24	5.5	3.3
1,3,5-Trimethylbenzene	480 ^a	---	<21	<1	<0.50
m&p-Xylene	2,000 ^b	<19	<45	<2	---
o-Xylene	2,000 ^b	<9	<21	1.3	---
Xylene(Total)	2,000 ^b	---	---	---	<0.40
PAH					
1-Methylnaphthalene	None	53	43	---	11.4
2-Chloronaphthalene	None	---	---	---	<0.0029
2-Methylnaphthalene	None	12	1.8	---	<0.0081
Acenaphthene	None	51	46	39	32
Acenaphthylene	None	<3.1	<0.86	0.39	0.2
Anthracene	3,000	3.9	4	2.6	1.7
Benzo(a)anthracene	None	<3.1	<1.7	0.076	0.054
Benzo(a)pyrene	0.2	<2.9	<1.9	<0.041	<0.0030
Benzo(b)fluoranthene	0.2	<2.9	<1.7	<0.041	<0.0022
Benzo(g,h,i)perylene	None	<3.3	<2.0	<0.041	<0.0025
Benzo(k)fluoranthene	None	<3.1	<2.0	<0.041	<0.020
Chrysene	0.2	<2.6	<2.0	0.11	0.055
Dibenz(a,h)anthracene	None	<3.5	---	<0.041	<0.0044
Dibenzofuran	None	---	---	---	0.49
Fluoranthene	400	3	<1.6	1.3	1.2
Fluorene	400	11	8.7	9.8	7
Indeno(1,2,3-cd)pyrene	None	<2.7	2	<0.041	<0.0023
Naphthalene	100	13	<4.9	1.1	0.75
Phenanthrene	None	18	<15	14.6	6.5
Pyrene	250	3.5	<1.8	1.4	1.4

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adj

Table 2, MW-13

Parameters	NR 140 Enforcement Standard	MW-13	MW-13	MW-13	MW-13	MW-13
		11/15/2005	10/24/2006	8/13/2008	11/3/2011	12/17/2014
VOC						
Acetone	9,000	---	<5.0	<10	<25	<10.0
Benzene	5	3.8	<1.0	<1	<1	<0.15
Bromobenzene	None	<0.82	<1.0	<1	<1	<0.13
2-Butanone (MEK)	4000	---	<5.0	<4	<4	<2.5
Chloroethane	400	<0.97	<1.0	<1	<1	<0.24
Chloroform	6	<0.37	<1.0	<1	<1	<0.16
Chloromethane	30	0.6	<1.0	<1	<4	<0.34
Ethylbenzene	700	<0.54	<1.0	<1	<1	<0.16
Isopropylbenzene (Cumene)	None	<0.59	<1.0	<1	<1	<0.50
p-Isopropyltoluene	None	<0.67	<1.0	<1	<1	<0.50
Naphthalene	100	<0.74	<1.0	<4	<4	<2.0
n-Propylbenzene	None	<0.81	<1.0	<1	<1	<0.50
Styrene	100	<0.86	<1.0	<1	<1	<0.063
Toluene	800	<0.67	<1.0	<1	<1	<0.11
1,2,4-Trimethylbenzene	480 ^a	<0.97	<1.0	<1	<1	<0.50
1,3,5-Trimethylbenzene	480 ^a	<0.83	<1.0	<1	<1	<0.50
m&p-Xylene	2,000 ^b	<1.8	<2.0	<2	<2	---
o-Xylene	2,000 ^b	<0.83	<1.0	<1	<1	---
Xylene(Total)	2,000 ^b	---	---	---	---	<0.40
PAH						
1-Methylnaphthalene	None	0.055	<0.04	---	---	0.12
2-Chloronaphthalene	None	---	<0.04	---	---	<0.0029
2-Methylnaphthalene	None	0.045	<0.04	---	---	0.15
Acenaphthene	None	<0.0086	<0.04	<0.04	<0.042	0.1
Acenaphthylene	None	<0.0086	<0.04	<0.04	<0.042	0.0040 J
Anthracene	3,000	<0.012	<0.04	<0.04	<0.042	0.0094 J
Benzo(a)anthracene	None	<0.017	<0.04	<0.04	<0.042	<0.020
Benzo(a)pyrene	0.2	<0.019	<0.04	<0.04	<0.042	0.012 J
Benzo(b)fluoranthene	0.2	<0.017	<0.04	<0.04	<0.042	0.0087 J
Benzo(g,h,i)perylene	None	<0.020	<0.04	<0.04	<0.042	<0.0025
Benzo(k)fluoranthene	None	<0.020	<0.04	<0.04	<0.042	<0.020
Chrysene	0.2	<0.020	<0.04	<0.04	<0.042	<0.020
Dibenz(a,h)anthracene	None	---	---	<0.04	<0.042	<0.0044
Dibenzofuran	None	---	<0.04	---	---	0.0058 J
Fluoranthene	400	<0.016	<0.04	<0.04	<0.042	0.010 J
Fluorene	400	0.014	<0.04	<0.04	<0.042	0.033 J
Indeno(1,2,3-cd)pyrene	None	<0.020	<0.04	<0.04	<0.042	<0.0023
Naphthalene	100	0.34	<0.04	<0.04	<0.042	0.52
Phenanthrene	None	0.022	<0.04	<0.04	<0.042	0.047
Pyrene	250	<0.015	<0.04	<0.04	<0.042	0.0096 J

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporti

Table 2, MW-14

Parameters	NR 140 Enforcement Standard	MW-14	MW-14	MW-14	MW-14	MW-14
		11/16/2005	10/24/2006	8/12/2008	11/3/2011	12/16/2014
VOC						
Acetone	9,000	---	<5.0	<10	<25	<10.0
Benzene	5	<0.41	<1.0	<1	<1	<0.15
Bromobenzene	None	<0.82	<1.0	<1	<1	<0.13
2-Butanone (MEK)	4000	---	<5.0	<4	<4	<2.5
Chloroethane	400	<0.97	<1.0	<1	<1	<0.24
Chloroform	6	<0.37	<1.0	<1	<1	<0.16
Chloromethane	30	0.56	<1.0	<1	<4	<0.34
Ethylbenzene	700	<0.54	<1.0	<1	<1	<0.16
Isopropylbenzene (Cumene)	None	<0.59	<1.0	<1	<1	<0.50
p-Isopropyltoluene	None	<0.67	<1.0	<1	<1	<0.50
Naphthalene	100	0.93	<1.0	<4	<4	<2.0
n-Propylbenzene	None	<0.81	<1.0	<1	<1	<0.50
Styrene	100	<0.86	<1.0	<1	<1	<0.063
Toluene	800	<0.67	<1.0	<1	<1	<0.11
1,2,4-Trimethylbenzene	480 ^a	<0.97	<1.0	<1	<1	<0.50
1,3,5-Trimethylbenzene	480 ^a	<0.83	<1.0	<1	<1	<0.50
m&p-Xylene	2,000 ^b	<1.8	<2.0	<2	<2	---
o-Xylene	2,000 ^b	<0.83	<1.0	<1	<1	---
Xylene(Total)	2,000 ^b	---	---	---	---	<0.40
PAH						
1-Methylnaphthalene	None	<0.011	<0.04	---	---	<0.0045
2-Chloronaphthalene	None	---	<0.04	---	---	<0.0029
2-Methylnaphthalene	None	<0.012	<0.04	---	---	<0.0081
Acenaphthene	None	<0.0086	<0.04	<0.04	<0.041	<0.0046
Acenaphthylene	None	<0.0086	<0.04	<0.04	<0.041	<0.0021
Anthracene	3,000	<0.012	<0.04	<0.04	<0.041	<0.0024
Benzo(a)anthracene	None	<0.017	<0.04	<0.04	<0.041	<0.020
Benzo(a)pyrene	0.2	<0.019	<0.04	<0.04	<0.041	<0.0030
Benzo(b)fluoranthene	0.2	<0.017	<0.04	<0.04	<0.041	<0.0022
Benzo(g,h,i)perylene	None	<0.020	<0.04	<0.04	<0.041	<0.0025
Benzo(k)fluoranthene	None	<0.020	<0.04	<0.04	<0.041	<0.020
Chrysene	0.2	<0.020	<0.04	<0.04	<0.041	<0.020
Dibenz(a,h)anthracene	None	---	---	<0.04	<0.041	<0.0044
Dibenzofuran	None	---	<0.04	---	---	<0.0025
Fluoranthene	400	<0.016	0.057	<0.04	<0.041	<0.0031
Fluorene	400	<0.0096	<0.04	<0.04	<0.041	<0.0021
Indeno(1,2,3-cd)pyrene	None	<0.020	<0.04	<0.04	<0.041	<0.0023
Naphthalene	100	0.023	<0.04	0.056	<0.041	<0.014
Phenanthrene	None	<0.012	0.073	<0.04	<0.041	<0.0029
Pyrene	250	<0.015	0.068	<0.04	<0.041	<0.0073

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporti

Table 2, MW-15

Parameters	NR 140 Enforcement Standard	MW-15	MW-15 DUP	MW-15	MW-15	MW-15 DUP	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15
		11/14/2005	11/14/2005	10/24/2006	8/12/2008	8/12/2008	7/22/2009	4/21/2010	10/20/2010	4/14/2011	11/4/2011	8/22/2012	5/16/2013	12/15/2014
VOC														
Acetone	9,000	---	---	<5.0	<10	<10	<10	<10	<10	<25	<25	<12.5	<10.0	<10.0
Benzene	5	23	21	23.2	51.5	48.6	50.7	15.7	44.3	83	30	53.8	34.3	<0.15
Bromobenzene	None	<0.82	<0.82	<1.0	<1	<1	<1	<1	<1	<1	<1	<0.086	<0.23	<0.13
2-Butanone (MEK)	4000	---	---	<5.0	<4	<4	<4	<4	<4	<4	<4	<2.0	<2.5	<2.5
Chloroethane	400	<0.97	<0.97	<1.0	<1	<1	<1	<1	<1	<1	<1	<0.22	<0.50	<0.27
Chloroform	6	<0.37	<0.37	<1.0	<1	<1	<1	<1	<1	<1	<1	<0.14	<0.27	<0.16
Chloromethane	30	<0.24	<0.24	<1.0	<1	1.1	<4	<4	<4	<4	<4	<0.41	<2.0	<0.34
Ethylbenzene	700	6.8	5	5	<1	<1	4.7	<1	<1	3.5	<1	<0.081	<0.24	<0.16
Isopropylbenzene (Cumene)	None	4.3	4	4.4	1.0	1.0	3.1	<1	<1	2.2	<1	<0.076	2	<0.50
p-Isopropyltoluene	None	<0.67	<0.67	<1.0	<1	<1	<1	<1	<1	<1	<1	<0.086	<0.50	<0.50
Naphthalene	100	110	90	79.7	4.9	5.0	63.4	11.4	7.2	12.7	7.9	6.3	8.3	<2.0
n-Propylbenzene	None	1.6	1.4	1.5	<1	<1	1	<1	<1	<1	<1	<0.078	<0.50	<0.50
Styrene	100	<0.86	<0.86	<1.0	<1	<1	<1	<1	<1	<1	<1	<0.060	<0.24	<0.069
Toluene	800	<0.67	<0.67	<1.0	<1	<1	<1	<1	<1	<1	<1	<0.077	<0.23	<0.11
1,2,4-Trimethylbenzene	480 ^a	25	23	17.7	1.6	1.7	14	2.4	1.7	9.5	1.9	2.5	2.1	<0.50
1,3,5-Trimethylbenzene	480 ^a	3.6	2.9	1.7	<1	<1	<1	<1	<1	<1	<1	<0.087	<0.50	<0.50
m&p-Xylene	2,000 ^b	<1.8	<1.8	<2.0	<2	<2	<2	<2	2.3	<2	<2	<0.11	---	---
o-Xylene	2,000 ^b	2.8	2.2	2.4	1.1	1.1	2.3	<1	<1	1.1	<1	<0.10	---	---
Xylene(Total)	2,000 ^b	---	---	---	---	---	---	---	---	---	---	---	<0.72	<0.40
PAH														
1-Methylnaphthalene	None	45	57	38.4	---	---	---	---	---	---	---	---	---	2.1
2-Chloronaphthalene	None	---	---	0.075	---	---	---	---	---	---	---	---	---	0.12
2-Methylnaphthalene	None	17	20	9.4	---	---	---	---	---	---	---	---	---	<0.0081
Acenaphthene	None	43	51	49.6	52.4	49.9	56.2	89.7	97	33.8	63.3	54.1	42	15.3
Acenaphthylene	None	<1.7	0.71	<0.04	0.88	0.74	<0.042	2.1	1.5	0.22	1.6	1.5	0.46	0.46
Anthracene	3,000	3.5	4.2	2.8	0.85	0.89	1.5	1	1.1	0.79	1.3	0.75	0.6	0.83
Benzo(a)anthracene	None	0.27	<0.33	0.23	0.18	0.18	0.16	0.19	0.15	0.086	0.22	0.25	0.64	0.54
Benzo(a)pyrene	0.2	0.11	<0.39	<0.04	0.053	0.047	<0.042	0.061	<0.04	<0.041	0.12	0.19	0.61	0.46
Benzo(b)fluoranthene	0.2	0.054	<0.33	0.16	0.049	0.048	<0.042	<0.31	<0.04	<0.041	0.086	0.13	0.44	0.34
Benzo(g,h,i)perylene	None	0.054	<0.41	<0.04	<0.041	<0.041	<0.042	<0.041	<0.04	<0.041	<0.041	0.058	0.22	0.16
Benzo(k)fluoranthene	None	0.063	<0.41	<0.04	<0.041	<0.041	<0.042	<0.041	<0.04	<0.041	<0.041	0.061	0.2	0.13
Chrysene	0.2	0.22	<0.40	0.19	0.21	0.2	0.14	0.17	0.13	0.072	0.2	0.24	0.61	0.53
Dibenz(a,h)anthracene	None	---	---	---	<0.041	<0.041	<0.042	<0.041	<0.04	<0.041	<0.041	<0.0098	0.049	0.038 J
Dibenzofuran	None	---	---	0.61	---	---	---	---	---	---	---	---	---	0.44
Fluoranthene	400	<3.3	2.2	1.9	1.5	1.5	1	1.3	1.3	0.68	1.3	1.2	1.3	2.1
Fluorene	400	7.3	10	10.2	9.9	9.6	10.6	16.5	15.8	6.7	14.6	9.6	6.1	2.5
Indeno(1,2,3-cd)pyrene	None	0.037	<0.40	<0.04	<0.041	<0.041	<0.042	<0.041	<0.04	<0.041	<0.041	0.044	0.16	0.13
Naphthalene	100	83	93	49.8	2.8	2.8	39.4	7	5.7	6	4.2	2.4	2.7	0.17
Phenanthrene	None	16	22	14.9	7.6	7.8	10.2	7.5	5.6	4.7	5.2	0.62	1	0.097
Pyrene	250	<3.1	2.6	2.5	1.6	1.7	1.2	1.3	1.4	0.81	1.5	1.3	1.4	2.6

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table 2, MW-16

Parameters	NR 140 Enforcement Standard	MW-16	MW-16	MW-16	MW-16	MW-16
		11/15/2005	10/24/2006	8/12/2008	4/21/2010	12/15/2014
VOC						
Acetone	9,000	---	<5.0	<10	<10	<10.0
Benzene	5	<0.41	<1.0	<1	<1	<0.15
Bromobenzene	None	<0.82	<1.0	<1	<1	<0.13
2-Butanone (MEK)	4000	---	<5.0	<4	<4	<2.5
Chloroethane	400	<0.97	<1.0	<1	<1	<0.27
Chloroform	6	<0.37	<1.0	<1	<1	<0.16
Chloromethane	30	0.53	<1.0	37.7	<4.0	<0.34
Ethylbenzene	700	<0.54	<1.0	<1	<1	<0.16
Isopropylbenzene (Cumene)	None	<0.59	<1.0	<1	<1	<0.50
p-Isopropyltoluene	None	<0.67	<1.0	<1	<1	<0.50
Naphthalene	100	<0.74	<1.0	<4	<4	<2.0
n-Propylbenzene	None	<0.81	<1.0	<1	<1	<0.50
Styrene	100	<0.86	<1.0	<1	<1	<0.069
Toluene	800	<0.67	<1.0	<1	<1	<0.11
1,2,4-Trimethylbenzene	480 ^a	<0.97	<1.0	<1	<1	<0.50
1,3,5-Trimethylbenzene	480 ^a	<0.83	<1.0	<1	<1	<0.50
m&p-Xylene	2,000 ^b	<1.8	<2.0	<2	<2	---
o-Xylene	2,000 ^b	<0.83	<1.0	<1	<1	---
Xylene(Total)	2,000 ^b	---	---	---	---	<0.40
PAH						
1-Methylnaphthalene	None	0.074	<0.04	---	---	<0.0045
2-Chloronaphthalene	None	---	<0.04	---	---	<0.0029
2-Methylnaphthalene	None	0.047	<0.04	---	---	<0.0081
Acenaphthene	None	0.042	<0.04	0.04	<0.041	<0.0046
Acenaphthylene	None	<0.0086	<0.04	<0.04	<0.041	<0.0021
Anthracene	3,000	0.023	<0.04	<0.04	<0.041	<0.0024
Benzo(a)anthracene	None	0.027	0.049	<0.04	<0.041	<0.020
Benzo(a)pyrene	0.2	0.021	<0.04	<0.04	<0.041	<0.0030
Benzo(b)fluoranthene	0.2	<0.017	0.17	<0.04	<0.31	<0.0022
Benzo(g,h,i)perylene	None	<0.020	0.26	<0.04	<0.041	<0.0025
Benzo(k)fluoranthene	None	<0.020	<0.04	<0.04	<0.041	<0.020
Chrysene	0.2	0.024	0.044	<0.04	<0.041	<0.020
Dibenz(a,h)anthracene	None	---	---	<0.04	<0.041	<0.0044
Dibenzofuran	None	---	<0.04	---	---	<0.0025
Fluoranthene	400	0.035	0.097	<0.04	<0.041	<0.0031
Fluorene	400	0.015	<0.04	<0.04	<0.041	<0.0021
Indeno(1,2,3-cd)pyrene	None	<0.020	<0.04	<0.04	<0.041	<0.0023
Naphthalene	100	0.36	<0.04	<0.04	<0.041	<0.014
Phenanthrene	None	0.054	0.075	<0.04	<0.041	<0.0029
Pyrene	250	0.059	0.079	<0.04	<0.041	<0.0073

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporti

Table 2, MW-17

Parameters	NR 140 Enforcement Standard	MW-17	MW-17	MW-17	MW-17
		11/15/2005	10/24/2006	8/13/2008	12/16/2014
VOC					
Acetone	9,000	---	<5.0	<10	<10.0
Benzene	5	<0.41	<1.0	<1	<0.15
Bromobenzene	None	<0.82	<1.0	<1	<0.13
2-Butanone (MEK)	4000	---	<5.0	<4	<2.5
Chloroethane	400	<0.97	<1.0	<1	<0.27
Chloroform	6	<0.37	<1.0	<1	<0.16
Chloromethane	30	<0.24	<1.0	<1	<0.34
Ethylbenzene	700	<0.54	<1.0	<1	<0.16
Isopropylbenzene (Cumene)	None	<0.59	<1.0	<1	<0.50
p-Isopropyltoluene	None	<0.67	<1.0	<1	<0.50
Naphthalene	100	<0.74	<1.0	<4	<2.0
n-Propylbenzene	None	<0.81	<1.0	<1	<0.50
Styrene	100	<0.86	<1.0	<1	<0.069
Toluene	800	<0.67	<1.0	<1	<0.11
1,2,4-Trimethylbenzene	480 ^a	<0.97	<1.0	<1	<0.50
1,3,5-Trimethylbenzene	480 ^a	<0.83	<1.0	<1	<0.50
m&p-Xylene	2,000 ^b	<1.8	<2.0	<2	---
o-Xylene	2,000 ^b	<0.83	<1.0	<1	---
Xylene(Total)	2,000 ^b	---	---	---	<0.40
PAH					
1-Methylnaphthalene	None	<0.011	<0.04	---	<0.0045
2-Chloronaphthalene	None	---	<0.04	---	<0.0029
2-Methylnaphthalene	None	<0.012	<0.04	---	<0.0081
Acenaphthene	None	0.017	0.056	<0.041	<0.0046
Acenaphthylene	None	<0.0086	<0.04	<0.041	<0.0021
Anthracene	3,000	0.015	<0.04	<0.041	<0.0024
Benzo(a)anthracene	None	<0.017	<0.04	<0.041	<0.020
Benzo(a)pyrene	0.2	<0.019	<0.04	<0.041	<0.0030
Benzo(b)fluoranthene	0.2	<0.017	<0.04	<0.041	<0.0022
Benzo(g,h,i)perylene	None	<0.020	<0.04	<0.041	<0.0025
Benzo(k)fluoranthene	None	<0.020	<0.04	<0.041	<0.020
Chrysene	0.2	<0.020	<0.04	<0.041	<0.020
Dibenz(a,h)anthracene	None	---	---	<0.041	<0.0044
Dibenzofuran	None	---	<0.04	---	<0.0025
Fluoranthene	400	0.023	<0.04	<0.041	<0.0031
Fluorene	400	<0.0096	<0.04	<0.041	<0.0021
Indeno(1,2,3-cd)pyrene	None	<0.020	<0.04	<0.041	<0.0023
Naphthalene	100	0.029	<0.04	0.051	<0.014
Phenanthrene	None	0.052	0.07	<0.041	<0.0029
Pyrene	250	0.037	<0.04	<0.041	<0.0073

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adj

**Table 2, MW-18
(Sealed in 2010)**

Parameters	NR 140 Enforcement Standard	MW-18	MW-18	MW-18	MW-18
		11/15/2005	10/24/2006	8/13/2008	10/21/2010
VOC					
Acetone	9,000	---	110	99.6	134
Benzene	5	4.1	4.1	3.5	3.6
Bromobenzene	None	<0.82	<1.0	<1	<1
2-Butanone (MEK)	4000	---	<5.0	<4	<4
Chloroethane	400	<0.97	<1.0	<1	<1
Chloroform	6	<0.37	<1.0	<1	<1
Chloromethane	30	0.33	<1.0	3.9	<1
Ethylbenzene	700	<0.54	<1.0	<1	<1
Isopropylbenzene (Cumene)	None	<0.59	<1.0	<1	<1
p-Isopropyltoluene	None	<0.67	<1.0	<1	<1
Naphthalene	100	0.89	<1.0	<4	<4
n-Propylbenzene	None	<0.81	<1.0	<1	<1
Styrene	100	<0.86	<1.0	<1	<1
Toluene	800	3.2	1.1	1.1	<1
1,2,4-Trimethylbenzene	480 ^a	<0.97	<1.0	<1	<1
1,3,5-Trimethylbenzene	480 ^a	<0.83	<1.0	<1	<1
m&p-Xylene	2,000 ^b	<1.8	<2.0	<2	<2
o-Xylene	2,000 ^b	<0.83	<1.0	<1	<1
Xylene(Total)	2,000 ^b	---	---	---	---
PAH					
1-Methylnaphthalene	None	0.17	0.22	---	---
2-Chloronaphthalene	None	---	<0.04	---	---
2-Methylnaphthalene	None	0.13	0.18	---	---
Acenaphthene	None	0.09	0.1	<0.041	<0.04
Acenaphthylene	None	0.013	<0.04	<0.041	<0.04
Anthracene	3,000	0.049	0.072	<0.041	<0.04
Benzo(a)anthracene	None	0.044	0.047	<0.041	<0.04
Benzo(a)pyrene	0.2	0.026	<0.04	<0.041	<0.04
Benzo(b)fluoranthene	0.2	0.019	0.15	<0.041	<0.04
Benzo(g,h,i)perylene	None	<0.020	<0.04	<0.041	<0.04
Benzo(k)fluoranthene	None	<0.020	<0.04	<0.041	<0.04
Chrysene	0.2	0.044	<0.04	<0.041	<0.04
Dibenz(a,h)anthracene	None	---	---	<0.041	<0.04
Dibenzofuran	None	---	0.042	---	---
Fluoranthene	400	0.09	0.18	0.064	0.043
Fluorene	400	0.059	0.064	<0.041	<0.04
Indeno(1,2,3-cd)pyrene	None	<0.020	<0.04	<0.041	<0.04
Naphthalene	100	0.13	0.21	0.21	0.15
Phenanthrene	None	0.21	0.43	0.086	0.063
Pyrene	250	0.16	0.21	0.077	0.05

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adj

**Table 2, MW-19
(Sealed in 2010)**

Parameters	NR 140 Enforcement Standard	MW-19	MW-19	MW-19
		11/14/2005	10/24/2006	8/12/2008
VOC				
Acetone	9,000	---	<5.0	<10
Benzene	5	<0.41	<1.0	<1
Bromobenzene	None	<0.82	<1.0	<1
2-Butanone (MEK)	4000	---	<5.0	<4
Chloroethane	400	<0.97	<1.0	<1
Chloroform	6	<0.37	<1.0	<1
Chloromethane	30	<0.24	<1.0	<1
Ethylbenzene	700	<0.54	<1.0	<1
Isopropylbenzene (Cumene)	None	<0.59	<1.0	<1
p-Isopropyltoluene	None	<0.67	<1.0	<1
Naphthalene	100	<0.74	<1.0	<4
n-Propylbenzene	None	<0.81	<1.0	<1
Styrene	100	<0.86	<1.0	<1
Toluene	800	<0.67	<1.0	<1
1,2,4-Trimethylbenzene	480^a	<0.97	<1.0	<1
1,3,5-Trimethylbenzene	480^a	<0.83	<1.0	<1
m&p-Xylene	2,000^b	<1.8	<2.0	<2
o-Xylene	2,000^b	<0.83	<1.0	<1
Xylene(Total)	2,000^b	---	---	---
PAH				
1-Methylnaphthalene	None	0.04	<0.04	---
2-Chloronaphthalene	None	---	<0.04	---
2-Methylnaphthalene	None	0.025	<0.04	---
Acenaphthene	None	0.045	<0.04	<0.041
Acenaphthylene	None	<0.0086	<0.04	<0.041
Anthracene	3,000	0.015	<0.04	<0.041
Benzo(a)anthracene	None	<0.017	<0.04	<0.041
Benzo(a)pyrene	0.2	<0.019	<0.04	<0.041
Benzo(b)fluoranthene	0.2	<0.017	<0.04	<0.041
Benzo(g,h,i)perylene	None	<0.020	<0.04	<0.041
Benzo(k)fluoranthene	None	<0.020	<0.04	<0.041
Chrysene	0.2	<0.020	<0.04	<0.041
Dibenz(a,h)anthracene	None	---	---	<0.041
Dibenzofuran	None	---	<0.04	---
Fluoranthene	400	0.021	<0.04	<0.041
Fluorene	400	0.012	<0.04	<0.041
Indeno(1,2,3-cd)pyrene	None	<0.020	<0.04	<0.041
Naphthalene	100	0.097	<0.04	<0.041
Phenanthrene	None	0.036	<0.04	<0.041
Pyrene	250	0.026	<0.04	<0.041

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of re

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and

Table 2, MW-20

Parameters	NR 140 Enforcement Standard	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20DUP	MW-20	MW-20
		11/14/2005	10/24/2006	8/13/2008	7/22/2009	4/21/2010	10/20/2010	4/14/2011	11/4/2011	8/22/2012	8/22/2012	5/16/2013	12/15/2014
VOC													
Acetone	9,000	---	<5.0	<100	<250	<50	<20	<25	<1250	<1250	<1250	<10.0	<1000
Benzene	5	3,800	5,830	16,000	2,770	378	15,500	106	14,700	10,400	10,300	142	23300
Bromobenzene	None	<41	<1.0	<10	<25	<5	<2	<1	<50	<8.6	<10.1	<0.23	<13.2
2-Butanone (MEK)	4000	---	<5.0	<40	<100	<20	<8	<4	<200	<200	<200	<2.5	<250
Chloroethane	400	<48	<1.0	<10	<25	<5	<2	<1	<50	<21.5	<21.5	<0.50	<26.8
Chloroform	6	<18	<1.0	<10	<25	<5	<2	<1	<50	<14.5	<14.5	<0.27	<16.1
Chloromethane	30	<12	<1.0	<10	<100	<5	<2	<4	<200	<41.3	<41.3	<2.0	<34.1
Ethylbenzene	700	43	10.1	30.4	<25	<5	42	1.1	127	<8.1	<8.1	<0.24	112
Isopropylbenzene (Cumene)	None	<30	6.7	<10	<25	<20	8.3	1.7	<50	<7.6	<7.6	3.1	<50.0
p-Isopropyltoluene	None	<34	<1.0	<10	<25	<5	<2	<1	<50	<8.6	<8.6	<0.50	<50.0
Naphthalene	100	280	41.1	<40	<100	<20	65.9	4.9	<200	<6.8	<6.8	<2.0	<200
n-Propylbenzene	None	<40	3.1	<10	<25	<5	3.7	<1	<50	<7.8	<7.8	1.2	<50.0
Styrene	100	<43	<1.0	<10	<25	<5	<2	<1	<50	<6.0	<6.0	<0.24	<6.9
Toluene	800	<34	<1.0	<10	<25	<5	<2	<1	<50	<7.7	<7.7	<0.23	33.9 J
1,2,4-Trimethylbenzene	480 ^a	<48	31	18.6	<25	7.8	38.4	8	<50	<7.1	<7.1	11.7	<50.0
1,3,5-Trimethylbenzene	480 ^a	<42	1.3	<10	<25	<5	<2	<1	<50	<8.7	<8.7	1	<50.0
m&p-Xylene	2,000 ^b	<90	<1.0	<20	<50	<10	4.9	<2	245	<11.0	<11.0	---	---
o-Xylene	2,000 ^b	<42	12.6	20	<25	<5	39.3	1.8	63.5	<10.5	<10.5	---	---
Xylene(Total)	2,000 ^b	---	---	---	---	---	---	---	---	---	---	<0.72	<40.4
PAH													
1-Methylnaphthalene	None	18	29.5	---	---	---	---	---	---	---	---	---	47.9
2-Chloronaphthalene	None	---	<0.04	---	---	---	---	---	---	---	---	---	0.046
2-Methylnaphthalene	None	1.4	1.5	---	---	---	---	---	---	---	---	---	<0.0081
Acenaphthene	None	14	27.1	55.4	33.5	36.2	74.6	23.7	61.8	52.4	52.4	31.5	38.2
Acenaphthylene	None	<0.86	<0.04	<0.04	<0.041	0.21	0.4	0.13	0.3	0.3	0.3	0.13	0.17
Anthracene	3,000	<1.2	0.2	0.17	0.21	0.2	0.41	0.24	0.18	0.41	0.41	0.24	0.11
Benzo(a)anthracene	None	<1.7	<0.04	<0.04	<0.041	<0.041	<0.04	<0.041	<0.043	<0.0082	<0.0082	<0.021	<0.020
Benzo(a)pyrene	0.2	<1.9	<0.04	<0.04	<0.041	<0.041	<0.04	<0.041	<0.043	<0.010	<0.010	<0.0021	<0.0030
Benzo(b)fluoranthene	0.2	<1.7	<0.04	<0.04	<0.041	<0.31	<0.04	<0.041	<0.043	<0.010	<0.010	<0.021	<0.0022
Benzo(g,h,i)perylene	None	<2.0	<0.04	<0.04	<0.041	<0.041	<0.04	<0.041	<0.043	<0.010	<0.010	<0.021	<0.0025
Benzo(k)fluoranthene	None	<2.0	<0.04	<0.04	<0.041	<0.041	<0.04	<0.041	<0.043	<0.0093	<0.0093	<0.021	<0.020
Chrysene	0.2	<2.0	<0.04	<0.04	<0.041	<0.041	<0.04	<0.041	<0.043	<0.0093	<0.0093	<0.021	<0.020
Dibenz(a,h)anthracene	None	---	---	<0.04	<0.041	<0.041	<0.04	<0.041	<0.043	<0.0093	<0.0093	<0.021	<0.0044
Dibenzofuran	None	---	0.19	---	---	---	---	---	---	---	---	---	0.14
Fluoranthene	400	<1.6	0.34	0.25	0.29	0.23	0.36	0.27	0.23	0.65	0.67	0.46	0.13
Fluorene	400	<0.96	3.3	3.5	2.4	2.6	6.7	1.9	4.1	4.1	4.1	1.9	3.5
Indeno(1,2,3-cd)pyrene	None	<2.0	<0.04	<0.04	<0.041	<0.041	<0.04	<0.041	<0.043	<0.010	<0.010	<0.021	<0.0023
Naphthalene	100	130	21.4	28.6	5.1	1.7	43.4	3.2	13.8	4.6	5.1	0.41	14.5
Phenanthrene	None	<1.2	1.2	0.95	1.1	1.1	1.9	1.3	0.6	1.8	1.9	1.5	0.44
Pyrene	250	<1.5	0.29	0.19	0.28	0.17	0.27	0.21	0.18	0.45	0.48	0.28	0.1

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table 2, MW-21

Parameters	NR 140 Enforcement Standard	MW-21	MW-21	MW-21	MW-21	MW-21
		11/15/2005	10/24/2006	8/13/2008	5/16/2013	12/16/2014
VOC						
Acetone	9,000	---	<5.0	<10	<10.0	<10.0
Benzene	5	<0.41	<1.0	<1	142	<0.15
Bromobenzene	None	<0.82	<1.0	<1	<0.23	<0.13
2-Butanone (MEK)	4000	---	<5.0	<4	<2.5	<2.5
Chloroethane	400	<0.97	<1.0	<1	<0.50	<0.24
Chloroform	6	0.39	<1.0	<1	<0.27	<0.16
Chloromethane	30	<0.24	<1.0	3.6	<2.0	<0.34
Ethylbenzene	700	<0.54	<1.0	<1	<0.24	<0.16
Isopropylbenzene (Cumene)	None	<0.59	<1.0	<1	3.1	<0.50
p-Isopropyltoluene	None	<0.67	<1.0	<1	<0.50	<0.50
Naphthalene	100	<0.74	<1.0	<4	<2.0	<2.0
n-Propylbenzene	None	<0.81	<1.0	<1	1.2	<0.50
Styrene	100	<0.86	<1.0	<1	<0.24	<0.063
Toluene	800	<0.67	<1.0	<1	<0.23	<0.11
1,2,4-Trimethylbenzene	480 ^a	<0.97	<1.0	<1	11.7	<0.50
1,3,5-Trimethylbenzene	480 ^a	<0.83	<1.0	<1	1	<0.50
m&p-Xylene	2,000 ^b	<1.8	<2.0	<2	---	---
o-Xylene	2,000 ^b	<0.83	<1.0	<1	---	---
Xylene(Total)	2,000 ^b	---	---	---	<0.72	<0.40
PAH						
1-Methylnaphthalene	None	0.02	<0.04	---		0.037 J
2-Chloronaphthalene	None	---	<0.04	---		<0.0029
2-Methylnaphthalene	None	0.023	<0.04	---		<0.0081
Acenaphthene	None	0.016	<0.04	<0.04	31.5	0.035 J
Acenaphthylene	None	<0.0086	<0.04	<0.04	0.13	<0.0021
Anthracene	3,000	<0.012	<0.04	<0.04	0.24	<0.0024
Benzo(a)anthracene	None	<0.017	<0.04	<0.04	<0.021	<0.020
Benzo(a)pyrene	0.2	<0.019	<0.04	<0.04	<0.0021	<0.0030
Benzo(b)fluoranthene	0.2	<0.017	<0.04	<0.04	<0.021	<0.0022
Benzo(g,h,i)perylene	None	<0.020	<0.04	<0.04	<0.021	<0.0025
Benzo(k)fluoranthene	None	<0.020	<0.04	<0.04	<0.021	<0.020
Chrysene	0.2	<0.020	<0.04	<0.04	<0.021	<0.020
Dibenz(a,h)anthracene	None	---	---	<0.04	<0.021	<0.0044
Dibenzofuran	None	---	<0.04	---		<0.0025
Fluoranthene	400	<0.016	<0.04	<0.04	0.46	<0.0031
Fluorene	400	<0.0096	<0.04	<0.04	1.9	0.0050 J
Indeno(1,2,3-cd)pyrene	None	<0.020	<0.04	<0.04	<0.021	<0.0023
Naphthalene	100	0.23	<0.04	<0.04	0.41	<0.014
Phenanthrene	None	<0.012	<0.04	<0.04	1.5	<0.0029
Pyrene	250	<0.015	<0.04	<0.04	0.28	<0.0073

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

Table 2, MW-22

Parameters	NR 140 Enforcement Standard	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22
		11/15/2005	10/24/2006	8/13/2008	7/22/2009	4/22/2010	10/28/2010	4/14/2011	11/4/2011	8/22/2012	5/16/2013	12/17/2014
VOC												
Acetone	9,000	---	171	195	145	139	140	97.3	130	179	199	144
Benzene	5	10	6.4	10.7	5.4	5.3	4.0	4.9	4.5	4.6	4.5	4.4
Bromobenzene	None	<0.82	<1.0	<1	<1	<1	<1	<1	<1	<0.086	<0.23	<0.13
2-Butanone (MEK)	4000	---	10.5	9.5	10.0	11.4	8.8	5	12.1	11.9	10.2	5.2
Chloroethane	400	<0.97	<1.0	<1	<1	<1	<1	<1	<1	<0.22	<0.50	<0.24
Chloroform	6	<0.37	1.1	<1	<1	<1	<1	<1	<1	<0.14	<0.27	<0.16
Chloromethane	30	0.48	<1.0	<1	4.1	<4	<4	<4	<4	<0.21	<2.0	<0.34
Ethylbenzene	700	<0.54	<1.0	<1	<1	<1	<1	<1	<1	<0.081	<0.24	<0.16
Isopropylbenzene (Cumene)	None	<0.59	<1.0	<1	<1	1.4	1.1	1.2	1.8	<0.076	<0.50	0.64 J
p-Isopropyltoluene	None	<0.67	2.3	2.8	<1	2.7	1.4	1.3	2.5	1.2	1.8	1.9
Naphthalene	100	2.7	2.9	<4	<4	<4	<4	<4	<4	<0.068	<2.0	<2.0
n-Propylbenzene	None	<0.81	<1.0	<1	<1	<1	<1	<1	<1	<0.078	<0.50	<0.50
Styrene	100	<0.86	<1.0	<1	<1	<1	<1	<1	<1	<0.060	<0.24	<0.063
Toluene	800	1.5	1.8	1.9	1.8	1.7	1.3	1.4	1.8	1.6	1.9	1.4
1,2,4-Trimethylbenzene	480 ^a	<0.97	<1.0	<1	<1	8.6	7.7	10.3	13.6	7.3	7.3	5.1
1,3,5-Trimethylbenzene	480 ^a	<0.83	<1.0	<1	<1	4.8	4.4	5.8	7.6	4.3	4.4	3.2
m&p-Xylene	2,000 ^b	<1.8	<2.0	<2	<2	<2	<2	<2	<2	<0.11	---	---
o-Xylene	2,000 ^b	<0.83	<1.0	<1	<1	2.5	1.8	1.9	2.2	1.3	---	---
Xylene(Total)	2,000 ^b	---	---	---	---	---	---	---	---	---	<0.72	<0.40
PAH												
1-Methylnaphthalene	None	1.7	0.25	---	---	---	---	---	---	---	---	0.18
2-Chloronaphthalene	None	---	<0.04	---	---	---	---	---	---	---	---	<0.0029
2-Methylnaphthalene	None	1.2	0.17	---	---	---	---	---	---	---	---	0.14
Acenaphthene	None	1.9	0.14	0.43	0.089	0.11	0.1	0.11	0.079	0.13	0.088	0.11
Acenaphthylene	None	0.12	<0.04	<0.041	<0.041	<0.041	<0.40	<0.041	<0.043	<0.044	<0.021	0.0096 J
Anthracene	3,000	0.98	0.05	0.29	<0.041	<0.041	<0.40	<0.041	<0.043	<0.0089	0.05	0.097
Benzo(a)anthracene	None	0.4	0.052	0.32	<0.041	<0.041	<0.40	<0.041	<0.043	<0.0089	<0.021	<0.020
Benzo(a)pyrene	0.2	0.21	<0.04	0.22	<0.041	<0.041	<0.40	<0.041	<0.043	<0.011	<0.0021	0.016 J
Benzo(b)fluoranthene	0.2	<0.17	0.16	0.19	<0.041	<0.041	<0.40	<0.041	<0.043	<0.011	<0.021	0.010 J
Benzo(g,h,i)perylene	None	<0.20	0.26	0.11	<0.041	<0.041	<0.40	<0.041	<0.043	<0.011	<0.021	<0.0025
Benzo(k)fluoranthene	None	<0.20	<0.04	0.082	<0.041	<0.041	<0.40	<0.041	<0.043	<0.010	<0.021	<0.020
Chrysene	0.2	0.38	0.057	0.36	<0.041	<0.041	<0.40	<0.041	<0.043	<0.010	<0.021	<0.020
Dibenz(a,h)anthracene	None	---	---	<0.041	<0.041	<0.041	<0.40	<0.041	<0.043	<0.010	<0.021	<0.0044
Dibenzofuran	None	---	<0.04	---	---	---	---	---	---	---	---	0.033 J
Fluoranthene	400	1.1	0.083	0.68	<0.041	<0.041	<0.40	<0.041	<0.043	<0.013	<0.0031	0.014 J
Fluorene	400	0.71	<0.04	0.16	<0.041	<0.041	<0.40	<0.041	<0.043	<0.0044	<0.021	0.017 J
Indeno(1,2,3-cd)pyrene	None	<0.20	<0.04	0.071	<0.041	<0.041	<0.40	<0.041	<0.043	<0.011	<0.021	<0.0023
Naphthalene	100	3.4	0.52	0.84	0.5	0.41	0.5	0.52	0.47	0.48	0.4	0.5
Phenanthrene	None	3.1	0.21	1.1	0.072	0.087	0.061	0.047	<0.043	0.1	0.057	0.061
Pyrene	250	1.5	0.1	0.99	<0.041	0.043	<0.40	<0.041	<0.043	<0.014	<0.0031	0.015 J

Results are reported in micrograms per liter or parts per billion.

Only Detected compounds are listed on this table. See laboratory analytical reports for list of results.

a. The enforcement standard is 480 ug/L for the sum of all trimethylbenzene concentrations.

b. The enforcement standard is 2,000 ug/L for the total xylene concentrations.

c. "J" Indicates that the estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Appendix A

Groundwater Sample Collection Forms

Draft

**Groundwater Sample
Collection Forms**

May 2013

Draft



DAILY FIELD LOG

Project Name: Superior MGP Project No.: 2118-0001
 Date: 5/16/13 Completed By: RLA/BMG
 Project Location: Superior, WI Weather: _____

<u>Expenses</u>	<u>Equipment</u>
Mileage _____ miles Hotel \$ _____	PID _____ days Truck _____ days
Meals \$ _____ (B) \$ _____ (L) \$ _____ (D)	WLI _____ days Bailers _____ #
Other: _____	Other: _____

Work Performed

625 leave Summit for site
 845 Arrive on site
 900-1055 manual DTWs in monitoring wells (see GWE datasheets)
~~1050-1300~~ 1045 check in at WWTP
 1100-1300 sample MW-15 and MW-20 (in WWTP) see sampling forms
 1300 sign out at WWTP
 1308 get ice at Super One foods
 1315-1342 lunch
 1345-2035 sample wells MW-7, MW-8, MW-9, MW-10
 and MW-22 - see sampling forms
 2040 check into motel
 5/17 620 leave motel for site to sample last two wells
 630-815 sample wells MW-6 + MW-11 - see forms
 820-845 back at motel
 845 leave hotel for ~~DNR~~^{SWLTP} office to meet
 w/ Jamie Dunn

853 - 1014 meeting at SWL+P office

1015 - 1030 fill out COC, Bill on phone

1035 buy ice for samples @ SuperOne foods 69467 mi

1045 fill w/ gas

1400 Arrive @ Summit, unload

1415 Mob to FEI to drop off equip.

1505 drop off equip @ FEI

mob to Pace Analytical

1605 drop off samples @ Pace

mob to Summit

1620 Arrive at Summit

1630 finished



GROUNDWATER ELEVATION DATA

Project Name Superior MGP

Summit Project No. 2118-0001

Project Location Superior, WI

Completed By RLA

Date May 16, 2013

Weather Sunny, ~50°F Measuring Device In-Situ Well Depths (check one) Measured Historical Data Used

Well No.	Time	Top of Casing	Depth to Water	Groundwater Elevation	Sensor Reading	Sensor Depth	Previous water level data reviewed		Well Depth	Measurements performed by	Remarks
							Yes	NA*			
MW-6	902		9.00							WMG	
MW-5	926		6.36								
MW-2	934		4.66								
MW-3	942		10.16								well is bent/broke
MW-1	947		8.71								
MW-4	955		8.31								
MW-13	957		4.76								
MW-14	1003		6.94								
MW-7	1007		11.90								
MW-8	1011		11.83								

Notes: _____

*explain NA in Notes



GROUNDWATER ELEVATION DATA

Project Name SWLP Summit Project No. 2118-0001
 Project Location Superior, WI
 Completed By RAL/WMG Date 5/16/13
 Weather ~ 50 sunny windy Measuring Device e type Well Depths (check one) Measured Historical Data Used

Well No.	Time	Top of Casing	Depth to Water	Groundwater Elevation	Sensor Reading	Sensor Depth	Previous water level data reviewed		Well Depth	Measurements performed by	Remarks
							Yes	NA*			
MW-12	11:21		6.35								
MW-9	1014		8.23								
MW-22	1018		6.27								
MW-10	1028		3.82								Bugs on transducer cable
MW-11	1039		7.99								Fvg S
MW-75	1052		7.92								
MW-6	1102		12.68								
MW-17	1107		7.85								
MW-21	1111		8.96								Fvg S
MW-20	1128		4.09								

Notes: _____

*explain NA in Notes

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-15
 Client: SWLP Summit Project Name/No.: Superior MGP 2181-0001
 Project Location: Superior, WI Collected By: RLA
 Date: 5/16/13 Start Time: 1103 End Time: _____ Weather: Sunny ~55°F

Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC
 Static DTW (From TOC): 7.92 Well Depth (From TOC): 12-18 Casing Diameter: 2"

Purging Method: Low-Flow/Peristaltic Pump
 Field Testing Equipment Used: Horiba /Flow thru cell

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-15	1L Amber	2	None	PAH 8270	1205
MW-15	40mL glass	3	HCL	VOL 8260	1205

Duplicate collected Duplicate ID# _____

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria		0.1	3%		0.3	10 mV				
1110	9.45	8.27	2.69	19.6	0.00	-32	Clear	Mod.		200
1115	7.50	7.73	2.93	16.1	0.00	-96			8.24	220
1120	7.03	7.45	2.97	14.9	0.00	-101			8.26	230
1125	6.98	7.30	2.98	14.2	0.00	-103			8.76	230

Stabilization Data (continued)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria	7	0.1	3%		0.3	10				
1130	7.11	7.19	2.97	15.3	0	-104			8.24	
1135	Move truck for workers & pump off									
1140	7.50	7.09	2.52	16.0	0	-94				196
1145	7.35	7.03	2.84	13.1	0.00	-96				
1150	7.33	7.02	2.97	13.0	0	-101			8.27	
1155	7.26	7.02	2.97	13.8	0	-107				
1200	7.31	7.01	2.91	13.8	0	-104				
1205	sample									

Stabilization Notes: _____

Sampler Signature: Ryan Anderson Date: 5/16/13

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-8
 Client: SWLP Summit Project Name/No.: Superior MCP 2181-0001
 Project Location: Superior, WI Collected By: RLA/WMG
 Date: 5/16/13 Start Time: 1406 End Time: _____ Weather: _____

Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC
 Static DTW (From TOC): 11.83 Well Depth (From TOC): _____ Casing Diameter: 2"

Purging Method: Low-flow / Peristaltic pump
 Field Testing Equipment Used: Horiba / Flow-thru cell

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-8	1 L Amber	2	-	PAH 8270	
MW-8	40 ml glass	3	HCl	VOC 8260	

Duplicate collected Duplicate ID# _____

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
1413	10.53	13.46	4.21	52.7	0.10	-261				190
1418	9.03	13.73	3.76	16.0	0.00	-255				
1423	9.34	13.93	3.99	10.0	0	-261				
Battery dies, start over later										

Stabilization Data (continued)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										

Draft

Stabilization Notes: _____

Sampler Signature: Ryan Anderson Date: 5/16/13

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-9
 Client: SWLP Summit Project Name/No.: Superior MGP 2118-0001
 Project Location: Superior w1 Collected By: RLA/WMG
 Date: 5/16/13 Start Time: 1400 End Time: _____ Weather: Sunny, ~60°F
 ↑
 pump
 Sample Point Type: Well/Piezometer/Other Well Casing Type: 2" PVC
 Static DTW (From TOC): 8.23 Well Depth (From TOC): _____ Casing Diameter: 2"

Purging Method: Low-flow / Peristaltic Pump
 Field Testing Equipment Used: Horiba / Flow-thru cell
 Calibration data can be found in the project file

Sample Collection

Sample Collection Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-9	1 L Amber	2	—	PAH 8270	1600
MW-9	40ml glass	3	He1	VOC 8260	1600

Duplicate collected Duplicate ID# _____

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
1434	8.18	11.16	1.44	102	0.90	-203	Yellow	Y		180
1439	7.86	11.24	1.48	150	0	-229	Yellow	Y	9.28	
1444	7.75	11.25	1.48	174	0	-241			9.30	200
1449	7.69	11.66	1.47	250	0	-259				

Stabilization Data (continued)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
1454	7.88	11.94	1.47	262	0	-266			9.29	
1459	7.86	11.75	1.47	283	0	-265				
1504	8.04	12.88	1.58	358	0	-294			9.26	
1509	7.84	12.72	1.71	364	0	-292				180
1514	7.81	13.09	1.67	392	0	-303				
1519	7.92	13.24	1.80	422	0	-310				
1524	7.83	13.30	1.88	401	0	-315				
1529	7.93	13.42	1.93	358	0	-322				
1534	8.01	13.52	2.11	369	0	-329				
1539	8.00	13.68	2.26	366	0	-338				
1544	7.98	13.71	2.47	391	0	-342				
1549	7.99	13.77	2.53	400	0	-347			9.20	
1554	8.02	13.81	2.66	437	0	-353				
1559	8.01	13.84	2.70	415	0	-356			9.18	
1600	Sample									

Stabilization Notes: _____

Sampler Signature: Ryan Anderson Date: 5/16/13

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-10

Client: SWLP Summit Project Name/No.: Superior MGP/2118-0001

Project Location: Superior WI Collected By: RLA/WMG

Date: 5/16/13 Start Time: 1500 End Time: _____ Weather: DN

Sample Point Type: Well/Piezometer/Other _____ Casing Type: _____

Static DTW (From TOC): _____ Well Depth (From TOC): _____ Casing Diameter: _____

Purging Method: peristaltic low flow

Field Testing Equipment Used: Horiba U52 w/flow cell

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-20	1 L container	2	-	PAH	1700
MW-20	40 mL vial	3	HCL	VOC	1700

Duplicate collected Duplicate ID# _____

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
1612	8.67	8.95	0.916	9.8	0	-97	clear			200
1614	8.18	8.80	0.927	9.3	0	-98	↓			
1617	7.95	8.67	0.933	8.7	0	-99	↓			
1625	7.44	8.21	0.943	9.8	0	-107	↓			
1630	7.28	8.02	0.947	9.1	0	-113				

Stabilization Data (continued)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
1635	7.02	7.81	0.950	9.0	0	-121				
1640	6.93	7.66	0.954	9.3	0	-130				
1645	6.74	7.57	0.957	9.7	0	-138			4.26	
1650	6.59	7.37	0.961	9.4	0	-147				

Stabilization Notes: _____

Sampler Signature: _____ Date: _____

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-8

Client: SWLP Summit Project Name/No.: _____

Project Location: _____ Collected By: _____

Date: 5/16/13 Start Time: _____ End Time: _____ Weather: _____

Sample Point Type: Well/Piezometer/Other _____ Casing Type: _____

Static DTW (From TOC): _____ Well Depth (From TOC): _____ Casing Diameter: _____

Purging Method: _____

Field Testing Equipment Used: _____

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time

Duplicate collected Duplicate ID# _____

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
1705	7.91	13.20	4.95	11.5	0	-279	clear	Yes	13.14	~195
1712	6.99	13.75	5.12	10.1	0	-281	"			
1717	6.85	13.89	5.15	10.7	0	-278	"			
1722	6.76	13.97	5.18	10.6	0	-276				
1729	6.68	14.00	5.22	10.0	0	-278				
1730	Sample									

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-7
 Client: SWLP Summit Project Name/No.: Superior MGP 2188-0001
 Project Location: Superior, WI Collected By: RLA/BMG
 Date: 5/16/13 Start Time: 1720 End Time: _____ Weather: cloudy, ~52°F

Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC
 Static DTW (From TOC): 11.90' Well Depth (From TOC): _____ Casing Diameter: 2"

Purging Method: Low flow Peristaltic
 Field Testing Equipment Used: Horiba Flow thru
 Calibration data can be found in the project file

Sample Collection

Sample Collection Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-7	1L Amber	2	-	PAH 8270	1935
MW-7	40ml clr glass	3	HCl	VOC 8260	1935

Duplicate collected Duplicate ID# _____

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria		0.1	3%	10%	0.3	10				
1740	7.72	9.14	1.26	9.4	0	-149				240
1745	7.40	9.06	1.24	8.3	0	-191				
1750	7.42	9.05	1.21	8.1	0	-219			12.63	220
1755	7.35	9.53	1.17	7.8	0	-260			12.60	220

Stabilization Data (continued)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
1800	7.25	9.88	1.14	7.7	0	-292				220
1805	7.19	10.08	1.13	8.1	0	-299				
1810	7.16	10.26	1.12	8.2	0	-305				
1815	7.14	10.37	1.11	8.9	0	-308			12.57	
1820	7.10	10.55	1.10	9.3	0	-312				
1825	7.05	10.74	1.09	10.2	0	-316				
1830	7.04	10.91	1.09	11.0	0	-318				
1835	7.00	11.19	1.09	13.6	0	-321				
1840	6.96	11.52	1.09	14.8	0	-325			12.56	210
1845	6.93	11.86	1.12	16.5	0	-326				
1850	6.90	12.14	1.17	17.5	0	-328				
1855	6.87	12.35	1.20	17.3	0	-330				
1900	6.85	12.59	1.28	18.0	0	-335				
1905	6.89	12.74	1.34	18.0	0	-338				
1910	6.80	12.83	1.37	18.8	0	-336				
1915	6.73	12.92	1.40	18.9	0	-336				
1920	6.75	13.01	1.47	18.8	0	-337				
1925	6.76	13.05	1.48	19.0	0	-338				
1930	6.70	13.09	1.52	19.0	0	-337				
1935	Sample									
std	4.00		4.45	0.0						
	4.59 ↓		4.60	16.7 ↑						

C
5/21/13

Stabilization Notes: _____

Sampler Signature: *Tom Anderson* Date: 5/16/13

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-22
 Client: SWLP Summit Project Name/No.: Superior MGP 2118-0001
 Project Location: Superior, WI Collected By: RLA/WMG
 Date: 5/16/13 Start Time: _____ End Time: 2030 Weather: Cloudy, Windy, 50F

Sample Point Type: Well/Piezometer/Other Well Casing Type: PVC
 Static DTW (From TOC): _____ Well Depth (From TOC): _____ Casing Diameter: 2"

Purging Method: Low flow / Peristaltic
 Field Testing Equipment Used: Horiba / Pkw-thru

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-22</u>	<u>1 L Amber</u>	<u>2</u>	<u>-</u>	<u>PAH 8270</u>	<u>2015</u>
<u>MW-22</u>	<u>40 mL clr glass</u>	<u>3</u>	<u>HCl</u>	<u>VOC 8260</u>	<u>2015</u>

Duplicate collected Duplicate ID# MW-22D

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>1947</u>	<u>7.5</u>	<u>12.30</u>	<u>9.35</u>	<u>7.8</u>	<u>13.24</u>	<u>-152</u>				
<u>1954</u>	<u>5.15</u>	<u>13.99</u>	<u>10.3</u>	<u>5.4</u>	<u>9.16</u>	<u>-139</u>				<u>260</u>
<u>1959</u>	<u>4.78</u>	<u>14.00</u>	<u>10.4</u>	<u>5.4</u>	<u>8.40</u>	<u>-132</u>				
<u>2004</u>	<u>4.51</u>	<u>14.00</u>	<u>10.5</u>	<u>5.7</u>	<u>8.09</u>	<u>-125</u>				

Stabilization Data (continued)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
0009	4.33	14.00	10.6	5.7	7.72	-123				
2015	Sample									

Draft

Stabilization Notes: _____

Sampler Signature: Ryan Anderson Date: 5/16/13

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-6

Client: SWLP Summit Project Name/No.: Superior MGP

Project Location: Superior WI Collected By: RLA/WMG

Date: 5-17-13 Start Time: 0640 End Time: _____ Weather: FLC/W

Sample Point Type: Well/Piezometer/Other well Casing Type: PVC

Static DTW (From TOC): _____ Well Depth (From TOC): _____ Casing Diameter: 2"

Purging Method: low flow, peristaltic

Field Testing Equipment Used: Horiba U52^x & flow cell

Calibration data can be found in the project file ^x pH and maybe others did not stabilize yesterday on several wells and topped out at 14.00. Fields should look at this meter, why does

Sample Collection

Sample Collection Method: _____ *Turb. go up? (RLA)*

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-6	1L Amber	2	-	PAH 8270	715
MW-6	40mL clr glass	3	HCl	DOC 8260	715

Duplicate collected Duplicate ID# _____

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria		13.74							9.60	
655	13.2	6.5	5.35	4.1	0	-110	clear		9.56	200
700	9.09	14.00	5.9	5.2	0	-141				
705	8.47	14.00	5.75	6.2	0	-155				
710	7.83	14.00	6.04	6.1	0	-163				

715 sample

Stabilization Data (continued)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										

Stabilization Notes: _____

Sampler Signature: _____

Ryan Anderson

Date: _____

5/17/13

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-11

Client: SWLP Summit Project Name/No.: Superior MGP 2118-0001

Project Location: Superior, WI Collected By: RLA/WMG

Date: 5-17-13 Start Time: 0630 End Time: 0800 Weather: FC&W

Sample Point Type: Well/Piezometer/Other _____ Casing Type: _____

Static DTW (From TOC): _____ Well Depth (From TOC): _____ Casing Diameter: _____

Purging Method: low flow

Field Testing Equipment Used: Hanabag V52

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-11	1L amber	2	-	PAH	0800
MW-11	40ml VOA	3	HCl	VOG	0800

Duplicate collected Duplicate ID# _____

Comments _____

Stabilization Data (continued on reverse)

only pos. ORP on site?

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria									8.16	
0724	5.42	8.93	0.841	7.2	0	20	clear			200
0729	5.16	8.55	0.852	8.2	0	9			8.18	
0734	5.11	8.28	0.853	8.0	0	2				
0739	5.10	8.08	0.858	7.4	0	-3				
0744	5.10	7.83	0.864	7.0	0	-11			8.16	
0749	5.14	7.66	0.870	7.2	0	-17				

720
724

Stabilization Data (continued)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										

Stabilization Notes: _____

Sampler Signature: _____ Date: _____

91.5
T
518
SL
7.6
Turb
22
ORP
7.56
pH
0754

**Groundwater Sample
Collection Forms**

December 2014

Draft

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: Mw-1
 Client: Sulp Summit Project Name/No.: 2118-0001
 Project Location: Superior Collected By: Kur/WMG
 Date: 12/14/14 Start Time: 11:45 End Time: 12:45 Weather: Cold
 Sample Point Type: Well/Piezometer/Other _____ Casing Type: PVC
 Static DTW (From TOC): 5.53 Well Depth (From TOC): _____ Casing Diameter: 2.7
 Pumping Equipment and Depth Setting: _____
 Stabilization Testing Equipment Used (Flow Cell Y/N?): _____
Calibration data can be found in the project file

Sample Collection

Sample Collection Method: low flow

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>Mw-1</u>	<u>YanL Amber</u>	<u>2</u>	<u>-</u>	<u>PAH</u>	<u>12:45</u>
	<u>YanL Clear</u>	<u>3</u>	<u>HCl</u>	<u>VOC</u>	<u>12:45</u>

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>11:55</u>	<u>3.09</u>	<u>7.82</u>	<u>2.51</u>	<u>9.5</u>	<u>0.00</u>	<u>205</u>			<u>7.28</u>	<u>40</u>
<u>12:00</u>	<u>2.89</u>	<u>7.81</u>	<u>2.49</u>	<u>9.8</u>	<u>0.00</u>	<u>204</u>			<u>7.41</u>	<u>40</u>
<u>12:05</u>	<u>2.46</u>	<u>7.80</u>	<u>2.50</u>	<u>8.2</u>	<u>0.00</u>	<u>203</u>			<u>8.00</u>	<u>40</u>
<u>12:10</u>	<u>2.27</u>	<u>7.78</u>	<u>2.51</u>	<u>8.9</u>	<u>0.00</u>	<u>202</u>			<u>8.43</u>	<u>40</u>
<u>12:15</u>	<u>2.25</u>	<u>7.78</u>	<u>2.51</u>	<u>8.7</u>	<u>0.00</u>	<u>202</u>		<u>8.96</u>	<u>40</u>	<u>40</u>
<u>12:20</u>	<u>2.10</u>	<u>7.76</u>	<u>2.67</u>	<u>10.5</u>	<u>0.00</u>	<u>198</u>			<u>9.43</u>	<u>200</u>
<u>12:25</u>	<u>3.36</u>	<u>7.79</u>	<u>2.68</u>	<u>9.5</u>	<u>0.00</u>	<u>198</u>			<u>9.43</u>	<u>200</u>

~~4.4~~ No reading

MW-1

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Stabilization Data (continued)

Time Criteria	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
12:30	4.18	7.70	2.64	14.0	0.00	197			10.12	200
12:35	4.69	7.70	2.65	8.8	0.00	196			10.13	200
12:40	5.08	7.70	2.65	9.2	0.00	196			10.26	200
12:45		7.69	2.64	8.1	0.00	194			10.12	200

Stabilization Notes: _____

Sampler Signature: _____

Date: _____

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: Mw-2
 Client: SULP Summit Project Name/No.: 2118-0001
 Project Location: Superior Collected By: WMB/KWR
 Date: 12/16/14 Start Time: 1330 End Time: 0845 Weather: Cold
 Sample Point Type: Well/Piezometer/Other _____ Casing Type: PVC
 Static DTW (From TOC): 5.80 Well Depth (From TOC): 20.2 Casing Diameter: 2.0
 Pumping Equipment and Depth Setting: _____
 Stabilization Testing Equipment Used (Flow Cell Y/N?): _____
 Calibration data can be found in the project file

Sample Collection

Sample Collection Method: low flow 12/17/14

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
Mw-2	40ml amber	2	-	pH	0745
	40ml clear	3	Hel	Hcl	0745

Comments: clean down too high. Purged to 17.61 redwood next morning 11:31. Sample taken after 10min of casing

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria									6.25	48
1330	7.54	7.26	1.02	8.6	0.00	218			6.28	48
1335	7.45	7.95	1.86	7.4	0.00	203			6.75	48
1340	6.39	7.96	1.90	6.9	0.00	209			7.01	48
1345	5.77	7.96	2.06	8.3	0.00	209			9.21	320
1350	5.83	7.97	2.06	10.5	0.00	210			10.9	320
1355	5.80	7.95	2.12	8.8	0.00	212			10.9	320
1402	6.11	7.81	2.10	9.6	0.00	218			11.45	320

MW-2

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Stabilization Data (continued)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
1405	6.11	7.79	2.19	9.9	0.00	220			11.58	320
1410	7.73	7.71	2.13	9.0	0.00	225			11.67	60
1415	5.19	7.71	2.08	8.7	0.00	224			11.75	60
12/17/14									11.61	
12/17/14 0740	8.79	7.89	1.90	5.8	0.00	200			11.96	260
0745	7.36	7.01	1.98	7.0	0.00	209			12.33	290

12/17/14

Stabilization Notes: _____

Sampler Signature: _____ Date: _____

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-4
 Client: SWLP Summit Project Name/No.: 211B-0001
 Project Location: Superior MGP Collected By: WMG/KWR
 Date: 12-16-14 Start Time: 1500 End Time: _____ Weather: cold, windy
 Sample Point Type: Well/Piezometer/Other _____ Casing Type: PVC
 Static DTW (From TOC): 6.44 Well Depth (From TOC): _____ Casing Diameter: 2
 Pumping Equipment and Depth Setting: peristaltic mid-point
 Stabilization Testing Equipment Used (Flow Cell /N?): _____
 Calibration data can be found in the project file

Sample Collection

Sample Collection Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-4	40ml amber	2	-	PAH	1545
	" clear	3	HCl	VEL	1545

Comments Lots of drawdown. ☹️

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria	5									
1505	5.03	7.27	4.23	73.7	0	-83			7.97	160
1510	4.61	7.12	4.26	73.7	0	-87			9.00	120
1515	3.49	7.25	4.29	76.6	0	-87			10.09	80
1520	2.73	7.30	4.30	74.5	0	-86			10.06	80
1525	2.20	7.30	4.31	77.2	0	-88			10.51	80
1526									11.10	284
1530	4.78	7.25	4.33	79.9	0	-94			11.25	"

MW-4

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Stabilization Data (continued)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
1535	5.65	7.12	4.30	77.6	0	-108			11.24	284
1540	5.64	7.02	4.28	74.4	0	-105			11.21	284
1545	5.65	6.97	4.17	71.6	0	-94			11.4	284

Stabilization Notes: recharged when pumped harder!

Sampler Signature: _____ Date: _____

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-5

Client: SWLP Summit Project Name/No.: 2118-0001

Project Location: Superior MGP Collected By: WMC/KWR

Date: 12-17-14 Start Time: 740 End Time: _____ Weather: 10° clear

Sample Point Type: Well/Piezometer/Other Casing Type: PVC

Static DTW (From TOC): 7.67 Well Depth (From TOC): _____ Casing Diameter: 2

Pumping Equipment and Depth Setting: peristaltic - mid point

Stabilization Testing Equipment Used (Flow Cell N?): _____

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-5	40ml amber	2	-	PAH	0830
"	" clear	3	HCl	VOC	↓
MW-5D	" amber	2	-	PAH	
"	" clear	3	HCl	VOC	

Comments Started pump @ 740 - adjusted pump rate down to 200 mL/min to minimize drawdown over 740 to 755.

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
755	7.43	7.83	1.39	71.3	0	-144			9.22	200
800	6.4	8.10	1.44	69.2	0	-154			9.35	"
805	6.25	8.22	1.43	67.7	0	-155			9.46	"
810	5.88	8.36	1.44	64.5	0	-158			9.60	"
817	5.80	8.50	1.44	62.4	0	-159			9.65	"
822	5.66	8.47	1.45	62.5	0	-161			9.68	"

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-6

Client: SWLP Summit Project Name/No.: 2118-001

Project Location: Superior MGP Collected By: NMG/KWR

Date: 12-16-14 Start Time: 1207 End Time: _____ Weather: winter!

Sample Point Type: Well/Piezometer/Other _____ Casing Type: PVC

Static DTW (From TOC): 9.65 Well Depth (From TOC): _____ Casing Diameter: 2

Pumping Equipment and Depth Setting: _____

Stabilization Testing Equipment Used (Flow Cell Y/N?): _____

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-6</u>	<u>40 ml amber</u>	<u>2</u>	<u>-</u>	<u>PAH</u>	<u>1245</u>
	<u>" clear</u>	<u>3</u>	<u>HCl</u>	<u>VOC</u>	

Comments: Surface csg is bent, but sample-able.

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>1215</u>	<u>5.19</u>	<u>12.88</u>	<u>4.13</u>	<u>70.8</u>	<u>0.00</u>	<u>-164</u>			<u>10.25</u>	<u>~250</u>
<u>1220</u>	<u>4.35</u>	<u>12.89</u>	<u>4.16</u>	<u>71.4</u>	<u>0.00</u>	<u>-200</u>				
<u>1225</u>	<u>4.20</u>	<u>12.92</u>	<u>4.38</u>	<u>77.2</u>	<u>0.00</u>	<u>-211</u>			<u>10.30</u>	
<u>1230</u>	<u>4.20</u>	<u>12.94</u>	<u>4.43</u>	<u>76.7</u>	<u>0.00</u>	<u>-217</u>				
<u>1235</u>	<u>4.19</u>	<u>12.95</u>	<u>4.48</u>	<u>74.5</u>	<u>0.00</u>	<u>-218</u>				

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-7

Client: _____ Summit Project Name/No.: _____

Project Location: _____ Collected By: _____

Date: 12-17-14 Start Time: 0910 End Time: _____ Weather: _____

Sample Point Type: Well/Piezometer/Other _____ Casing Type: _____

Static DTW (From TOC): 14.68 Well Depth (From TOC): _____ Casing Diameter: _____

Pumping Equipment and Depth Setting: _____

Stabilization Testing Equipment Used (Flow Cell Y/N?): _____

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-7</u>	<u>40 ml amber</u>	<u>2</u>	<u>-</u>	<u>PAH</u>	<u>1000</u>
	<u>clear</u>	<u>3</u>	<u>HCl</u>	<u>VOC</u>	

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>Criteria</u>	<u>7.18</u>									
<u>0930</u>	<u>7.37</u>	<u>7.32</u>	<u>1.52</u>	<u>79.9</u>	<u>0</u>	<u>-146</u>			<u>12.63</u>	<u>~200</u>
<u>0935</u>	<u>6.64</u>	<u>7.71</u>	<u>1.52</u>	<u>79.1</u>	<u>0</u>	<u>-211</u>			<u>12.66</u>	<u>"</u>
<u>0940</u>	<u>6.54</u>	<u>8.30</u>	<u>1.46</u>	<u>74.6</u>	<u>0</u>	<u>-259</u>			<u>12.66</u>	<u>"</u>
<u>0945</u>	<u>6.19</u>	<u>8.90</u>	<u>1.38</u>	<u>63.8</u>	<u>0</u>	<u>-273</u>				
<u>0950</u>	<u>6.10</u>	<u>9.25</u>	<u>1.34</u>	<u>62.1</u>	<u>0</u>	<u>-278</u>				
<u>0955</u>	<u>5.96</u>	<u>9.70</u>	<u>1.29</u>	<u>62.3</u>	<u>0</u>	<u>-282</u>				
<u>1000</u>	<u>5.71</u>	<u>10.00</u>	<u>1.27</u>	<u>63.7</u>	<u>0</u>	<u>-285</u>				

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-8
 Client: SWIP Summit Project Name/No.: 2118-0001
 Project Location: Superior Collected By: KWR/WMG
 Date: 12/17/19 Start Time: 9:25 End Time: 10:15 Weather: Cold
 Sample Point Type: Well/Piezometer/Other well Casing Type: PVC
 Static DTW (From TOC): 14.71 Well Depth (From TOC): _____ Casing Diameter: 2.5
 Pumping Equipment and Depth Setting: _____
 Stabilization Testing Equipment Used (Flow Cell Y/N?): Y
Calibration data can be found in the project file

Sample Collection

Sample Collection Method: low flow

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-8	40ml clear	2	-	PAH	10:15
	40ml amber	3	Hcl	VOC	10:15

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
9:25	5.47	11.61	8.64	180	0.00	-157			12.43	160
9:30	4.99	11.75	3.70	120	0.00	-150			12.93	160
9:35	4.27	11.80	3.75	90	0.00	-144			13.04	140
9:40	3.64	11.86	3.82	66.3	0.00	-140			13.05	140
9:45	2.70	12.18	4.59	28.0	0.00	-162			12.98	200
9:50	2.47	12.25	4.74	26.0	0.00	-167			13.25	200
9:55	2.33	12.38	4.79	25.5	0.00	-160			13.26	140

MW-8

Stabilization Data (continued)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
1000	1.86	12.42	4.82	22.2	0.00	-64			13.11	140
1005	1.58	12.41	4.90	21.4	0.00	-170			13.05	140
1010	1.47		4.93	20.5	0.00	-172				

Stabilization Notes: _____

Sampler Signature: _____ Date: _____

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: Mw-9
 Client: SWIP Summit Project Name/No.: 2118-0001
 Project Location: Superior Collected By: KWR/WMC
 Date: 12/17/14 Start Time: 1040 End Time: 11:15 Weather: Cloud
 Sample Point Type: Well/Piezometer/Other well Casing Type: PVC
 Static DTW (From TOC): 8.38 Well Depth (From TOC): _____ Casing Diameter: 2.7
 Pumping Equipment and Depth Setting: _____
 Stabilization Testing Equipment Used (Flow Cell N?): _____
Calibration data can be found in the project file

Sample Collection

Sample Collection Method: low flow

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>Mw-9</u>	<u>40 mL Amber</u>	<u>2</u>	<u>-</u>	<u>PAH</u>	<u>10:15</u>
	<u>40 mL Clear</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	<u>10:15</u>

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>Criteria</u>										
<u>1045</u>									<u>9.04</u>	<u>280</u>
<u>1047</u>									<u>9.12</u>	<u>200</u>
<u>1050</u>	<u>13.1</u>	<u>8.59</u>	<u>1.14</u>	<u>67.9</u>	<u>0.00</u>	<u>-146</u>			<u>9.19</u>	<u>200</u>
<u>1055</u>	<u>5.93</u>	<u>8.88</u>	<u>1.34</u>	<u>59.7</u>	<u>0.00</u>	<u>-177</u>			<u>9.22</u>	
<u>1100</u>	<u>5.59</u>	<u>10.46</u>	<u>1.47</u>	<u>59.4</u>	<u>0.00</u>	<u>-221</u>			<u>9.18</u>	
<u>1105</u>	<u>5.45</u>	<u>11.65</u>	<u>1.65</u>	<u>82.3</u>	<u>0.00</u>	<u>-239</u>				
<u>1110</u>	<u>5.70</u>	<u>12.06</u>	<u>1.89</u>	<u>109</u>	<u>0.00</u>	<u>-251</u>				

MW-9

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Stabilization Data (continued)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
1115	6.08	12.23	2.12	139	0.00	-291				
1120	5.89	12.28	2.3	162	0.00	-287				
1028	6.00	12.4	2.46	177	0.00	-272				

Stabilization Notes: _____

Sampler Signature: _____ Date: _____

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: Mw-10
 Client: SWLP Summit Project Name/No.: 2118-0001
 Project Location: Superior Collected By: KWR/6 WMB
 Date: 12/15/14 Start Time: 10:24 End Time: 11:10 Weather: Cloudy, cool
 Sample Point Type: Well/Piezometer/Other Well Casing Type: pvc
 Static DTW (From TOC): 3.29 Well Depth (From TOC): _____ Casing Diameter: 2"
 Pumping Equipment and Depth Setting: Peristaltic pump
 Stabilization Testing Equipment Used (Flow Cell (Y/N?)): _____
Calibration data can be found in the project file

Sample Collection

Sample Collection Method: low flow

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW10	40 mL Amber	2	—	PAH	11:00
"	40 mL clear	3	HCl—	VOC	11:00

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
10:30	8.81	6.28	0.929	98.0	0.00	-87			3.97	160
10:35	8.01	6.14	0.961	107	0.00	-99			3.90	180
10:44	6.75	6.20	1.03	110	0.00	-95			3.94	180
10:50	6.42	6.19	1.03	109	0.00	-105				
10:55	6.20	6.14	1.04	108	0.00	-106				

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-11

Client: SWLP Summit Project Name/No.: 2118-0001

Project Location: Superior, WI Collected By: WMG/KWR

Date: 12-16-14 Start Time: 1022 End Time: _____ Weather: wintery

Sample Point Type: Well/Piezometer/Other _____ Casing Type: pvc

Static DTW (From TOC): 6.99 Well Depth (From TOC): _____ Casing Diameter: 2

Pumping Equipment and Depth Setting: _____

Stabilization Testing Equipment Used (Flow Cell Y/N?): _____

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-11	40 ml amber	2	-	PAH	10:55
	" glass	3	HCl	VOC	"

Comments [MW-3, surface eq. at angle, replaced cap, ice in riser at "1" below MP blocks, entry to well. No sample]

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
1025	7.00	6.42	1.02	114	0.00	-16			7.11	380
1030	6.98	6.38	1.02	108	0.00	-24			7.11	380
1035	6.93	6.42	1.03	102	0.00	-29				
1042	6.86	6.38	1.03	103	0.00	-34				
1048	6.77	6.34	1.04	93	0.00	-36				
1054	6.60	6.30	1.04	92.3	0.00	-36				

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: Mw-12
 Client: SULF Summit Project Name/No.: 2118-0001
 Project Location: Superior Collected By: Kur / WMB
 Date: 12/15/14 Start Time: 10:50 End Time: 13:15 Weather: Cloudy / cool
 Sample Point Type: Well/Piezometer/Other _____ Casing Type: PVC
 Static DTW (From TOC): 4.91 Well Depth (From TOC): 278 1/8 Casing Diameter: 2.0
 Pumping Equipment and Depth Setting: _____
 Stabilization Testing Equipment Used (Flow Cell Y/N?): _____
Calibration data can be found in the project file

Sample Collection

Sample Collection Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>Mw-12</u>	<u>40mL Amber</u>	<u>2</u>	<u>—</u>	<u>PAH</u>	<u>13:00</u>
	<u>40mL Clear</u>	<u>3</u>	<u>HCl</u>	<u>VOC</u>	<u>13:20</u>

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>Criteria</u>										
<u>13:00</u>	<u>7.11</u>	<u>6.42</u>	<u>1.10</u>	<u>102</u>	<u>0</u>	<u>-73</u>			<u>4.95</u>	<u>300</u>
<u>13:05</u>	<u>7.23</u>	<u>6.43</u>	<u>1.11</u>	<u>102</u>	<u>0</u>	<u>-81</u>			<u>4.95</u>	<u>300</u>
<u>13:10</u>	<u>7.27</u>	<u>6.39</u>	<u>1.11</u>	<u>100</u>	<u>0</u>	<u>-83</u>				
<u>13:15</u>	<u>7.33</u>	<u>6.37</u>	<u>1.11</u>	<u>100</u>	<u>0</u>	<u>-86</u>				

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: Mw-13
 Client: MH SWLF Summit Project Name/No.: 2918-001
 Project Location: _____ Collected By: KWR/LMG
 Date: 12/16/14 Start Time: 1500 End Time: 0845 Weather: cloud
 Sample Point Type: Well/Piezometer/Other well Casing Type: PVC
 Static DTW (From TOC): 4.79 Well Depth (From TOC): _____ Casing Diameter: 2.7
 Pumping Equipment and Depth Setting: _____
 Stabilization Testing Equipment Used (Flow Cell Y/N?): _____
 Calibration data can be found in the project file

Sample Collection

Sample Collection Method: Low flow

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>Mw-13</u>	<u>40 ml Amber</u>	<u>2</u>	<u>-</u>	<u>PHH</u>	<u>0845</u>
	<u>40 ml clear</u>	<u>3</u>	<u>Hcl</u>	<u>VOC</u>	<u>0845</u>

Comments draw down too high. Purged to 9.41 feet, redud
was to 8.80 feet next day. take sample after 10 min of
runing

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>Criteria</u>										
<u>1500</u>	<u>5.0</u>	<u>7.5</u>							<u>5.44</u>	<u>80</u>
<u>1510</u>	<u>5.77</u>	<u>7.53</u>	<u>3.43</u>	<u>7.5</u>	<u>0.00</u>	<u>112</u>			<u>5.91</u>	<u>80</u>
<u>1515</u>	<u>4.93</u>	<u>7.53</u>	<u>3.52</u>	<u>7.6</u>	<u>0.00</u>	<u>101</u>			<u>6.31</u>	<u>80</u>
<u>1520</u>	<u>3.14</u>	<u>7.48</u>	<u>3.69</u>	<u>7.6</u>	<u>0.00</u>	<u>107</u>			<u>6.55</u>	<u>80</u>
<u>1525</u>	<u>2.88</u>	<u>7.39</u>	<u>3.69</u>	<u>7.6</u>	<u>0.00</u>	<u>113</u>			<u>7.37</u>	<u>80</u>
<u>1530</u>	<u>4.60</u>	<u>7.32</u>	<u>3.81</u>	<u>7.7</u>	<u>0.00</u>	<u>125</u>			<u>7.95</u>	<u>300</u>
<u>1535</u>	<u>4.51</u>	<u>7.37</u>	<u>3.11</u>	<u>7.3</u>	<u>0.00</u>	<u>157</u>			<u>8.13</u>	<u>300</u>

no H2O to correct yet

MW-13

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Stabilization Data (continued)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
1540	4.65	7.37	3.80	8.1	0.00	103		8.91	8.61	300
1545	4.70	7.35	3.83	8.4	0.00	153		8.91	8.61	300
1550	4.92	7.37	3.85	8.7	0.00	131		9.41	9.41	300
1555	3.39	7.42	3.86	8.2	0.00	130		9.55	9.55	300
1600	3.19	7.41	3.83	9.9	0.00	120		9.69	9.69	100
1605	2.77	7.39	3.85	8.0	0.00	120		9.83	9.83	100
								(9.71)		
1540								8.41		
1545								9.03		
12/17/14 0815								8.80		
0835	6.78	7.50	3.72	11.3	1.18	135		9.13		
0840	6.53	7.43	3.73	10.0	1.34	117		9.41		

Stabilization Notes: _____

Sampler Signature: _____

Date: _____

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-14

Client: SWLP Summit Project Name/No.: 2118-0001

Project Location: Superior MGP Collected By: WMG/KWR

Date: 12-16-14 Start Time: 1330 End Time: _____ Weather: cold, windy N20-25

Sample Point Type: Well/Piezometer/Other _____ Casing Type: pvc

Static DTW (From TOC): 9.29 Well Depth (From TOC): 18' Casing Diameter: 2

Pumping Equipment and Depth Setting: peristaltic tubing @ 13' midpoint

Stabilization Testing Equipment Used (Flow Cell N?): Horiba 052?

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-14</u>	<u>40 ml amber</u>	<u>2</u>	<u>✓</u>	<u>PAH</u>	<u>1420</u>
	<u>40 ml clear</u>	<u>3</u>	<u>HCl</u>	<u>NOC</u>	

Comments Lots of draw down even at very low flow (est. < 50 ml/min)
1350-1405 - worked over to Kyle @ MW-2, got bottles.

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>1340</u>	<u>3.62</u>	<u>7.91</u>	<u>2.80</u>	<u>67.9</u>	<u>3.00</u>	<u>122</u>			<u>11.03</u>	<u>~40</u>
<u>1345</u>	<u>3.54</u>	<u>7.40</u>	<u>2.83</u>	<u>67.7</u>	<u>0.72</u>	<u>136</u>			<u>11.10</u>	
<u>1350</u>	<u>3.49</u>	<u>7.23</u>	<u>2.85</u>	<u>67.2</u>	<u>0.00</u>	<u>141</u>			<u>11.17</u>	
<u>1405</u>	<u>3.36</u>	<u>6.96</u>	<u>3.23</u>	<u>65.9</u>	<u>0.00</u>	<u>145</u>			<u>11.41</u>	
<u>1410</u>	<u>3.20</u>	<u>6.91</u>	<u>3.28</u>	<u>64.3</u>	<u>0.00</u>	<u>142</u>			<u>11.54</u>	
<u>1415</u>	<u>3.14</u>	<u>6.92</u>	<u>3.27</u>	<u>61.8</u>	<u>0.00</u>	<u>142</u>			<u>12.26</u>	

pump stopped
cracked
to ~250 ml/min

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-15
 Client: SWLP Summit Project Name/No.: 2118-0201
 Project Location: Superior WI Collected By: WMC/KR
 Date: 12-15-14 Start Time: 1156 End Time: _____ Weather: ~38° Foggy
 Sample Point Type: Well/Piezometer/Other _____ Casing Type: _____
 Static DTW (From TOC): 6.19 Well Depth (From TOC): _____ Casing Diameter: _____
 Pumping Equipment and Depth Setting: peristaltic mid point
 Stabilization Testing Equipment Used (Flow Cell Y/N?): Y Horiba
 Calibration data can be found in the project file

Sample Collection

Sample Collection Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-15</u>	<u>40 ml amber</u>	<u>2</u>	<u>-</u>	<u>PAH</u>	<u>1245</u>
	<u>40 ml clear</u>	<u>3</u>	<u>HCl</u>	<u>VOC</u>	<u>1245</u>

Comments Flow = 240 @ 12:00 WL = 6.72 (steady)
" = 240 @ 12:10 WL = 6.64

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>1225</u>	<u>7.35</u>	<u>6.80</u>	<u>.486</u>	<u>72.6</u>	<u>0.00</u>	<u>-62</u>			<u>6.77</u>	<u>240</u>
<u>1230</u>	<u>7.59</u>	<u>6.75</u>	<u>.465</u>	<u>71.3</u>	<u>0.00</u>	<u>-71</u>			<u>6.77</u>	<u>240</u>
<u>1237</u>	<u>7.63</u>	<u>6.79</u>	<u>.458</u>	<u>69.4</u>	<u>0.00</u>	<u>-79</u>			<u>6.77</u>	<u>4</u>
<u>1242</u>	<u>7.67</u>	<u>6.76</u>	<u>.456</u>	<u>68.1</u>	<u>0.00</u>	<u>-84</u>				

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-16
 Client: SWLP Summit Project Name/No.: 2118-0001
 Project Location: superior Collected By: WMC/KR
 Date: 12/15/14 Start Time: 1336 End Time: _____ Weather: _____
 Sample Point Type: Well Piezometer/Other _____ Casing Type: pvc
 Static DTW (From TOC): 10.59 Well Depth (From TOC): _____ Casing Diameter: 2
 Pumping Equipment and Depth Setting: peristaltic / mid-point
 Stabilization Testing Equipment Used (Flow Cell Y/N?): Horiba US2
 Calibration data can be found in the project file

Sample Collection

Sample Collection Method: Grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-16	40 ml amber	2	-	PAH	1410
	40 ml clear	3	HCl	VOC	1410

Comments Horiba doesn't work - purge time here at MW-16 should be sufficient based on prior sampling events. Replaced meter from fields - overwrite to hotel.

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria									10.74	280
1340									10.76	
1405										

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-17
 Client: SWLP Summit Project Name/No.: 2118-0001
 Project Location: Superior Collected By: WMC-KWR
 Date: 12-16-14 Start Time: 855 End Time: 920 Weather: cloud
 Sample Point Type: Well/Piezometer/Other Casing Type: PVC
 Static DTW (From TOC): 7.96 Well Depth (From TOC): _____ Casing Diameter: 2.5
 Pumping Equipment and Depth Setting: _____
 Stabilization Testing Equipment Used (Flow Cell Y/N?): Yes
Calibration data can be found in the project file

Sample Collection

Sample Collection Method: In flow

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-17	40ml Amber	2	-	PHH	0930
	40ml Clear	3	HCl	VOC	0930

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
9:00	9.00	6.22	1.17	71.1	0.0	-28			8.14	270
9:05	7.20	5.95	1.21	73.0	0.00	-28			8.15	
9:10	6.91	5.93	1.22	74.3	0.00	-31			8.15	
9:15	6.75	5.91	1.23	81.4	0.00	-35				
9:20	6.70	5.89	1.24	79.1	0.00	-36				

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-20
 Client: SWL P Summit Project Name/No.: 2118-0001
 Project Location: ~~Site~~ ^{Site} Collected By: KWR / ~~WMB~~ WMB
 Date: 11/15/14 Start Time: 11:28 End Time: 12:20 Weather: Cloudy Cold
 Sample Point Type: Well/Piezometer/Other well Casing Type: PVC
 Static DTW (From TOC): 2.67 Well Depth (From TOC): _____ Casing Diameter: 2"
 Pumping Equipment and Depth Setting: Peristaltic pump
 Stabilization Testing Equipment Used (Flow Cell Y/N?): _____
Calibration data can be found in the project file

Sample Collection

Sample Collection Method: Low flow

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-12	40 mL Amber	2	—	PAH	1220
	40 mL Clear	3	HCL	VOC	1220

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria									2.76	2.76 ^{KWR} 372
1140	6.86	6.05	1.25	85	6.51	-41				
1145	6.95	6.12	1.24	78.1	6.19	-44				
1150	6.98	6.10	1.23	80.3	5.44	-47				
1155	7.02	6.09	1.23	87.3	4.85	-44				
1200	7.05	6.06	1.23	84.3	4.24	-44				
1205	7.11	6.00	1.22	77.6	4.71	-50				
1210	7.10	6.08	1.22	72.0	3.00	-51				

MW-20

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Stabilization Data (continued)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
9:45	7.06	6.08	1.29	70.2	2.77	-52				
12:00	7.04	6.12	1.22	68.6	2.37	-54				

Stabilization Notes: _____

Sampler Signature: _____

Date: _____

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-21
 Client: SWIP Summit Project Name/No.: 2118-0001
 Project Location: Superior Collected By: KWR/WMG
 Date: 12/16/11 Start Time: 945 End Time: 1045 Weather: Cold
 Sample Point Type: Well/Piezometer/Other _____ Casing Type: PVC
 Static DTW (From TOC): 9.47 Well Depth (From TOC): _____ Casing Diameter: 2.5
 Pumping Equipment and Depth Setting: low flow
 Stabilization Testing Equipment Used (Flow Cell Y/N?): _____
Calibration data can be found in the project file

Sample Collection

Sample Collection Method: low flow

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
<u>MW-21</u>	<u>40ml Amber</u>	<u>2</u>	<u>-</u>	<u>PAH</u>	<u>10:45</u>
	<u>40ml Clear</u>	<u>3</u>	<u>HCL</u>	<u>Voc</u>	<u>10:45</u>

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
<u>9:45</u>	<u>8.26</u>	<u>9.46</u>	<u>1.17</u>	<u>62.9</u>	<u>11.0</u>	<u>120</u>			<u>9.88</u>	<u>300</u>
<u>9:50</u>	<u>7.75</u>	<u>7.62</u>	<u>1.18</u>	<u>50.2</u>	<u>0.00</u>	<u>45</u>			<u>9.88</u>	
<u>9:55</u>	<u>8.03</u>	<u>7.49</u>	<u>1.28</u>	<u>29.5</u>	<u>0.00</u>	<u>11</u>			<u>"</u>	<u>"</u>
<u>10:00</u>	<u>7.79</u>	<u>7.46</u>	<u>1.31</u>	<u>27.2</u>	<u>0.00</u>	<u>-1</u>				
<u>10:05</u>	<u>7.94</u>	<u>7.40</u>	<u>1.35</u>	<u>25</u>	<u>0.00</u>	<u>-22</u>				
<u>10:10</u>	<u>7.82</u>	<u>7.38</u>	<u>1.34</u>	<u>22.1</u>	<u>0.00</u>	<u>-25</u>				
<u>10:15</u>	<u>7.97</u>	<u>7.35</u>	<u>1.38</u>	<u>18.4</u>	<u>0.00</u>	<u>-35</u>				

MW-21

Stabilization Data (continued)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
1020	7.93	7.35	1.40	15.1	0.00	-37				
1025	7.88	7.29	1.41	14.5	0.00	-37				
1050	7.99	7.25	1.41	46.3	0.00	-47				
1030	7.99	7.18	1.61	46.3	0.00	-47				
1035	8.39	7.19	1.57	45.1	0.00	-45				
1040	8.43	7.19	1.54	42.5	0.00	-43				

Pump
Failure
Restart

Stabilization Notes: _____

Sampler Signature: _____ Date: _____

SUMMIT ENVIROSOLUTIONS, INC.

LOW-FLOW GROUNDWATER SAMPLING INFORMATION

Sample Point: MW-22

Client: SWLP Summit Project Name/No.: 2118-0001

Project Location: Superior Collected By: KWR/WBC

Date: 12/17/14 Start Time: 1135 End Time: 1225 Weather: _____

Sample Point Type: Well/Piezometer/Other _____ Casing Type: PVC

Static DTW (From TOC): 6.83 Well Depth (From TOC): _____ Casing Diameter: 2.4

Pumping Equipment and Depth Setting: _____

Stabilization Testing Equipment Used (Flow Cell /N?): _____

Calibration data can be found in the project file

Sample Collection

Sample Collection Method: Low flow

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW22 MW22	40 mL Amber	2	—	PAH	1225
	40 mL Clear	3	HCL	VOC	1225

Comments _____

Stabilization Data (continued on reverse)

Time	Temp (°C)	pH	Spec. Cond.	Turb (NTUs)	DO (mg/L)	ORP (mV)	Color	Odor	DTW (ft)	Flow (mL/min)
Criteria										
1135	15.20	12.62	8.25	16.6	0.00	43			6.88	200
1200	14.48	12.66	8.39	15.7	0.00	-23			6.82	
1205	13.15	12.71	8.55	15.9	0.00	-46				
1210	12.10	12.74	8.71	17.9	0.00	-59				
1215	10.79	12.76	9.00	18.0	0.00	-56				
1220	9.63	12.75	9.11	17.9	0.00	-55				



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: Summit

Address:

Email To:

Phone: 251-262-4130 Fax:

Requested Due Date/TAT:

Section B

Required Project Information:

Report To: Bill Gregg

Copy To:

Purchase Order No.:

Project Name:

Project Number:

Section C

Invoice Information:

Attention: Bill Gregg

Company Name:

Address:

Pace Quote Reference:

Pace Project Manager:

Pace Profile #:

Page: 2 of 2
 1851182

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER _____

Site Location
 STATE: _____

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G-GRAB C-CMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Analysis Test ↑ Y/N	Requested Analysis Filtered (Y/N)	SAMPLE CONDITIONS																																				
			COMPOSITE START <u>GRAB</u>	COMPOSITE END/GRAB			DATE	TIME					DATE	TIME	DATE	TIME	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)																											
1	MW-5	DW WT WW P SL OL WP AR TS OT	<u>GRAB</u>		<u>G</u>				<u>2</u>		X																																						
2	MW-5D								<u>3</u>																																								
3	MW-7																																																
4	MW-6																																																
5	MW-8																																																
6	MW-9																																																
7	MW-13																																																
8	MW-22																																																
9																																																	
10																																																	
11																																																	
12																																																	
ADDITIONAL COMMENTS		<u>Submit delivery to Pace</u>		<u>William M. Gray</u>		<u>12/17/14</u>		<u>160</u>		<u>2017-01-01</u>																																							

3

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER:
 SIGNATURE of SAMPLER:

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



1851181

Section A Required Client Information:

Company: Summit Environmental

Report To: Bill Gregg

Copy To:

Address: 1275 Bethesda Blvd

Project Name: Superior MGP

Purchase Order No.: 2118-0001

Project Number: 2118-0001

Phone: 301-262-4266

Fax:

Requested Due Date/TAT:

Section B Required Project Information:

Company Name: Bill Gregg

Address:

Project Name: Superior MGP

Purchase Order No.: 2118-0001

Project Number: 2118-0001

Site Location:

State: WI

Section C Invoice Information:

Attention: Bill Gregg

Company Name:

Address:

Project Name: Superior MGP

Purchase Order No.: 2118-0001

Project Number: 2118-0001

Site Location:

State: WI

Requested Due Date/TAT:

Requested Analysis Filtered (Y/N)

Regulatory Agency

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER Waste

Site Location: WI

State: WI

Requested Analysis Filtered (Y/N)

Analysis Test

Preservatives

H₂SO₄

HNO₃

HCl

NaOH

Na₂SO₃

Methanol

Other

Unpreserved

OF CONTAINERS

SAMPLE TEMP AT COLLECTION

COLLECTED

COMPOSITE START

COMPOSITE END/GRAB

DATE

TIME

SAMPLE TYPE (G=GRAB C=COMP)

MATRIX CODE (see valid codes to left)

DATE

TIME

RELINQUISHED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

Temp in °C

Received on

Ice (Y/N)

Custody

Sealed Cooler

(Y/N)

Samples Intact

(Y/N)

Pace Project No./ Lab I.D.

Additional Comments: Summit delivery to Pace

Signature of Sampler: William M. Steeg

DATE SIGNED (MM/DD/YY): 12/17/14

Signature of Sampler:

DATE SIGNED (MM/DD/YY):

SAMPLER NAME AND SIGNATURE

PRINT NAME of SAMPLER:

SIGNATURE of SAMPLER:

DATE SIGNED (MM/DD/YY):

3

Appendix B

Laboratory Analytical Reports

Draft

June 11, 2013

Bill Gregg
Summit Envirosolutions
1217 Bandana Blvd
Saint Paul, MN 55108

RE: Project: Superior MGP
Pace Project No.: 10229180

Dear Bill Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on May 17, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mariah Peronto

mariah.peronto@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: Superior MGP

Pace Project No.: 10229180

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Hawaii Certification #Pace

Idaho Certification #: MN00064

Illinois Certification #: 200011

Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT CERT0092

Nebraska Certification #: Pace

Nevada Certification #: MN_00064

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia/DCLS Certification #: 002521

Virginia/VELAP Certification #: 460163

Washington Certification #: C754

West Virginia Certification #: 382

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Superior MGP

Pace Project No.: 10229180

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10229180001	MW-15	Water	05/16/13 12:05	05/17/13 16:00
10229180002	MW-20	Water	05/16/13 12:45	05/17/13 16:00
10229180003	MW-7	Water	05/16/13 19:35	05/17/13 16:00
10229180004	MW-8	Water	05/16/13 17:30	05/17/13 16:00
10229180005	MW-9	Water	05/16/13 16:00	05/17/13 16:00
10229180006	MW-10	Water	05/16/13 17:00	05/17/13 16:00
10229180007	MW-22	Water	05/16/13 20:15	05/17/13 16:00
10229180008	MW-6	Water	05/17/13 07:15	05/17/13 16:00
10229180009	MW-11	Water	05/17/13 08:00	05/17/13 16:00
10229180010	MW-22D	Water	05/16/13 20:15	05/17/13 16:00
10229180011	Trip Blank	Water	05/16/13 00:00	05/17/13 16:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Superior MGP

Pace Project No.: 10229180

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10229180001	MW-15	EPA 8270 by SIM	JMZ	18
		EPA 8260	LPM	70
		SM 4500-H+B	MWD	1
10229180002	MW-20	EPA 8270 by SIM	JMZ	18
		EPA 8260	CNC	70
		SM 4500-H+B	MWD	1
10229180003	MW-7	EPA 8270 by SIM	JMZ	18
		EPA 8260	EB2	70
		SM 4500-H+B	MWD	1
10229180004	MW-8	EPA 8270 by SIM	JMZ	18
		EPA 8260	EB2	70
		SM 4500-H+B	MWD	1
10229180005	MW-9	EPA 8270 by SIM	JMZ	18
		EPA 8260	EB2	70
		SM 4500-H+B	MWD	1
10229180006	MW-10	EPA 8270 by SIM	JMZ	18
		EPA 8260	EB2	70
		SM 4500-H+B	MWD	1
10229180007	MW-22	EPA 8270 by SIM	JMZ	18
		EPA 8260	LPM	70
		SM 4500-H+B	MWD	1
10229180008	MW-6	EPA 8270 by SIM	JMZ	18
		EPA 8260	EB2	70
		SM 4500-H+B	MWD	1
10229180009	MW-11	EPA 8270 by SIM	JMZ	18
		EPA 8260	EB2	70
		SM 4500-H+B	MWD	1
10229180010	MW-22D	EPA 8270 by SIM	JMZ	18
		EPA 8260	LPM	70
		SM 4500-H+B	MWD	1
10229180011	Trip Blank	EPA 8260	LPM	70

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-15 **Lab ID: 10229180001** Collected: 05/16/13 12:05 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	42.0	ug/L	0.21	0.026	5	05/23/13 15:43	06/10/13 15:32	83-32-9	
Acenaphthylene	0.46	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 15:37	208-96-8	
Anthracene	0.60	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 15:37	120-12-7	
Benzo(a)anthracene	0.64	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 15:37	56-55-3	
Benzo(a)pyrene	0.61	ug/L	0.042	0.0021	1	05/23/13 15:43	06/02/13 15:37	50-32-8	
Benzo(b)fluoranthene	0.44	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 15:37	205-99-2	
Benzo(g,h,i)perylene	0.22	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 15:37	191-24-2	
Benzo(k)fluoranthene	0.20	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 15:37	207-08-9	
Chrysene	0.61	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 15:37	218-01-9	
Dibenz(a,h)anthracene	0.049	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 15:37	53-70-3	
Fluoranthene	1.3	ug/L	0.042	0.0031	1	05/23/13 15:43	06/02/13 15:37	206-44-0	
Fluorene	6.1	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 15:37	86-73-7	
Indeno(1,2,3-cd)pyrene	0.16	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 15:37	193-39-5	
Naphthalene	2.7	ug/L	0.042	0.0042	1	05/23/13 15:43	06/02/13 15:37	91-20-3	
Phenanthrene	1.0	ug/L	0.042	0.0031	1	05/23/13 15:43	06/02/13 15:37	85-01-8	
Pyrene	1.4	ug/L	0.042	0.0031	1	05/23/13 15:43	06/02/13 15:37	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	48 %		55-125		1	05/23/13 15:43	06/02/13 15:37	321-60-8	1M,4M, S0
Terphenyl-d14 (S)	56 %		67-125		1	05/23/13 15:43	06/02/13 15:37	1718-51-0	S0
8260 VOC									
Analytical Method: EPA 8260									
Acetone	ND	ug/L	20.0	10.0	1		05/24/13 04:21	67-64-1	
Allyl chloride	ND	ug/L	4.0	0.23	1		05/24/13 04:21	107-05-1	
Benzene	34.3	ug/L	1.0	0.24	1		05/24/13 04:21	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.23	1		05/24/13 04:21	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.50	1		05/24/13 04:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.25	1		05/24/13 04:21	75-27-4	
Bromoform	ND	ug/L	4.0	2.0	1		05/24/13 04:21	75-25-2	
Bromomethane	ND	ug/L	4.0	2.0	1		05/24/13 04:21	74-83-9	CL
2-Butanone (MEK)	ND	ug/L	5.0	2.5	1		05/24/13 04:21	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.50	1		05/24/13 04:21	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.50	1		05/24/13 04:21	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.50	1		05/24/13 04:21	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.31	1		05/24/13 04:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.24	1		05/24/13 04:21	108-90-7	
Chloroethane	ND	ug/L	1.0	0.50	1		05/24/13 04:21	75-00-3	
Chloroform	ND	ug/L	1.0	0.27	1		05/24/13 04:21	67-66-3	
Chloromethane	ND	ug/L	4.0	2.0	1		05/24/13 04:21	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.50	1		05/24/13 04:21	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.23	1		05/24/13 04:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2.0	1		05/24/13 04:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.27	1		05/24/13 04:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.23	1		05/24/13 04:21	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.14	1		05/24/13 04:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.092	1		05/24/13 04:21	95-50-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-15 **Lab ID: 10229180001** Collected: 05/16/13 12:05 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
1,3-Dichlorobenzene	ND	ug/L	1.0	0.50	1		05/24/13 04:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.50	1		05/24/13 04:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/24/13 04:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		05/24/13 04:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.22	1		05/24/13 04:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		05/24/13 04:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.23	1		05/24/13 04:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.24	1		05/24/13 04:21	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/24/13 04:21	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.20	1		05/24/13 04:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.50	1		05/24/13 04:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.50	1		05/24/13 04:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.25	1		05/24/13 04:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.50	1		05/24/13 04:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	2.0	1		05/24/13 04:21	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	2.0	1		05/24/13 04:21	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.24	1		05/24/13 04:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	2.5	1		05/24/13 04:21	87-68-3	
Isopropylbenzene (Cumene)	2.0	ug/L	1.0	0.50	1		05/24/13 04:21	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.50	1		05/24/13 04:21	99-87-6	
Methylene Chloride	ND	ug/L	4.0	2.0	1		05/24/13 04:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	2.5	1		05/24/13 04:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.50	1		05/24/13 04:21	1634-04-4	
Naphthalene	8.3	ug/L	4.0	2.0	1		05/24/13 04:21	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.50	1		05/24/13 04:21	103-65-1	
Styrene	ND	ug/L	1.0	0.24	1		05/24/13 04:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		05/24/13 04:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.13	1		05/24/13 04:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.29	1		05/24/13 04:21	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	2.9	1		05/24/13 04:21	109-99-9	
Toluene	ND	ug/L	1.0	0.23	1		05/24/13 04:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.50	1		05/24/13 04:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.50	1		05/24/13 04:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.50	1		05/24/13 04:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.16	1		05/24/13 04:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.50	1		05/24/13 04:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.13	1		05/24/13 04:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.54	1		05/24/13 04:21	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.33	1		05/24/13 04:21	76-13-1	
1,2,4-Trimethylbenzene	2.1	ug/L	1.0	0.50	1		05/24/13 04:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.50	1		05/24/13 04:21	108-67-8	
Vinyl chloride	ND	ug/L	0.40	0.14	1		05/24/13 04:21	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.72	1		05/24/13 04:21	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103 %		75-125		1		05/24/13 04:21	17060-07-0	
Toluene-d8 (S)	101 %		75-125		1		05/24/13 04:21	2037-26-5	

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-15		Lab ID: 10229180001		Collected: 05/16/13 12:05	Received: 05/17/13 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	102 %		75-125		1		05/24/13 04:21	460-00-4	
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	6.6	Std. Units	0.10	0.050	1		06/05/13 12:06		H6

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ANALYTICAL RESULTS

Project: Superior MGP
Pace Project No.: 10229180

Sample: MW-20 **Lab ID: 10229180002** Collected: 05/16/13 12:45 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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8270 MSSV PAH by SIM

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510

Acenaphthene	31.5	ug/L	0.21	0.026	5	05/23/13 15:43	06/10/13 13:01	83-32-9	
Acenaphthylene	0.13	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 15:58	208-96-8	
Anthracene	0.24	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 15:58	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 15:58	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.041	0.0021	1	05/23/13 15:43	06/02/13 15:58	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 15:58	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 15:58	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 15:58	207-08-9	
Chrysene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 15:58	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 15:58	53-70-3	
Fluoranthene	0.46	ug/L	0.041	0.0031	1	05/23/13 15:43	06/02/13 15:58	206-44-0	
Fluorene	1.9	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 15:58	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 15:58	193-39-5	
Naphthalene	0.41	ug/L	0.041	0.0041	1	05/23/13 15:43	06/02/13 15:58	91-20-3	
Phenanthrene	1.5	ug/L	0.041	0.0031	1	05/23/13 15:43	06/02/13 15:58	85-01-8	
Pyrene	0.28	ug/L	0.041	0.0031	1	05/23/13 15:43	06/02/13 15:58	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	55-125		1	05/23/13 15:43	06/02/13 15:58	321-60-8	7M
Terphenyl-d14 (S)	81	%	67-125		1	05/23/13 15:43	06/02/13 15:58	1718-51-0	

8260 VOC

Analytical Method: EPA 8260

Acetone	ND	ug/L	20.0	10.0	1		05/28/13 14:19	67-64-1	
Allyl chloride	ND	ug/L	4.0	0.23	1		05/28/13 14:19	107-05-1	L2
Benzene	142	ug/L	1.0	0.24	1		05/28/13 14:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.23	1		05/28/13 14:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.50	1		05/28/13 14:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.25	1		05/28/13 14:19	75-27-4	
Bromoform	ND	ug/L	4.0	2.0	1		05/28/13 14:19	75-25-2	
Bromomethane	ND	ug/L	4.0	2.0	1		05/28/13 14:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	2.5	1		05/28/13 14:19	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.50	1		05/28/13 14:19	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.50	1		05/28/13 14:19	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.50	1		05/28/13 14:19	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.31	1		05/28/13 14:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.24	1		05/28/13 14:19	108-90-7	
Chloroethane	ND	ug/L	1.0	0.50	1		05/28/13 14:19	75-00-3	
Chloroform	ND	ug/L	1.0	0.27	1		05/28/13 14:19	67-66-3	
Chloromethane	ND	ug/L	4.0	2.0	1		05/28/13 14:19	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.50	1		05/28/13 14:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.23	1		05/28/13 14:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2.0	1		05/28/13 14:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.27	1		05/28/13 14:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.23	1		05/28/13 14:19	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.14	1		05/28/13 14:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.092	1		05/28/13 14:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.50	1		05/28/13 14:19	541-73-1	

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-20 **Lab ID: 10229180002** Collected: 05/16/13 12:45 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
1,4-Dichlorobenzene	ND	ug/L	1.0	0.50	1		05/28/13 14:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/28/13 14:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		05/28/13 14:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.22	1		05/28/13 14:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		05/28/13 14:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.23	1		05/28/13 14:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.24	1		05/28/13 14:19	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/28/13 14:19	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.20	1		05/28/13 14:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.50	1		05/28/13 14:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.50	1		05/28/13 14:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.25	1		05/28/13 14:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.50	1		05/28/13 14:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	2.0	1		05/28/13 14:19	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	2.0	1		05/28/13 14:19	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.24	1		05/28/13 14:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	2.5	1		05/28/13 14:19	87-68-3	
Isopropylbenzene (Cumene)	3.1	ug/L	1.0	0.50	1		05/28/13 14:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.50	1		05/28/13 14:19	99-87-6	
Methylene Chloride	ND	ug/L	4.0	2.0	1		05/28/13 14:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	2.5	1		05/28/13 14:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.50	1		05/28/13 14:19	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.0	1		05/28/13 14:19	91-20-3	
n-Propylbenzene	1.2	ug/L	1.0	0.50	1		05/28/13 14:19	103-65-1	
Styrene	ND	ug/L	1.0	0.24	1		05/28/13 14:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		05/28/13 14:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.13	1		05/28/13 14:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.29	1		05/28/13 14:19	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	2.9	1		05/28/13 14:19	109-99-9	
Toluene	ND	ug/L	1.0	0.23	1		05/28/13 14:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.50	1		05/28/13 14:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.50	1		05/28/13 14:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.50	1		05/28/13 14:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.16	1		05/28/13 14:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.50	1		05/28/13 14:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.13	1		05/28/13 14:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.54	1		05/28/13 14:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.33	1		05/28/13 14:19	76-13-1	
1,2,4-Trimethylbenzene	11.7	ug/L	1.0	0.50	1		05/28/13 14:19	95-63-6	
1,3,5-Trimethylbenzene	1.0	ug/L	1.0	0.50	1		05/28/13 14:19	108-67-8	
Vinyl chloride	ND	ug/L	0.40	0.14	1		05/28/13 14:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.72	1		05/28/13 14:19	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	84	%	75-125		1		05/28/13 14:19	17060-07-0	
Toluene-d8 (S)	89	%	75-125		1		05/28/13 14:19	2037-26-5	
4-Bromofluorobenzene (S)	95	%	75-125		1		05/28/13 14:19	460-00-4	

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-20		Lab ID: 10229180002		Collected: 05/16/13 12:45	Received: 05/17/13 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	6.7	Std. Units	0.10	0.050	1		06/05/13 12:08		H6

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ANALYTICAL RESULTS

Project: Superior MGP
Pace Project No.: 10229180

Sample: MW-7 Lab ID: 10229180003 Collected: 05/16/13 19:35 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM					Preparation Method: EPA 3510				
Acenaphthene	3.5 ug/L		0.041	0.0051	1	05/23/13 15:43	06/02/13 16:19	83-32-9	
Acenaphthylene	1.1 ug/L		0.041	0.020	1	05/23/13 15:43	06/02/13 16:19	208-96-8	
Anthracene	1.1 ug/L		0.041	0.020	1	05/23/13 15:43	06/02/13 16:19	120-12-7	
Benzo(a)anthracene	ND ug/L		0.041	0.020	1	05/23/13 15:43	06/02/13 16:19	56-55-3	
Benzo(a)pyrene	ND ug/L		0.041	0.0020	1	05/23/13 15:43	06/02/13 16:19	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.041	0.020	1	05/23/13 15:43	06/02/13 16:19	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.041	0.020	1	05/23/13 15:43	06/02/13 16:19	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.041	0.020	1	05/23/13 15:43	06/02/13 16:19	207-08-9	
Chrysene	ND ug/L		0.041	0.020	1	05/23/13 15:43	06/02/13 16:19	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.041	0.020	1	05/23/13 15:43	06/02/13 16:19	53-70-3	
Fluoranthene	0.80 ug/L		0.041	0.0031	1	05/23/13 15:43	06/02/13 16:19	206-44-0	
Fluorene	2.3 ug/L		0.041	0.020	1	05/23/13 15:43	06/02/13 16:19	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.041	0.020	1	05/23/13 15:43	06/02/13 16:19	193-39-5	
Naphthalene	339 ug/L		4.1	0.41	100	05/23/13 15:43	06/10/13 13:22	91-20-3	
Phenanthrene	3.5 ug/L		0.041	0.0031	1	05/23/13 15:43	06/02/13 16:19	85-01-8	
Pyrene	0.83 ug/L		0.041	0.0031	1	05/23/13 15:43	06/02/13 16:19	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	74 %		55-125		1	05/23/13 15:43	06/02/13 16:19	321-60-8	6M
Terphenyl-d14 (S)	81 %		67-125		1	05/23/13 15:43	06/02/13 16:19	1718-51-0	
8260 VOC									
Analytical Method: EPA 8260									
Acetone	ND ug/L		10000	5000	500		05/21/13 22:45	67-64-1	
Allyl chloride	ND ug/L		2000	114	500		05/21/13 22:45	107-05-1	
Benzene	122000 ug/L		1000	239	1000		05/23/13 14:22	71-43-2	
Bromobenzene	ND ug/L		500	116	500		05/21/13 22:45	108-86-1	
Bromochloromethane	ND ug/L		500	250	500		05/21/13 22:45	74-97-5	
Bromodichloromethane	ND ug/L		500	124	500		05/21/13 22:45	75-27-4	
Bromoform	ND ug/L		2000	1000	500		05/21/13 22:45	75-25-2	
Bromomethane	ND ug/L		2000	1000	500		05/21/13 22:45	74-83-9	
2-Butanone (MEK)	ND ug/L		2500	1250	500		05/21/13 22:45	78-93-3	
n-Butylbenzene	ND ug/L		500	250	500		05/21/13 22:45	104-51-8	
sec-Butylbenzene	ND ug/L		500	250	500		05/21/13 22:45	135-98-8	
tert-Butylbenzene	ND ug/L		500	250	500		05/21/13 22:45	98-06-6	
Carbon tetrachloride	ND ug/L		500	154	500		05/21/13 22:45	56-23-5	
Chlorobenzene	ND ug/L		500	122	500		05/21/13 22:45	108-90-7	
Chloroethane	ND ug/L		2000	250	500		05/21/13 22:45	75-00-3	
Chloroform	ND ug/L		500	136	500		05/21/13 22:45	67-66-3	
Chloromethane	ND ug/L		2000	1000	500		05/21/13 22:45	74-87-3	
2-Chlorotoluene	ND ug/L		500	250	500		05/21/13 22:45	95-49-8	
4-Chlorotoluene	ND ug/L		500	114	500		05/21/13 22:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		2000	1000	500		05/21/13 22:45	96-12-8	
Dibromochloromethane	ND ug/L		500	133	500		05/21/13 22:45	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		500	116	500		05/21/13 22:45	106-93-4	
Dibromomethane	ND ug/L		2000	72.0	500		05/21/13 22:45	74-95-3	
1,2-Dichlorobenzene	ND ug/L		500	46.0	500		05/21/13 22:45	95-50-1	
1,3-Dichlorobenzene	ND ug/L		500	250	500		05/21/13 22:45	541-73-1	

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-7 **Lab ID:** 10229180003 Collected: 05/16/13 19:35 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
1,4-Dichlorobenzene	ND	ug/L	500	250	500		05/21/13 22:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	500	201	500		05/21/13 22:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	500	250	500		05/21/13 22:45	75-34-3	L3
1,2-Dichloroethane	ND	ug/L	500	112	500		05/21/13 22:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	500	120	500		05/21/13 22:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	500	114	500		05/21/13 22:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	500	120	500		05/21/13 22:45	156-60-5	
Dichlorofluoromethane	ND	ug/L	500	102	500		05/21/13 22:45	75-43-4	
1,2-Dichloropropane	ND	ug/L	2000	100	500		05/21/13 22:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	500	250	500		05/21/13 22:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	2000	250	500		05/21/13 22:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	500	124	500		05/21/13 22:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2000	250	500		05/21/13 22:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2000	1000	500		05/21/13 22:45	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	2000	1000	500		05/21/13 22:45	60-29-7	
Ethylbenzene	3500	ug/L	500	118	500		05/21/13 22:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2500	1250	500		05/21/13 22:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	500	250	500		05/21/13 22:45	98-82-8	
p-Isopropyltoluene	ND	ug/L	500	250	500		05/21/13 22:45	99-87-6	
Methylene Chloride	ND	ug/L	2000	1000	500		05/21/13 22:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2500	1250	500		05/21/13 22:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	500	250	500		05/21/13 22:45	1634-04-4	
Naphthalene	ND	ug/L	2000	1000	500		05/21/13 22:45	91-20-3	
n-Propylbenzene	ND	ug/L	500	250	500		05/21/13 22:45	103-65-1	
Styrene	1690	ug/L	500	122	500		05/21/13 22:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	500	250	500		05/21/13 22:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	500	63.5	500		05/21/13 22:45	79-34-5	
Tetrachloroethene	ND	ug/L	500	144	500		05/21/13 22:45	127-18-4	
Tetrahydrofuran	ND	ug/L	5000	1470	500		05/21/13 22:45	109-99-9	
Toluene	104000	ug/L	500	116	500		05/21/13 22:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	500	250	500		05/21/13 22:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	500	250	500		05/21/13 22:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	500	250	500		05/21/13 22:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	500	78.5	500		05/21/13 22:45	79-00-5	
Trichloroethene	ND	ug/L	500	250	500		05/21/13 22:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	500	66.5	500		05/21/13 22:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2000	272	500		05/21/13 22:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	500	164	500		05/21/13 22:45	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	500	250	500		05/21/13 22:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	500	250	500		05/21/13 22:45	108-67-8	
Vinyl chloride	ND	ug/L	200	69.0	500		05/21/13 22:45	75-01-4	
Xylene (Total)	16300	ug/L	1500	360	500		05/21/13 22:45	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	99 %		75-125		500		05/21/13 22:45	17060-07-0	
Toluene-d8 (S)	109 %		75-125		500		05/21/13 22:45	2037-26-5	
4-Bromofluorobenzene (S)	105 %		75-125		500		05/21/13 22:45	460-00-4	

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ANALYTICAL RESULTS

Project: Superior MGP
Pace Project No.: 10229180

Sample: MW-7		Lab ID: 10229180003	Collected: 05/16/13 19:35	Received: 05/17/13 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	11.2	Std. Units	0.10	0.050	1		06/05/13 12:09		H6

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ANALYTICAL RESULTS

Project: Superior MGP
Pace Project No.: 10229180

Sample: MW-8 Lab ID: 10229180004 Collected: 05/16/13 17:30 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM					Preparation Method: EPA 3510				
Acenaphthene	72.1	ug/L	0.40	0.051	10	05/23/13 15:43	06/10/13 13:44	83-32-9	
Acenaphthylene	6.9	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 16:39	208-96-8	
Anthracene	5.2	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 16:39	120-12-7	
Benzo(a)anthracene	0.23	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 16:39	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.040	0.0020	1	05/23/13 15:43	06/02/13 16:39	50-32-8	
Benzo(b)fluoranthene	0.049	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 16:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 16:39	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 16:39	207-08-9	
Chrysene	0.21	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 16:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 16:39	53-70-3	
Fluoranthene	3.8	ug/L	0.040	0.0030	1	05/23/13 15:43	06/02/13 16:39	206-44-0	
Fluorene	20.9	ug/L	0.40	0.20	10	05/23/13 15:43	06/10/13 13:44	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 16:39	193-39-5	
Naphthalene	691	ug/L	4.0	0.40	100	05/23/13 15:43	06/10/13 14:05	91-20-3	
Phenanthrene	33.4	ug/L	0.40	0.030	10	05/23/13 15:43	06/10/13 13:44	85-01-8	
Pyrene	3.7	ug/L	0.040	0.0030	1	05/23/13 15:43	06/02/13 16:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75 %		55-125		1	05/23/13 15:43	06/02/13 16:39	321-60-8	3M
Terphenyl-d14 (S)	87 %		67-125		1	05/23/13 15:43	06/02/13 16:39	1718-51-0	
8260 VOC									
Analytical Method: EPA 8260									
Acetone	ND	ug/L	1000	500	50		05/21/13 23:01	67-64-1	
Allyl chloride	ND	ug/L	200	11.4	50		05/21/13 23:01	107-05-1	
Benzene	93800	ug/L	1000	239	1000		05/23/13 10:04	71-43-2	
Bromobenzene	ND	ug/L	50.0	11.6	50		05/21/13 23:01	108-86-1	
Bromochloromethane	ND	ug/L	50.0	25.0	50		05/21/13 23:01	74-97-5	
Bromodichloromethane	ND	ug/L	50.0	12.4	50		05/21/13 23:01	75-27-4	
Bromoform	ND	ug/L	200	100	50		05/21/13 23:01	75-25-2	
Bromomethane	ND	ug/L	200	100	50		05/21/13 23:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	250	125	50		05/21/13 23:01	78-93-3	
n-Butylbenzene	ND	ug/L	50.0	25.0	50		05/21/13 23:01	104-51-8	
sec-Butylbenzene	ND	ug/L	50.0	25.0	50		05/21/13 23:01	135-98-8	
tert-Butylbenzene	ND	ug/L	50.0	25.0	50		05/21/13 23:01	98-06-6	
Carbon tetrachloride	ND	ug/L	50.0	15.4	50		05/21/13 23:01	56-23-5	
Chlorobenzene	ND	ug/L	50.0	12.2	50		05/21/13 23:01	108-90-7	
Chloroethane	ND	ug/L	200	25.0	50		05/21/13 23:01	75-00-3	
Chloroform	ND	ug/L	50.0	13.6	50		05/21/13 23:01	67-66-3	
Chloromethane	ND	ug/L	200	100	50		05/21/13 23:01	74-87-3	
2-Chlorotoluene	ND	ug/L	50.0	25.0	50		05/21/13 23:01	95-49-8	
4-Chlorotoluene	ND	ug/L	50.0	11.4	50		05/21/13 23:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	200	100	50		05/21/13 23:01	96-12-8	
Dibromochloromethane	ND	ug/L	50.0	13.3	50		05/21/13 23:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	11.6	50		05/21/13 23:01	106-93-4	
Dibromomethane	ND	ug/L	200	7.2	50		05/21/13 23:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	4.6	50		05/21/13 23:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	50.0	25.0	50		05/21/13 23:01	541-73-1	

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-8 Lab ID: 10229180004 Collected: 05/16/13 17:30 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
1,4-Dichlorobenzene	ND	ug/L	50.0	25.0	50		05/21/13 23:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	50.0	20.1	50		05/21/13 23:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	50.0	25.0	50		05/21/13 23:01	75-34-3	L3
1,2-Dichloroethane	ND	ug/L	50.0	11.2	50		05/21/13 23:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	12.0	50		05/21/13 23:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	50.0	11.4	50		05/21/13 23:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	12.0	50		05/21/13 23:01	156-60-5	
Dichlorofluoromethane	ND	ug/L	50.0	10.2	50		05/21/13 23:01	75-43-4	
1,2-Dichloropropane	ND	ug/L	200	10.0	50		05/21/13 23:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	50.0	25.0	50		05/21/13 23:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	25.0	50		05/21/13 23:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	50.0	12.4	50		05/21/13 23:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	25.0	50		05/21/13 23:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	100	50		05/21/13 23:01	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	200	100	50		05/21/13 23:01	60-29-7	
Ethylbenzene	1070	ug/L	50.0	11.8	50		05/21/13 23:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	250	125	50		05/21/13 23:01	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	50.0	25.0	50		05/21/13 23:01	98-82-8	
p-Isopropyltoluene	ND	ug/L	50.0	25.0	50		05/21/13 23:01	99-87-6	
Methylene Chloride	ND	ug/L	200	100	50		05/21/13 23:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	125	50		05/21/13 23:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	50.0	25.0	50		05/21/13 23:01	1634-04-4	
Naphthalene	741	ug/L	200	100	50		05/21/13 23:01	91-20-3	
n-Propylbenzene	ND	ug/L	50.0	25.0	50		05/21/13 23:01	103-65-1	
Styrene	4650	ug/L	50.0	12.2	50		05/21/13 23:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	25.0	50		05/21/13 23:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	6.4	50		05/21/13 23:01	79-34-5	
Tetrachloroethene	ND	ug/L	50.0	14.4	50		05/21/13 23:01	127-18-4	
Tetrahydrofuran	ND	ug/L	500	147	50		05/21/13 23:01	109-99-9	
Toluene	56500	ug/L	1000	233	1000		05/23/13 10:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	25.0	50		05/21/13 23:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	25.0	50		05/21/13 23:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	50.0	25.0	50		05/21/13 23:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	7.8	50		05/21/13 23:01	79-00-5	
Trichloroethene	ND	ug/L	50.0	25.0	50		05/21/13 23:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	6.6	50		05/21/13 23:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	200	27.2	50		05/21/13 23:01	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	50.0	16.4	50		05/21/13 23:01	76-13-1	
1,2,4-Trimethylbenzene	762	ug/L	50.0	25.0	50		05/21/13 23:01	95-63-6	
1,3,5-Trimethylbenzene	439	ug/L	50.0	25.0	50		05/21/13 23:01	108-67-8	
Vinyl chloride	ND	ug/L	20.0	6.9	50		05/21/13 23:01	75-01-4	
Xylene (Total)	20900	ug/L	150	36.0	50		05/21/13 23:01	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%	75-125		50		05/21/13 23:01	17060-07-0	
Toluene-d8 (S)	91	%	75-125		50		05/21/13 23:01	2037-26-5	
4-Bromofluorobenzene (S)	110	%	75-125		50		05/21/13 23:01	460-00-4	

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-8 **Lab ID: 10229180004** Collected: 05/16/13 17:30 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
pH at 25 Degrees C	12.2	Std. Units	0.10	0.050	1		06/05/13 12:10		H6

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-9 **Lab ID: 10229180005** Collected: 05/16/13 16:00 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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8270 MSSV PAH by SIM

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510

Acenaphthene	224	ug/L	4.2	0.53	100	05/23/13 15:43	06/10/13 14:49	83-32-9	
Acenaphthylene	3.6	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 17:00	208-96-8	
Anthracene	20.7	ug/L	0.84	0.42	20	05/23/13 15:43	06/10/13 14:27	120-12-7	
Benzo(a)anthracene	4.2	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 17:00	56-55-3	
Benzo(a)pyrene	3.4	ug/L	0.042	0.0021	1	05/23/13 15:43	06/02/13 17:00	50-32-8	
Benzo(b)fluoranthene	2.6	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 17:00	205-99-2	
Benzo(g,h,i)perylene	1.4	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 17:00	191-24-2	
Benzo(k)fluoranthene	0.87	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 17:00	207-08-9	
Chrysene	3.8	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 17:00	218-01-9	
Dibenz(a,h)anthracene	0.34	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 17:00	53-70-3	
Fluoranthene	17.4	ug/L	0.84	0.063	20	05/23/13 15:43	06/10/13 14:27	206-44-0	
Fluorene	59.9	ug/L	0.84	0.42	20	05/23/13 15:43	06/10/13 14:27	86-73-7	
Indeno(1,2,3-cd)pyrene	1.0	ug/L	0.042	0.021	1	05/23/13 15:43	06/02/13 17:00	193-39-5	
Naphthalene	1160	ug/L	21.1	2.1	500	05/23/13 15:43	06/11/13 10:57	91-20-3	
Phenanthrene	104	ug/L	0.84	0.063	20	05/23/13 15:43	06/10/13 14:27	85-01-8	
Pyrene	22.1	ug/L	0.84	0.063	20	05/23/13 15:43	06/10/13 14:27	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	83	%	55-125		1	05/23/13 15:43	06/02/13 17:00	321-60-8	5M
Terphenyl-d14 (S)	85	%	67-125		1	05/23/13 15:43	06/02/13 17:00	1718-51-0	

8260 VOC

Analytical Method: EPA 8260

Acetone	ND	ug/L	1000	500	50		05/21/13 23:16	67-64-1	
Allyl chloride	ND	ug/L	200	11.4	50		05/21/13 23:16	107-05-1	
Benzene	9670	ug/L	50.0	12.0	50		05/21/13 23:16	71-43-2	
Bromobenzene	ND	ug/L	50.0	11.6	50		05/21/13 23:16	108-86-1	
Bromochloromethane	ND	ug/L	50.0	25.0	50		05/21/13 23:16	74-97-5	
Bromodichloromethane	ND	ug/L	50.0	12.4	50		05/21/13 23:16	75-27-4	
Bromoform	ND	ug/L	200	100	50		05/21/13 23:16	75-25-2	
Bromomethane	ND	ug/L	200	100	50		05/21/13 23:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	250	125	50		05/21/13 23:16	78-93-3	
n-Butylbenzene	ND	ug/L	50.0	25.0	50		05/21/13 23:16	104-51-8	
sec-Butylbenzene	ND	ug/L	50.0	25.0	50		05/21/13 23:16	135-98-8	
tert-Butylbenzene	ND	ug/L	50.0	25.0	50		05/21/13 23:16	98-06-6	
Carbon tetrachloride	ND	ug/L	50.0	15.4	50		05/21/13 23:16	56-23-5	
Chlorobenzene	ND	ug/L	50.0	12.2	50		05/21/13 23:16	108-90-7	
Chloroethane	ND	ug/L	200	25.0	50		05/21/13 23:16	75-00-3	
Chloroform	ND	ug/L	50.0	13.6	50		05/21/13 23:16	67-66-3	
Chloromethane	ND	ug/L	200	100	50		05/21/13 23:16	74-87-3	
2-Chlorotoluene	ND	ug/L	50.0	25.0	50		05/21/13 23:16	95-49-8	
4-Chlorotoluene	ND	ug/L	50.0	11.4	50		05/21/13 23:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	200	100	50		05/21/13 23:16	96-12-8	
Dibromochloromethane	ND	ug/L	50.0	13.3	50		05/21/13 23:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	11.6	50		05/21/13 23:16	106-93-4	
Dibromomethane	ND	ug/L	200	7.2	50		05/21/13 23:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	4.6	50		05/21/13 23:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	50.0	25.0	50		05/21/13 23:16	541-73-1	

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-9 **Lab ID: 10229180005** Collected: 05/16/13 16:00 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
1,4-Dichlorobenzene	ND	ug/L	50.0	25.0	50		05/21/13 23:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	50.0	20.1	50		05/21/13 23:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	50.0	25.0	50		05/21/13 23:16	75-34-3	L3
1,2-Dichloroethane	ND	ug/L	50.0	11.2	50		05/21/13 23:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	12.0	50		05/21/13 23:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	50.0	11.4	50		05/21/13 23:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	12.0	50		05/21/13 23:16	156-60-5	
Dichlorofluoromethane	ND	ug/L	50.0	10.2	50		05/21/13 23:16	75-43-4	
1,2-Dichloropropane	ND	ug/L	200	10.0	50		05/21/13 23:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	50.0	25.0	50		05/21/13 23:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	25.0	50		05/21/13 23:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	50.0	12.4	50		05/21/13 23:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	25.0	50		05/21/13 23:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	100	50		05/21/13 23:16	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	200	100	50		05/21/13 23:16	60-29-7	
Ethylbenzene	489	ug/L	50.0	11.8	50		05/21/13 23:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	250	125	50		05/21/13 23:16	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	50.0	25.0	50		05/21/13 23:16	98-82-8	
p-Isopropyltoluene	ND	ug/L	50.0	25.0	50		05/21/13 23:16	99-87-6	
Methylene Chloride	ND	ug/L	200	100	50		05/21/13 23:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	125	50		05/21/13 23:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	50.0	25.0	50		05/21/13 23:16	1634-04-4	
Naphthalene	1080	ug/L	200	100	50		05/21/13 23:16	91-20-3	
n-Propylbenzene	ND	ug/L	50.0	25.0	50		05/21/13 23:16	103-65-1	
Styrene	104	ug/L	50.0	12.2	50		05/21/13 23:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	25.0	50		05/21/13 23:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	6.4	50		05/21/13 23:16	79-34-5	
Tetrachloroethene	ND	ug/L	50.0	14.4	50		05/21/13 23:16	127-18-4	
Tetrahydrofuran	ND	ug/L	500	147	50		05/21/13 23:16	109-99-9	
Toluene	3660	ug/L	50.0	11.6	50		05/21/13 23:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	25.0	50		05/21/13 23:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	25.0	50		05/21/13 23:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	50.0	25.0	50		05/21/13 23:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	7.8	50		05/21/13 23:16	79-00-5	
Trichloroethene	ND	ug/L	50.0	25.0	50		05/21/13 23:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	6.6	50		05/21/13 23:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	200	27.2	50		05/21/13 23:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	50.0	16.4	50		05/21/13 23:16	76-13-1	
1,2,4-Trimethylbenzene	114	ug/L	50.0	25.0	50		05/21/13 23:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	50.0	25.0	50		05/21/13 23:16	108-67-8	
Vinyl chloride	ND	ug/L	20.0	6.9	50		05/21/13 23:16	75-01-4	
Xylene (Total)	1820	ug/L	150	36.0	50		05/21/13 23:16	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%	75-125		50		05/21/13 23:16	17060-07-0	
Toluene-d8 (S)	101	%	75-125		50		05/21/13 23:16	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		50		05/21/13 23:16	460-00-4	

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-9 **Lab ID: 10229180005** Collected: 05/16/13 16:00 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
pH at 25 Degrees C	11.9	Std. Units	0.10	0.050	1		06/05/13 12:11		H6

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-10 **Lab ID: 10229180006** Collected: 05/16/13 17:00 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM					Preparation Method: EPA 3510				
Acenaphthene	19.3	ug/L	0.20	0.026	5	05/23/13 15:43	06/10/13 15:10	83-32-9	
Acenaphthylene	0.32	ug/L	0.041	0.020	1	05/23/13 15:43	06/02/13 17:20	208-96-8	
Anthracene	0.71	ug/L	0.041	0.020	1	05/23/13 15:43	06/02/13 17:20	120-12-7	
Benzo(a)anthracene	0.23	ug/L	0.041	0.020	1	05/23/13 15:43	06/02/13 17:20	56-55-3	
Benzo(a)pyrene	0.31	ug/L	0.041	0.0020	1	05/23/13 15:43	06/02/13 17:20	50-32-8	
Benzo(b)fluoranthene	0.28	ug/L	0.041	0.020	1	05/23/13 15:43	06/02/13 17:20	205-99-2	
Benzo(g,h,i)perylene	0.16	ug/L	0.041	0.020	1	05/23/13 15:43	06/02/13 17:20	191-24-2	
Benzo(k)fluoranthene	0.099	ug/L	0.041	0.020	1	05/23/13 15:43	06/02/13 17:20	207-08-9	
Chrysene	0.24	ug/L	0.041	0.020	1	05/23/13 15:43	06/02/13 17:20	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.041	0.020	1	05/23/13 15:43	06/02/13 17:20	53-70-3	
Fluoranthene	0.79	ug/L	0.041	0.0031	1	05/23/13 15:43	06/02/13 17:20	206-44-0	
Fluorene	3.2	ug/L	0.041	0.020	1	05/23/13 15:43	06/02/13 17:20	86-73-7	
Indeno(1,2,3-cd)pyrene	0.12	ug/L	0.041	0.020	1	05/23/13 15:43	06/02/13 17:20	193-39-5	
Naphthalene	5.6	ug/L	0.041	0.0041	1	05/23/13 15:43	06/02/13 17:20	91-20-3	
Phenanthrene	2.7	ug/L	0.041	0.0031	1	05/23/13 15:43	06/02/13 17:20	85-01-8	
Pyrene	0.85	ug/L	0.041	0.0031	1	05/23/13 15:43	06/02/13 17:20	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60 %		55-125		1	05/23/13 15:43	06/02/13 17:20	321-60-8	8M
Terphenyl-d14 (S)	71 %		67-125		1	05/23/13 15:43	06/02/13 17:20	1718-51-0	
8260 VOC									
Analytical Method: EPA 8260									
Acetone	ND	ug/L	100	50.0	5		05/21/13 23:31	67-64-1	
Allyl chloride	ND	ug/L	20.0	1.1	5		05/21/13 23:31	107-05-1	
Benzene	2580	ug/L	20.0	4.8	20		05/23/13 09:33	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.2	5		05/21/13 23:31	108-86-1	
Bromochloromethane	ND	ug/L	5.0	2.5	5		05/21/13 23:31	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1.2	5		05/21/13 23:31	75-27-4	
Bromoform	ND	ug/L	20.0	10.0	5		05/21/13 23:31	75-25-2	
Bromomethane	ND	ug/L	20.0	10.0	5		05/21/13 23:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	12.5	5		05/21/13 23:31	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	2.5	5		05/21/13 23:31	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	2.5	5		05/21/13 23:31	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	2.5	5		05/21/13 23:31	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1.5	5		05/21/13 23:31	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.2	5		05/21/13 23:31	108-90-7	
Chloroethane	ND	ug/L	20.0	2.5	5		05/21/13 23:31	75-00-3	
Chloroform	ND	ug/L	5.0	1.4	5		05/21/13 23:31	67-66-3	
Chloromethane	ND	ug/L	20.0	10.0	5		05/21/13 23:31	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	2.5	5		05/21/13 23:31	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.1	5		05/21/13 23:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	10.0	5		05/21/13 23:31	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.3	5		05/21/13 23:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.2	5		05/21/13 23:31	106-93-4	
Dibromomethane	ND	ug/L	20.0	0.72	5		05/21/13 23:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.46	5		05/21/13 23:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	2.5	5		05/21/13 23:31	541-73-1	

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-10 **Lab ID: 10229180006** Collected: 05/16/13 17:00 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
1,4-Dichlorobenzene	ND	ug/L	5.0	2.5	5		05/21/13 23:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	2.0	5		05/21/13 23:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	2.5	5		05/21/13 23:31	75-34-3	L3
1,2-Dichloroethane	ND	ug/L	5.0	1.1	5		05/21/13 23:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1.2	5		05/21/13 23:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1.1	5		05/21/13 23:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.2	5		05/21/13 23:31	156-60-5	
Dichlorofluoromethane	ND	ug/L	5.0	1.0	5		05/21/13 23:31	75-43-4	
1,2-Dichloropropane	ND	ug/L	20.0	1.0	5		05/21/13 23:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	2.5	5		05/21/13 23:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	20.0	2.5	5		05/21/13 23:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1.2	5		05/21/13 23:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	20.0	2.5	5		05/21/13 23:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	10.0	5		05/21/13 23:31	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	20.0	10.0	5		05/21/13 23:31	60-29-7	
Ethylbenzene	23.6	ug/L	5.0	1.2	5		05/21/13 23:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	25.0	12.5	5		05/21/13 23:31	87-68-3	
Isopropylbenzene (Cumene)	6.6	ug/L	5.0	2.5	5		05/21/13 23:31	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	2.5	5		05/21/13 23:31	99-87-6	
Methylene Chloride	ND	ug/L	20.0	10.0	5		05/21/13 23:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	12.5	5		05/21/13 23:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.5	5		05/21/13 23:31	1634-04-4	
Naphthalene	ND	ug/L	20.0	10.0	5		05/21/13 23:31	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	2.5	5		05/21/13 23:31	103-65-1	
Styrene	ND	ug/L	5.0	1.2	5		05/21/13 23:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	2.5	5		05/21/13 23:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	0.64	5		05/21/13 23:31	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1.4	5		05/21/13 23:31	127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	14.7	5		05/21/13 23:31	109-99-9	
Toluene	29.1	ug/L	5.0	1.2	5		05/21/13 23:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	2.5	5		05/21/13 23:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	2.5	5		05/21/13 23:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	2.5	5		05/21/13 23:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.78	5		05/21/13 23:31	79-00-5	
Trichloroethene	ND	ug/L	5.0	2.5	5		05/21/13 23:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	0.66	5		05/21/13 23:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	20.0	2.7	5		05/21/13 23:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1.6	5		05/21/13 23:31	76-13-1	
1,2,4-Trimethylbenzene	7.9	ug/L	5.0	2.5	5		05/21/13 23:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	2.5	5		05/21/13 23:31	108-67-8	
Vinyl chloride	ND	ug/L	2.0	0.69	5		05/21/13 23:31	75-01-4	
Xylene (Total)	31.5	ug/L	15.0	3.6	5		05/21/13 23:31	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	75-125		5		05/21/13 23:31	17060-07-0	
Toluene-d8 (S)	105	%	75-125		5		05/21/13 23:31	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		5		05/21/13 23:31	460-00-4	

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ANALYTICAL RESULTS

Project: Superior MGP
Pace Project No.: 10229180

Sample: MW-10		Lab ID: 10229180006		Collected: 05/16/13 17:00	Received: 05/17/13 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	6.7	Std. Units	0.10	0.050	1		06/05/13 12:12		H6

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ANALYTICAL RESULTS

Project: Superior MGP
Pace Project No.: 10229180

Sample: MW-22 **Lab ID: 10229180007** Collected: 05/16/13 20:15 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM					Preparation Method: EPA 3510				
Acenaphthene	0.088	ug/L	0.041	0.0051	1	05/23/13 15:43	06/02/13 17:41	83-32-9	
Acenaphthylene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 17:41	208-96-8	
Anthracene	0.050	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 17:41	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 17:41	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.041	0.0021	1	05/23/13 15:43	06/02/13 17:41	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 17:41	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 17:41	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 17:41	207-08-9	
Chrysene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 17:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 17:41	53-70-3	
Fluoranthene	ND	ug/L	0.041	0.0031	1	05/23/13 15:43	06/02/13 17:41	206-44-0	
Fluorene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 17:41	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 17:41	193-39-5	
Naphthalene	0.40	ug/L	0.041	0.0041	1	05/23/13 15:43	06/02/13 17:41	91-20-3	
Phenanthrene	0.057	ug/L	0.041	0.0031	1	05/23/13 15:43	06/02/13 17:41	85-01-8	
Pyrene	ND	ug/L	0.041	0.0031	1	05/23/13 15:43	06/02/13 17:41	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67 %		55-125		1	05/23/13 15:43	06/02/13 17:41	321-60-8	2M
Terphenyl-d14 (S)	80 %		67-125		1	05/23/13 15:43	06/02/13 17:41	1718-51-0	
8260 VOC									
Analytical Method: EPA 8260									
Acetone	199	ug/L	20.0	10.0	1		05/24/13 04:45	67-64-1	
Allyl chloride	ND	ug/L	4.0	0.23	1		05/24/13 04:45	107-05-1	
Benzene	4.5	ug/L	1.0	0.24	1		05/24/13 04:45	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.23	1		05/24/13 04:45	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.50	1		05/24/13 04:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.25	1		05/24/13 04:45	75-27-4	
Bromoform	ND	ug/L	4.0	2.0	1		05/24/13 04:45	75-25-2	
Bromomethane	ND	ug/L	4.0	2.0	1		05/24/13 04:45	74-83-9	CL
2-Butanone (MEK)	10.2	ug/L	5.0	2.5	1		05/24/13 04:45	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.50	1		05/24/13 04:45	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.50	1		05/24/13 04:45	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.50	1		05/24/13 04:45	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.31	1		05/24/13 04:45	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.24	1		05/24/13 04:45	108-90-7	
Chloroethane	ND	ug/L	1.0	0.50	1		05/24/13 04:45	75-00-3	
Chloroform	ND	ug/L	1.0	0.27	1		05/24/13 04:45	67-66-3	
Chloromethane	ND	ug/L	4.0	2.0	1		05/24/13 04:45	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.50	1		05/24/13 04:45	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.23	1		05/24/13 04:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2.0	1		05/24/13 04:45	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.27	1		05/24/13 04:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.23	1		05/24/13 04:45	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.14	1		05/24/13 04:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.092	1		05/24/13 04:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.50	1		05/24/13 04:45	541-73-1	

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-22 **Lab ID: 10229180007** Collected: 05/16/13 20:15 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
1,4-Dichlorobenzene	ND	ug/L	1.0	0.50	1		05/24/13 04:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/24/13 04:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		05/24/13 04:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.22	1		05/24/13 04:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		05/24/13 04:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.23	1		05/24/13 04:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.24	1		05/24/13 04:45	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/24/13 04:45	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.20	1		05/24/13 04:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.50	1		05/24/13 04:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.50	1		05/24/13 04:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.25	1		05/24/13 04:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.50	1		05/24/13 04:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	2.0	1		05/24/13 04:45	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	2.0	1		05/24/13 04:45	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.24	1		05/24/13 04:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	2.5	1		05/24/13 04:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.50	1		05/24/13 04:45	98-82-8	
p-Isopropyltoluene	1.8	ug/L	1.0	0.50	1		05/24/13 04:45	99-87-6	
Methylene Chloride	ND	ug/L	4.0	2.0	1		05/24/13 04:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	2.5	1		05/24/13 04:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.50	1		05/24/13 04:45	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.0	1		05/24/13 04:45	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.50	1		05/24/13 04:45	103-65-1	
Styrene	ND	ug/L	1.0	0.24	1		05/24/13 04:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		05/24/13 04:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.13	1		05/24/13 04:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.29	1		05/24/13 04:45	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	2.9	1		05/24/13 04:45	109-99-9	
Toluene	1.9	ug/L	1.0	0.23	1		05/24/13 04:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.50	1		05/24/13 04:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.50	1		05/24/13 04:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.50	1		05/24/13 04:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.16	1		05/24/13 04:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.50	1		05/24/13 04:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.13	1		05/24/13 04:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.54	1		05/24/13 04:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.33	1		05/24/13 04:45	76-13-1	
1,2,4-Trimethylbenzene	7.3	ug/L	1.0	0.50	1		05/24/13 04:45	95-63-6	
1,3,5-Trimethylbenzene	4.4	ug/L	1.0	0.50	1		05/24/13 04:45	108-67-8	
Vinyl chloride	ND	ug/L	0.40	0.14	1		05/24/13 04:45	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.72	1		05/24/13 04:45	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%	75-125		1		05/24/13 04:45	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1		05/24/13 04:45	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1		05/24/13 04:45	460-00-4	

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-22 **Lab ID: 10229180007** Collected: 05/16/13 20:15 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
pH at 25 Degrees C	12.5	Std. Units	0.10	0.050	1		06/05/13 12:13		E,H6

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-6 **Lab ID: 10229180008** Collected: 05/17/13 07:15 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM					Preparation Method: EPA 3510				
Acenaphthene	2.1	ug/L	0.040	0.0051	1	05/23/13 15:43	06/02/13 18:02	83-32-9	
Acenaphthylene	0.10	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 18:02	208-96-8	
Anthracene	0.22	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 18:02	120-12-7	
Benzo(a)anthracene	0.049	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 18:02	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.040	0.0020	1	05/23/13 15:43	06/02/13 18:02	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 18:02	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 18:02	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 18:02	207-08-9	
Chrysene	0.047	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 18:02	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 18:02	53-70-3	
Fluoranthene	0.42	ug/L	0.040	0.0030	1	05/23/13 15:43	06/02/13 18:02	206-44-0	
Fluorene	0.30	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 18:02	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.040	0.020	1	05/23/13 15:43	06/02/13 18:02	193-39-5	
Naphthalene	7.1	ug/L	0.040	0.0040	1	05/23/13 15:43	06/02/13 18:02	91-20-3	
Phenanthrene	1.3	ug/L	0.040	0.0030	1	05/23/13 15:43	06/02/13 18:02	85-01-8	
Pyrene	0.50	ug/L	0.040	0.0030	1	05/23/13 15:43	06/02/13 18:02	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62 %		55-125		1	05/23/13 15:43	06/02/13 18:02	321-60-8	4M
Terphenyl-d14 (S)	82 %		67-125		1	05/23/13 15:43	06/02/13 18:02	1718-51-0	
8260 VOC									
Analytical Method: EPA 8260									
Acetone	37.8	ug/L	20.0	10.0	1		05/21/13 19:26	67-64-1	
Allyl chloride	ND	ug/L	4.0	0.23	1		05/21/13 19:26	107-05-1	
Benzene	1.3	ug/L	1.0	0.24	1		05/21/13 19:26	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.23	1		05/21/13 19:26	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.50	1		05/21/13 19:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.25	1		05/21/13 19:26	75-27-4	
Bromoform	ND	ug/L	4.0	2.0	1		05/21/13 19:26	75-25-2	
Bromomethane	ND	ug/L	4.0	2.0	1		05/21/13 19:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	2.5	1		05/21/13 19:26	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.50	1		05/21/13 19:26	104-51-8	M1
sec-Butylbenzene	ND	ug/L	1.0	0.50	1		05/21/13 19:26	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.50	1		05/21/13 19:26	98-06-6	M1
Carbon tetrachloride	ND	ug/L	1.0	0.31	1		05/21/13 19:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.24	1		05/21/13 19:26	108-90-7	
Chloroethane	ND	ug/L	4.0	0.50	1		05/21/13 19:26	75-00-3	
Chloroform	ND	ug/L	1.0	0.27	1		05/21/13 19:26	67-66-3	
Chloromethane	ND	ug/L	4.0	2.0	1		05/21/13 19:26	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.50	1		05/21/13 19:26	95-49-8	M1
4-Chlorotoluene	ND	ug/L	1.0	0.23	1		05/21/13 19:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2.0	1		05/21/13 19:26	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.27	1		05/21/13 19:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.23	1		05/21/13 19:26	106-93-4	M1
Dibromomethane	ND	ug/L	4.0	0.14	1		05/21/13 19:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.092	1		05/21/13 19:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.50	1		05/21/13 19:26	541-73-1	

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-6 **Lab ID: 10229180008** Collected: 05/17/13 07:15 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
1,4-Dichlorobenzene	ND	ug/L	1.0	0.50	1		05/21/13 19:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/21/13 19:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		05/21/13 19:26	75-34-3	L3,M0
1,2-Dichloroethane	ND	ug/L	1.0	0.22	1		05/21/13 19:26	107-06-2	M1
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		05/21/13 19:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.23	1		05/21/13 19:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.24	1		05/21/13 19:26	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/21/13 19:26	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.20	1		05/21/13 19:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.50	1		05/21/13 19:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.50	1		05/21/13 19:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.25	1		05/21/13 19:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.50	1		05/21/13 19:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	2.0	1		05/21/13 19:26	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	2.0	1		05/21/13 19:26	60-29-7	
Ethylbenzene	1.7	ug/L	1.0	0.24	1		05/21/13 19:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	2.5	1		05/21/13 19:26	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.50	1		05/21/13 19:26	98-82-8	
p-Isopropyltoluene	1.7	ug/L	1.0	0.50	1		05/21/13 19:26	99-87-6	
Methylene Chloride	ND	ug/L	4.0	2.0	1		05/21/13 19:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	2.5	1		05/21/13 19:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.50	1		05/21/13 19:26	1634-04-4	
Naphthalene	14.7	ug/L	4.0	2.0	1		05/21/13 19:26	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.50	1		05/21/13 19:26	103-65-1	M1
Styrene	ND	ug/L	1.0	0.24	1		05/21/13 19:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		05/21/13 19:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.13	1		05/21/13 19:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.29	1		05/21/13 19:26	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	2.9	1		05/21/13 19:26	109-99-9	
Toluene	ND	ug/L	1.0	0.23	1		05/21/13 19:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.50	1		05/21/13 19:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.50	1		05/21/13 19:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.50	1		05/21/13 19:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.16	1		05/21/13 19:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.50	1		05/21/13 19:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.13	1		05/21/13 19:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.54	1		05/21/13 19:26	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.33	1		05/21/13 19:26	76-13-1	M1
1,2,4-Trimethylbenzene	1.3	ug/L	1.0	0.50	1		05/21/13 19:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.50	1		05/21/13 19:26	108-67-8	M1
Vinyl chloride	ND	ug/L	0.40	0.14	1		05/21/13 19:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.72	1		05/21/13 19:26	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	100 %		75-125		1		05/21/13 19:26	17060-07-0	
Toluene-d8 (S)	100 %		75-125		1		05/21/13 19:26	2037-26-5	
4-Bromofluorobenzene (S)	106 %		75-125		1		05/21/13 19:26	460-00-4	

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-6 **Lab ID: 10229180008** Collected: 05/17/13 07:15 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
pH at 25 Degrees C	12.2	Std. Units	0.10	0.050	1		06/05/13 12:14		H6

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-11 **Lab ID: 10229180009** Collected: 05/17/13 08:00 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM					Preparation Method: EPA 3510				
Acenaphthene	2.0	ug/L	0.041	0.0052	1	05/23/13 15:43	06/02/13 18:22	83-32-9	
Acenaphthylene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:22	208-96-8	
Anthracene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:22	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:22	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.041	0.0021	1	05/23/13 15:43	06/02/13 18:22	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:22	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:22	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:22	207-08-9	
Chrysene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:22	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:22	53-70-3	
Fluoranthene	ND	ug/L	0.041	0.0031	1	05/23/13 15:43	06/02/13 18:22	206-44-0	
Fluorene	0.33	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:22	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:22	193-39-5	
Naphthalene	0.27	ug/L	0.041	0.0041	1	05/23/13 15:43	06/02/13 18:22	91-20-3	
Phenanthrene	0.17	ug/L	0.041	0.0031	1	05/23/13 15:43	06/02/13 18:22	85-01-8	
Pyrene	ND	ug/L	0.041	0.0031	1	05/23/13 15:43	06/02/13 18:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71 %		55-125		1	05/23/13 15:43	06/02/13 18:22	321-60-8	4M
Terphenyl-d14 (S)	81 %		67-125		1	05/23/13 15:43	06/02/13 18:22	1718-51-0	
8260 VOC									
Analytical Method: EPA 8260									
Acetone	ND	ug/L	20.0	10.0	1		05/21/13 19:42	67-64-1	
Allyl chloride	ND	ug/L	4.0	0.23	1		05/21/13 19:42	107-05-1	
Benzene	ND	ug/L	1.0	0.24	1		05/21/13 19:42	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.23	1		05/21/13 19:42	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.50	1		05/21/13 19:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.25	1		05/21/13 19:42	75-27-4	
Bromoform	ND	ug/L	4.0	2.0	1		05/21/13 19:42	75-25-2	
Bromomethane	ND	ug/L	4.0	2.0	1		05/21/13 19:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	2.5	1		05/21/13 19:42	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.50	1		05/21/13 19:42	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.50	1		05/21/13 19:42	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.50	1		05/21/13 19:42	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.31	1		05/21/13 19:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.24	1		05/21/13 19:42	108-90-7	
Chloroethane	ND	ug/L	4.0	0.50	1		05/21/13 19:42	75-00-3	
Chloroform	ND	ug/L	1.0	0.27	1		05/21/13 19:42	67-66-3	
Chloromethane	ND	ug/L	4.0	2.0	1		05/21/13 19:42	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.50	1		05/21/13 19:42	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.23	1		05/21/13 19:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2.0	1		05/21/13 19:42	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.27	1		05/21/13 19:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.23	1		05/21/13 19:42	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.14	1		05/21/13 19:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.092	1		05/21/13 19:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.50	1		05/21/13 19:42	541-73-1	

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ANALYTICAL RESULTS

Project: Superior MGP
Pace Project No.: 10229180

Sample: MW-11 Lab ID: 10229180009 Collected: 05/17/13 08:00 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
1,4-Dichlorobenzene	ND ug/L		1.0	0.50	1		05/21/13 19:42	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.40	1		05/21/13 19:42	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.50	1		05/21/13 19:42	75-34-3	L3
1,2-Dichloroethane	ND ug/L		1.0	0.22	1		05/21/13 19:42	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.24	1		05/21/13 19:42	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.23	1		05/21/13 19:42	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.24	1		05/21/13 19:42	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	0.20	1		05/21/13 19:42	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	0.20	1		05/21/13 19:42	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.50	1		05/21/13 19:42	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	0.50	1		05/21/13 19:42	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.25	1		05/21/13 19:42	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	0.50	1		05/21/13 19:42	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	2.0	1		05/21/13 19:42	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	2.0	1		05/21/13 19:42	60-29-7	
Ethylbenzene	ND ug/L		1.0	0.24	1		05/21/13 19:42	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	2.5	1		05/21/13 19:42	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	0.50	1		05/21/13 19:42	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	0.50	1		05/21/13 19:42	99-87-6	
Methylene Chloride	ND ug/L		4.0	2.0	1		05/21/13 19:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	2.5	1		05/21/13 19:42	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.50	1		05/21/13 19:42	1634-04-4	
Naphthalene	ND ug/L		4.0	2.0	1		05/21/13 19:42	91-20-3	
n-Propylbenzene	ND ug/L		1.0	0.50	1		05/21/13 19:42	103-65-1	
Styrene	ND ug/L		1.0	0.24	1		05/21/13 19:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.50	1		05/21/13 19:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.13	1		05/21/13 19:42	79-34-5	
Tetrachloroethene	ND ug/L		1.0	0.29	1		05/21/13 19:42	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	2.9	1		05/21/13 19:42	109-99-9	
Toluene	ND ug/L		1.0	0.23	1		05/21/13 19:42	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.50	1		05/21/13 19:42	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.50	1		05/21/13 19:42	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.50	1		05/21/13 19:42	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.16	1		05/21/13 19:42	79-00-5	
Trichloroethene	ND ug/L		1.0	0.50	1		05/21/13 19:42	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.13	1		05/21/13 19:42	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	0.54	1		05/21/13 19:42	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	0.33	1		05/21/13 19:42	76-13-1	
1,2,4-Trimethylbenzene	1.3 ug/L		1.0	0.50	1		05/21/13 19:42	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	0.50	1		05/21/13 19:42	108-67-8	
Vinyl chloride	ND ug/L		0.40	0.14	1		05/21/13 19:42	75-01-4	
Xylene (Total)	ND ug/L		3.0	0.72	1		05/21/13 19:42	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101 %		75-125		1		05/21/13 19:42	17060-07-0	
Toluene-d8 (S)	99 %		75-125		1		05/21/13 19:42	2037-26-5	
4-Bromofluorobenzene (S)	102 %		75-125		1		05/21/13 19:42	460-00-4	

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ANALYTICAL RESULTS

Project: Superior MGP
Pace Project No.: 10229180

Sample: MW-11		Lab ID: 10229180009		Collected: 05/17/13 08:00	Received: 05/17/13 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	6.7	Std. Units	0.10	0.050	1		06/05/13 12:15		H6	

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ANALYTICAL RESULTS

Project: Superior MGP
Pace Project No.: 10229180

Sample: MW-22D Lab ID: 10229180010 Collected: 05/16/13 20:15 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	0.085	ug/L	0.041	0.0051	1	05/23/13 15:43	06/02/13 18:43	83-32-9	
Acenaphthylene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:43	208-96-8	
Anthracene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:43	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:43	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.041	0.0021	1	05/23/13 15:43	06/02/13 18:43	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:43	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:43	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:43	207-08-9	
Chrysene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:43	53-70-3	
Fluoranthene	ND	ug/L	0.041	0.0031	1	05/23/13 15:43	06/02/13 18:43	206-44-0	
Fluorene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:43	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.041	0.021	1	05/23/13 15:43	06/02/13 18:43	193-39-5	
Naphthalene	0.41	ug/L	0.041	0.0041	1	05/23/13 15:43	06/02/13 18:43	91-20-3	
Phenanthrene	0.062	ug/L	0.041	0.0031	1	05/23/13 15:43	06/02/13 18:43	85-01-8	
Pyrene	ND	ug/L	0.041	0.0031	1	05/23/13 15:43	06/02/13 18:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66 %		55-125		1	05/23/13 15:43	06/02/13 18:43	321-60-8	4M
Terphenyl-d14 (S)	81 %		67-125		1	05/23/13 15:43	06/02/13 18:43	1718-51-0	
8260 VOC									
Analytical Method: EPA 8260									
Acetone	201	ug/L	20.0	10.0	1		05/24/13 05:09	67-64-1	
Allyl chloride	ND	ug/L	4.0	0.23	1		05/24/13 05:09	107-05-1	
Benzene	4.4	ug/L	1.0	0.24	1		05/24/13 05:09	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.23	1		05/24/13 05:09	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.50	1		05/24/13 05:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.25	1		05/24/13 05:09	75-27-4	
Bromoform	ND	ug/L	4.0	2.0	1		05/24/13 05:09	75-25-2	
Bromomethane	ND	ug/L	4.0	2.0	1		05/24/13 05:09	74-83-9	CL
2-Butanone (MEK)	10.3	ug/L	5.0	2.5	1		05/24/13 05:09	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.50	1		05/24/13 05:09	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.50	1		05/24/13 05:09	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.50	1		05/24/13 05:09	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.31	1		05/24/13 05:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.24	1		05/24/13 05:09	108-90-7	
Chloroethane	ND	ug/L	1.0	0.50	1		05/24/13 05:09	75-00-3	
Chloroform	ND	ug/L	1.0	0.27	1		05/24/13 05:09	67-66-3	
Chloromethane	ND	ug/L	4.0	2.0	1		05/24/13 05:09	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.50	1		05/24/13 05:09	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.23	1		05/24/13 05:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2.0	1		05/24/13 05:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.27	1		05/24/13 05:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.23	1		05/24/13 05:09	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.14	1		05/24/13 05:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.092	1		05/24/13 05:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.50	1		05/24/13 05:09	541-73-1	

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: MW-22D **Lab ID: 10229180010** Collected: 05/16/13 20:15 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
1,4-Dichlorobenzene	ND	ug/L	1.0	0.50	1		05/24/13 05:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/24/13 05:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		05/24/13 05:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.22	1		05/24/13 05:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		05/24/13 05:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.23	1		05/24/13 05:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.24	1		05/24/13 05:09	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/24/13 05:09	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.20	1		05/24/13 05:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.50	1		05/24/13 05:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.50	1		05/24/13 05:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.25	1		05/24/13 05:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.50	1		05/24/13 05:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	2.0	1		05/24/13 05:09	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	2.0	1		05/24/13 05:09	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.24	1		05/24/13 05:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	2.5	1		05/24/13 05:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.50	1		05/24/13 05:09	98-82-8	
p-Isopropyltoluene	1.8	ug/L	1.0	0.50	1		05/24/13 05:09	99-87-6	
Methylene Chloride	ND	ug/L	4.0	2.0	1		05/24/13 05:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	2.5	1		05/24/13 05:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.50	1		05/24/13 05:09	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.0	1		05/24/13 05:09	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.50	1		05/24/13 05:09	103-65-1	
Styrene	ND	ug/L	1.0	0.24	1		05/24/13 05:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		05/24/13 05:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.13	1		05/24/13 05:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.29	1		05/24/13 05:09	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	2.9	1		05/24/13 05:09	109-99-9	
Toluene	1.9	ug/L	1.0	0.23	1		05/24/13 05:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.50	1		05/24/13 05:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.50	1		05/24/13 05:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.50	1		05/24/13 05:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.16	1		05/24/13 05:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.50	1		05/24/13 05:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.13	1		05/24/13 05:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.54	1		05/24/13 05:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.33	1		05/24/13 05:09	76-13-1	
1,2,4-Trimethylbenzene	7.1	ug/L	1.0	0.50	1		05/24/13 05:09	95-63-6	
1,3,5-Trimethylbenzene	4.4	ug/L	1.0	0.50	1		05/24/13 05:09	108-67-8	
Vinyl chloride	ND	ug/L	0.40	0.14	1		05/24/13 05:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.72	1		05/24/13 05:09	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%	75-125		1		05/24/13 05:09	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1		05/24/13 05:09	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1		05/24/13 05:09	460-00-4	

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-22D									
Lab ID: 10229180010									
Collected: 05/16/13 20:15									
Received: 05/17/13 16:00									
Matrix: Water									
Analytical Method: SM 4500-H+B									
4500H+ pH, Electrometric									
pH at 25 Degrees C	12.5	Std. Units	0.10	0.050	1		06/05/13 12:17		E,H6

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: Trip Blank **Lab ID: 10229180011** Collected: 05/16/13 00:00 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
Acetone	ND ug/L		20.0	10.0	1		05/24/13 01:09	67-64-1	
Allyl chloride	ND ug/L		4.0	0.23	1		05/24/13 01:09	107-05-1	
Benzene	ND ug/L		1.0	0.24	1		05/24/13 01:09	71-43-2	
Bromobenzene	ND ug/L		1.0	0.23	1		05/24/13 01:09	108-86-1	
Bromochloromethane	ND ug/L		1.0	0.50	1		05/24/13 01:09	74-97-5	
Bromodichloromethane	ND ug/L		1.0	0.25	1		05/24/13 01:09	75-27-4	
Bromoform	ND ug/L		4.0	2.0	1		05/24/13 01:09	75-25-2	
Bromomethane	ND ug/L		4.0	2.0	1		05/24/13 01:09	74-83-9	CL
2-Butanone (MEK)	ND ug/L		5.0	2.5	1		05/24/13 01:09	78-93-3	
n-Butylbenzene	ND ug/L		1.0	0.50	1		05/24/13 01:09	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	0.50	1		05/24/13 01:09	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	0.50	1		05/24/13 01:09	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	0.31	1		05/24/13 01:09	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.24	1		05/24/13 01:09	108-90-7	
Chloroethane	ND ug/L		1.0	0.50	1		05/24/13 01:09	75-00-3	
Chloroform	ND ug/L		1.0	0.27	1		05/24/13 01:09	67-66-3	
Chloromethane	ND ug/L		4.0	2.0	1		05/24/13 01:09	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.50	1		05/24/13 01:09	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.23	1		05/24/13 01:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	2.0	1		05/24/13 01:09	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.27	1		05/24/13 01:09	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.23	1		05/24/13 01:09	106-93-4	
Dibromomethane	ND ug/L		4.0	0.14	1		05/24/13 01:09	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.092	1		05/24/13 01:09	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.50	1		05/24/13 01:09	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.50	1		05/24/13 01:09	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.40	1		05/24/13 01:09	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.50	1		05/24/13 01:09	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.22	1		05/24/13 01:09	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.24	1		05/24/13 01:09	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.23	1		05/24/13 01:09	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.24	1		05/24/13 01:09	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	0.20	1		05/24/13 01:09	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	0.20	1		05/24/13 01:09	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.50	1		05/24/13 01:09	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	0.50	1		05/24/13 01:09	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.25	1		05/24/13 01:09	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	0.50	1		05/24/13 01:09	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	2.0	1		05/24/13 01:09	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	2.0	1		05/24/13 01:09	60-29-7	
Ethylbenzene	ND ug/L		1.0	0.24	1		05/24/13 01:09	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		5.0	2.5	1		05/24/13 01:09	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	0.50	1		05/24/13 01:09	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	0.50	1		05/24/13 01:09	99-87-6	
Methylene Chloride	ND ug/L		4.0	2.0	1		05/24/13 01:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	2.5	1		05/24/13 01:09	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Superior MGP

Pace Project No.: 10229180

Sample: Trip Blank **Lab ID: 10229180011** Collected: 05/16/13 00:00 Received: 05/17/13 16:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
Methyl-tert-butyl ether	ND ug/L		1.0	0.50	1		05/24/13 01:09	1634-04-4	
Naphthalene	ND ug/L		4.0	2.0	1		05/24/13 01:09	91-20-3	
n-Propylbenzene	ND ug/L		1.0	0.50	1		05/24/13 01:09	103-65-1	
Styrene	ND ug/L		1.0	0.24	1		05/24/13 01:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.50	1		05/24/13 01:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.13	1		05/24/13 01:09	79-34-5	
Tetrachloroethene	ND ug/L		1.0	0.29	1		05/24/13 01:09	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	2.9	1		05/24/13 01:09	109-99-9	
Toluene	ND ug/L		1.0	0.23	1		05/24/13 01:09	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.50	1		05/24/13 01:09	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.50	1		05/24/13 01:09	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.50	1		05/24/13 01:09	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.16	1		05/24/13 01:09	79-00-5	
Trichloroethene	ND ug/L		1.0	0.50	1		05/24/13 01:09	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.13	1		05/24/13 01:09	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	0.54	1		05/24/13 01:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	0.33	1		05/24/13 01:09	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	0.50	1		05/24/13 01:09	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	0.50	1		05/24/13 01:09	108-67-8	
Vinyl chloride	ND ug/L		0.40	0.14	1		05/24/13 01:09	75-01-4	
Xylene (Total)	ND ug/L		3.0	0.72	1		05/24/13 01:09	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101 %		75-125		1		05/24/13 01:09	17060-07-0	
Toluene-d8 (S)	99 %		75-125		1		05/24/13 01:09	2037-26-5	
4-Bromofluorobenzene (S)	103 %		75-125		1		05/24/13 01:09	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Superior MGP

Pace Project No.: 10229180

QC Batch: MSV/23758

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 465 W

Associated Lab Samples: 10229180003, 10229180004, 10229180005, 10229180006, 10229180008, 10229180009

METHOD BLANK: 1437218

Matrix: Water

Associated Lab Samples: 10229180003, 10229180004, 10229180005, 10229180006, 10229180008, 10229180009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/21/13 19:11	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/21/13 19:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/21/13 19:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/21/13 19:11	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/21/13 19:11	
1,1-Dichloroethane	ug/L	ND	1.0	05/21/13 19:11	
1,1-Dichloroethene	ug/L	ND	1.0	05/21/13 19:11	
1,1-Dichloropropene	ug/L	ND	1.0	05/21/13 19:11	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/21/13 19:11	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/21/13 19:11	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/21/13 19:11	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/21/13 19:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/21/13 19:11	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/21/13 19:11	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/21/13 19:11	
1,2-Dichloroethane	ug/L	ND	1.0	05/21/13 19:11	
1,2-Dichloropropane	ug/L	ND	4.0	05/21/13 19:11	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/21/13 19:11	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/21/13 19:11	
1,3-Dichloropropane	ug/L	ND	1.0	05/21/13 19:11	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/21/13 19:11	
2,2-Dichloropropane	ug/L	ND	4.0	05/21/13 19:11	
2-Butanone (MEK)	ug/L	ND	5.0	05/21/13 19:11	
2-Chlorotoluene	ug/L	ND	1.0	05/21/13 19:11	
4-Chlorotoluene	ug/L	ND	1.0	05/21/13 19:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/21/13 19:11	
Acetone	ug/L	ND	20.0	05/21/13 19:11	
Allyl chloride	ug/L	ND	4.0	05/21/13 19:11	
Benzene	ug/L	ND	1.0	05/21/13 19:11	
Bromobenzene	ug/L	ND	1.0	05/21/13 19:11	
Bromochloromethane	ug/L	ND	1.0	05/21/13 19:11	
Bromodichloromethane	ug/L	ND	1.0	05/21/13 19:11	
Bromoform	ug/L	ND	4.0	05/21/13 19:11	
Bromomethane	ug/L	ND	4.0	05/21/13 19:11	
Carbon tetrachloride	ug/L	ND	1.0	05/21/13 19:11	
Chlorobenzene	ug/L	ND	1.0	05/21/13 19:11	
Chloroethane	ug/L	ND	4.0	05/21/13 19:11	
Chloroform	ug/L	ND	1.0	05/21/13 19:11	
Chloromethane	ug/L	ND	4.0	05/21/13 19:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/21/13 19:11	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/21/13 19:11	
Dibromochloromethane	ug/L	ND	1.0	05/21/13 19:11	
Dibromomethane	ug/L	ND	4.0	05/21/13 19:11	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Superior MGP

Project No.: 10229180

METHOD BLANK: 1437218

Matrix: Water

Associated Lab Samples: 10229180003, 10229180004, 10229180005, 10229180006, 10229180008, 10229180009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	05/21/13 19:11	
Dichlorofluoromethane	ug/L	ND	1.0	05/21/13 19:11	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/21/13 19:11	
Ethylbenzene	ug/L	ND	1.0	05/21/13 19:11	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/21/13 19:11	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/21/13 19:11	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/21/13 19:11	
Methylene Chloride	ug/L	ND	4.0	05/21/13 19:11	
n-Butylbenzene	ug/L	ND	1.0	05/21/13 19:11	
n-Propylbenzene	ug/L	ND	1.0	05/21/13 19:11	
Naphthalene	ug/L	ND	4.0	05/21/13 19:11	
p-Isopropyltoluene	ug/L	ND	1.0	05/21/13 19:11	
sec-Butylbenzene	ug/L	ND	1.0	05/21/13 19:11	
Styrene	ug/L	ND	1.0	05/21/13 19:11	
tert-Butylbenzene	ug/L	ND	1.0	05/21/13 19:11	
Tetrachloroethene	ug/L	ND	1.0	05/21/13 19:11	
Tetrahydrofuran	ug/L	ND	10.0	05/21/13 19:11	
Toluene	ug/L	ND	1.0	05/21/13 19:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/21/13 19:11	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/21/13 19:11	
Trichloroethene	ug/L	ND	1.0	05/21/13 19:11	
Trichlorofluoromethane	ug/L	ND	1.0	05/21/13 19:11	
Vinyl chloride	ug/L	ND	0.40	05/21/13 19:11	
Xylene (Total)	ug/L	ND	3.0	05/21/13 19:11	
1,2-Dichloroethane-d4 (S)	%	105	75-125	05/21/13 19:11	
4-Bromofluorobenzene (S)	%	103	75-125	05/21/13 19:11	
Toluene-d8 (S)	%	97	75-125	05/21/13 19:11	

LABORATORY CONTROL SAMPLE: 1437219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.5	108	75-125	
1,1,1-Trichloroethane	ug/L	20	22.8	114	75-126	
1,1,2,2-Tetrachloroethane	ug/L	20	23.0	115	75-125	
1,1,2-Trichloroethane	ug/L	20	20.9	104	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	17.9	90	51-139	
1,1-Dichloroethane	ug/L	20	25.1	126	75-125	L0
1,1-Dichloroethene	ug/L	20	21.5	107	71-126	
1,1-Dichloropropene	ug/L	20	22.5	112	74-125	
1,2,3-Trichlorobenzene	ug/L	20	21.1	105	75-125	
1,2,3-Trichloropropane	ug/L	20	20.9	104	75-125	
1,2,4-Trichlorobenzene	ug/L	20	21.4	107	75-125	
1,2,4-Trimethylbenzene	ug/L	20	22.7	113	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	50.8	102	73-125	
1,2-Dibromoethane (EDB)	ug/L	20	21.0	105	75-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Superior MGP

Pace Project No.: 10229180

LABORATORY CONTROL SAMPLE: 1437219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	21.2	106	75-125	
1,2-Dichloroethane	ug/L	20	25.0	125	74-125	
1,2-Dichloropropane	ug/L	20	21.9	110	75-125	
1,3,5-Trimethylbenzene	ug/L	20	21.9	109	75-125	
1,3-Dichlorobenzene	ug/L	20	21.5	107	75-125	
1,3-Dichloropropane	ug/L	20	21.4	107	75-125	
1,4-Dichlorobenzene	ug/L	20	20.6	103	75-125	
2,2-Dichloropropane	ug/L	20	24.0	120	67-132	
2-Butanone (MEK)	ug/L	100	109	109	68-126	
2-Chlorotoluene	ug/L	20	21.1	106	74-125	
4-Chlorotoluene	ug/L	20	21.1	105	74-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	72-125	
Acetone	ug/L	100	102	102	69-132	
Allyl chloride	ug/L	20	22.7	113	74-125	
Benzene	ug/L	20	20.9	105	75-125	
Bromobenzene	ug/L	20	20.4	102	75-125	
Bromochloromethane	ug/L	20	23.5	118	75-125	
Bromodichloromethane	ug/L	20	22.2	111	75-125	
Bromoform	ug/L	20	20.9	105	75-126	
Bromomethane	ug/L	20	20.9	105	30-150	SS
Carbon tetrachloride	ug/L	20	22.2	111	74-127	
Chlorobenzene	ug/L	20	21.0	105	75-125	
Chloroethane	ug/L	20	23.1	116	68-132	
Chloroform	ug/L	20	22.8	114	75-125	
Chloromethane	ug/L	20	19.5	97	61-129	
cis-1,2-Dichloroethene	ug/L	20	22.4	112	75-125	
cis-1,3-Dichloropropene	ug/L	20	24.0	120	75-125	
Dibromochloromethane	ug/L	20	22.3	111	75-125	
Dibromomethane	ug/L	20	23.0	115	75-125	
Dichlorodifluoromethane	ug/L	20	13.7	68	49-137	
Dichlorofluoromethane	ug/L	20	22.8	114	66-133	
Diethyl ether (Ethyl ether)	ug/L	20	21.3	107	75-125	
Ethylbenzene	ug/L	20	20.1	101	75-125	
Hexachloro-1,3-butadiene	ug/L	20	20.8	104	69-127	
Isopropylbenzene (Cumene)	ug/L	20	19.9	100	75-125	
Methyl-tert-butyl ether	ug/L	20	21.1	106	74-126	
Methylene Chloride	ug/L	20	19.1	95	75-125	
n-Butylbenzene	ug/L	20	23.3	116	72-126	
n-Propylbenzene	ug/L	20	22.9	114	73-125	
Naphthalene	ug/L	20	22.0	110	75-125	
p-Isopropyltoluene	ug/L	20	22.0	110	74-125	
sec-Butylbenzene	ug/L	20	21.6	108	73-125	
Styrene	ug/L	20	21.1	106	75-125	
tert-Butylbenzene	ug/L	20	22.4	112	73-125	
Tetrachloroethene	ug/L	20	20.0	100	75-125	
Tetrahydrofuran	ug/L	200	250	125	71-125	
Toluene	ug/L	20	20.7	103	75-125	
trans-1,2-Dichloroethene	ug/L	20	22.5	113	74-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Superior MGP

Pace Project No.: 10229180

LABORATORY CONTROL SAMPLE: 1437219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	20	19.1	96	75-125	
Trichloroethene	ug/L	20	21.7	109	75-125	
Trichlorofluoromethane	ug/L	20	18.8	94	69-129	
Vinyl chloride	ug/L	20	22.7	113	70-128	
Xylene (Total)	ug/L	60	61.7	103	75-125	
1,2-Dichloroethane-d4 (S)	%			113	75-125	
4-Bromofluorobenzene (S)	%			105	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE SAMPLE: 1437220

Parameter	Units	10229180008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	24.2	121	75-125	
1,1,1-Trichloroethane	ug/L	ND	20	24.6	123	75-136	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	24.1	121	66-131	
1,1,2-Trichloroethane	ug/L	ND	20	21.3	106	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	33.0	165	75-150	M1
1,1-Dichloroethane	ug/L	ND	20	26.7	134	75-131	M0
1,1-Dichloroethene	ug/L	ND	20	26.7	133	75-138	
1,1-Dichloropropene	ug/L	ND	20	24.8	124	75-136	
1,2,3-Trichlorobenzene	ug/L	ND	20	21.2	106	75-125	
1,2,3-Trichloropropane	ug/L	ND	20	22.7	113	71-126	
1,2,4-Trichlorobenzene	ug/L	ND	20	22.3	111	75-125	
1,2,4-Trimethylbenzene	ug/L	1.3	20	25.2	119	70-126	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	51.5	103	69-127	
1,2-Dibromoethane (EDB)	ug/L	ND	20	25.3	126	75-125	M1
1,2-Dichlorobenzene	ug/L	ND	20	21.5	107	75-125	
1,2-Dichloroethane	ug/L	ND	20	25.7	129	74-128	M1
1,2-Dichloropropane	ug/L	ND	20	23.2	116	75-125	
1,3,5-Trimethylbenzene	ug/L	ND	20	26.3	129	72-126	M1
1,3-Dichlorobenzene	ug/L	ND	20	21.9	109	75-125	
1,3-Dichloropropane	ug/L	ND	20	23.6	118	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	21.6	107	75-125	
2,2-Dichloropropane	ug/L	ND	20	28.7	143	71-143	
2-Butanone (MEK)	ug/L	ND	100	109	109	64-125	
2-Chlorotoluene	ug/L	ND	20	25.7	129	74-125	M1
4-Chlorotoluene	ug/L	ND	20	25.0	125	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	110	110	69-125	
Acetone	ug/L	37.8	100	144	106	57-135	
Allyl chloride	ug/L	ND	20	26.1	131	73-134	
Benzene	ug/L	1.3	20	25.3	120	70-135	
Bromobenzene	ug/L	ND	20	24.2	121	75-125	
Bromochloromethane	ug/L	ND	20	23.6	118	75-125	
Bromodichloromethane	ug/L	ND	20	24.0	120	75-125	
Bromoform	ug/L	ND	20	21.8	109	68-133	
Bromomethane	ug/L	ND	20	25.8	129	56-150	SS
Carbon tetrachloride	ug/L	ND	20	25.3	127	75-137	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Superior MGP
Pace Project No.: 10229180

MATRIX SPIKE SAMPLE: 1437220		10229180008	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chlorobenzene	ug/L	ND	20	22.7	114	75-125	
Chloroethane	ug/L	ND	20	25.6	128	64-150	
Chloroform	ug/L	ND	20	25.3	126	75-127	
Chloromethane	ug/L	ND	20	22.5	112	65-140	
cis-1,2-Dichloroethene	ug/L	ND	20	23.7	119	75-129	
cis-1,3-Dichloropropene	ug/L	ND	20	24.4	122	75-125	
Dibromochloromethane	ug/L	ND	20	22.4	112	75-125	
Dibromomethane	ug/L	ND	20	23.3	117	75-125	
Dichlorodifluoromethane	ug/L	ND	20	25.7	129	70-150	
Dichlorofluoromethane	ug/L	ND	20	26.6	133	69-142	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20.1	100	75-125	
Ethylbenzene	ug/L	1.7	20	23.4	108	75-125	
Hexachloro-1,3-butadiene	ug/L	ND	20	23.4	117	75-135	
Isopropylbenzene (Cumene)	ug/L	ND	20	24.9	123	75-125	
Methyl-tert-butyl ether	ug/L	ND	20	21.8	109	70-132	
Methylene Chloride	ug/L	ND	20	22.1	111	73-125	
n-Butylbenzene	ug/L	ND	20	26.5	133	75-130 M1	
n-Propylbenzene	ug/L	ND	20	27.2	136	75-128 M1	
Naphthalene	ug/L	14.7	20	37.0	112	73-126	
p-Isopropyltoluene	ug/L	1.7	20	25.6	120	75-125	
sec-Butylbenzene	ug/L	ND	20	24.4	122	75-126	
Styrene	ug/L	ND	20	23.0	115	52-137	
tert-Butylbenzene	ug/L	ND	20	25.4	127	75-125 M1	
Tetrachloroethene	ug/L	ND	20	23.1	116	75-130	
Tetrahydrofuran	ug/L	ND	200	205	102	69-125	
Toluene	ug/L	ND	20	23.6	115	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	25.0	125	75-135	
trans-1,3-Dichloropropene	ug/L	ND	20	21.7	109	75-125	
Trichloroethene	ug/L	ND	20	24.4	122	75-129	
Trichlorofluoromethane	ug/L	ND	20	29.0	145	75-150	
Vinyl chloride	ug/L	ND	20	26.7	133	75-147	
Xylene (Total)	ug/L	ND	60	70.7	115	75-125	
1,2-Dichloroethane-d4 (S)	%				107	75-125	
4-Bromofluorobenzene (S)	%				112	75-125	
Toluene-d8 (S)	%				102	75-125	

SAMPLE DUPLICATE: 1437221

Parameter	Units	10229180009	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: Superior MGP

Pace Project No.: 10229180

SAMPLE DUPLICATE: 1437221

Parameter	Units	10229180009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	1.3	1.2	8	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: Superior MGP

Pace Project No.: 10229180

SAMPLE DUPLICATE: 1437221

Parameter	Units	10229180009 Result	Dup Result	RPD	Max RPD	Qualifiers
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	101	110	8		
4-Bromofluorobenzene (S)	%	102	103	.1		
Toluene-d8 (S)	%	99	102	3		

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QUALITY CONTROL DATA

Project: Superior MGP
Pace Project No.: 10229180

QC Batch: MSV/23791 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10229180001, 10229180007, 10229180010, 10229180011

METHOD BLANK: 1439556 Matrix: Water
Associated Lab Samples: 10229180001, 10229180007, 10229180010, 10229180011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/24/13 00:45	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/24/13 00:45	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/24/13 00:45	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/24/13 00:45	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/24/13 00:45	
1,1-Dichloroethane	ug/L	ND	1.0	05/24/13 00:45	
1,1-Dichloroethene	ug/L	ND	1.0	05/24/13 00:45	
1,1-Dichloropropene	ug/L	ND	1.0	05/24/13 00:45	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/24/13 00:45	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/24/13 00:45	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/24/13 00:45	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/24/13 00:45	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/24/13 00:45	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/24/13 00:45	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/24/13 00:45	
1,2-Dichloroethane	ug/L	ND	1.0	05/24/13 00:45	
1,2-Dichloropropane	ug/L	ND	4.0	05/24/13 00:45	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/24/13 00:45	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/24/13 00:45	
1,3-Dichloropropane	ug/L	ND	1.0	05/24/13 00:45	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/24/13 00:45	
2,2-Dichloropropane	ug/L	ND	4.0	05/24/13 00:45	
2-Butanone (MEK)	ug/L	ND	5.0	05/24/13 00:45	
2-Chlorotoluene	ug/L	ND	1.0	05/24/13 00:45	
4-Chlorotoluene	ug/L	ND	1.0	05/24/13 00:45	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/24/13 00:45	
Acetone	ug/L	ND	20.0	05/24/13 00:45	
Allyl chloride	ug/L	ND	4.0	05/24/13 00:45	
Benzene	ug/L	ND	1.0	05/24/13 00:45	
Bromobenzene	ug/L	ND	1.0	05/24/13 00:45	
Bromochloromethane	ug/L	ND	1.0	05/24/13 00:45	
Bromodichloromethane	ug/L	ND	1.0	05/24/13 00:45	
Bromoform	ug/L	ND	4.0	05/24/13 00:45	
Bromomethane	ug/L	ND	4.0	05/24/13 00:45	CL
Carbon tetrachloride	ug/L	ND	1.0	05/24/13 00:45	
Chlorobenzene	ug/L	ND	1.0	05/24/13 00:45	
Chloroethane	ug/L	ND	1.0	05/24/13 00:45	
Chloroform	ug/L	ND	1.0	05/24/13 00:45	
Chloromethane	ug/L	ND	4.0	05/24/13 00:45	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/24/13 00:45	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/24/13 00:45	
Dibromochloromethane	ug/L	ND	1.0	05/24/13 00:45	
Dibromomethane	ug/L	ND	4.0	05/24/13 00:45	

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QUALITY CONTROL DATA

Project: Superior MGP

Project No.: 10229180

METHOD BLANK: 1439556

Matrix: Water

Associated Lab Samples: 10229180001, 10229180007, 10229180010, 10229180011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	05/24/13 00:45	
Dichlorofluoromethane	ug/L	ND	1.0	05/24/13 00:45	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/24/13 00:45	
Ethylbenzene	ug/L	ND	1.0	05/24/13 00:45	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/24/13 00:45	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/24/13 00:45	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/24/13 00:45	
Methylene Chloride	ug/L	ND	4.0	05/24/13 00:45	
n-Butylbenzene	ug/L	ND	1.0	05/24/13 00:45	
n-Propylbenzene	ug/L	ND	1.0	05/24/13 00:45	
Naphthalene	ug/L	ND	4.0	05/24/13 00:45	
p-Isopropyltoluene	ug/L	ND	1.0	05/24/13 00:45	
sec-Butylbenzene	ug/L	ND	1.0	05/24/13 00:45	
Styrene	ug/L	ND	1.0	05/24/13 00:45	
tert-Butylbenzene	ug/L	ND	1.0	05/24/13 00:45	
Tetrachloroethene	ug/L	ND	1.0	05/24/13 00:45	
Tetrahydrofuran	ug/L	ND	10.0	05/24/13 00:45	
Toluene	ug/L	ND	1.0	05/24/13 00:45	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/24/13 00:45	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/24/13 00:45	
Trichloroethene	ug/L	ND	1.0	05/24/13 00:45	
Trichlorofluoromethane	ug/L	ND	1.0	05/24/13 00:45	
Vinyl chloride	ug/L	ND	0.40	05/24/13 00:45	
Xylene (Total)	ug/L	ND	3.0	05/24/13 00:45	
1,2-Dichloroethane-d4 (S)	%	100	75-125	05/24/13 00:45	
4-Bromofluorobenzene (S)	%	102	75-125	05/24/13 00:45	
Toluene-d8 (S)	%	102	75-125	05/24/13 00:45	

LABORATORY CONTROL SAMPLE: 1439557

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.2	96	75-125	
1,1,1-Trichloroethane	ug/L	20	18.0	90	75-126	
1,1,2,2-Tetrachloroethane	ug/L	20	19.9	99	75-125	
1,1,2-Trichloroethane	ug/L	20	20.6	103	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	17.6	88	51-139	
1,1-Dichloroethane	ug/L	20	20.3	101	75-125	
1,1-Dichloroethene	ug/L	20	20.0	100	71-126	
1,1-Dichloropropene	ug/L	20	20.3	102	74-125	
1,2,3-Trichlorobenzene	ug/L	20	19.0	95	75-125	
1,2,3-Trichloropropane	ug/L	20	19.4	97	75-125	
1,2,4-Trichlorobenzene	ug/L	20	18.4	92	75-125	
1,2,4-Trimethylbenzene	ug/L	20	18.1	91	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	41.2	82	73-125	
1,2-Dibromoethane (EDB)	ug/L	20	20.2	101	75-125	

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QUALITY CONTROL DATA

Project: Superior MGP

Pace Project No.: 10229180

LABORATORY CONTROL SAMPLE: 1439557

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	19.4	97	75-125	
1,2-Dichloroethane	ug/L	20	21.1	106	74-125	
1,2-Dichloropropane	ug/L	20	20.6	103	75-125	
1,3,5-Trimethylbenzene	ug/L	20	18.3	92	75-125	
1,3-Dichlorobenzene	ug/L	20	18.8	94	75-125	
1,3-Dichloropropane	ug/L	20	20.6	103	75-125	
1,4-Dichlorobenzene	ug/L	20	18.7	94	75-125	
2,2-Dichloropropane	ug/L	20	15.3	77	67-132	
2-Butanone (MEK)	ug/L	100	97.7	98	68-126	
2-Chlorotoluene	ug/L	20	18.8	94	74-125	
4-Chlorotoluene	ug/L	20	18.8	94	74-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	93.7	94	72-125	
Acetone	ug/L	100	112	112	69-132	
Allyl chloride	ug/L	20	18.0	90	74-125	
Benzene	ug/L	20	20.3	102	75-125	
Bromobenzene	ug/L	20	19.1	95	75-125	
Bromochloromethane	ug/L	20	21.7	109	75-125	
Bromodichloromethane	ug/L	20	19.7	99	75-125	
Bromoform	ug/L	20	17.7	88	75-126	
Bromomethane	ug/L	20	14.6	73	30-150	CL
Carbon tetrachloride	ug/L	20	20.2	101	74-127	
Chlorobenzene	ug/L	20	19.6	98	75-125	
Chloroethane	ug/L	20	22.6	113	68-132	
Chloroform	ug/L	20	21.3	107	75-125	
Chloromethane	ug/L	20	20.5	103	61-129	
cis-1,2-Dichloroethene	ug/L	20	20.8	104	75-125	
cis-1,3-Dichloropropene	ug/L	20	17.1	85	75-125	
Dibromochloromethane	ug/L	20	19.0	95	75-125	
Dibromomethane	ug/L	20	20.5	103	75-125	
Dichlorodifluoromethane	ug/L	20	17.3	87	49-137	
Dichlorofluoromethane	ug/L	20	22.9	115	66-133	
Diethyl ether (Ethyl ether)	ug/L	20	21.0	105	75-125	
Ethylbenzene	ug/L	20	18.3	91	75-125	
Hexachloro-1,3-butadiene	ug/L	20	17.9	90	69-127	
Isopropylbenzene (Cumene)	ug/L	20	19.2	96	75-125	
Methyl-tert-butyl ether	ug/L	20	16.6	83	74-126	
Methylene Chloride	ug/L	20	19.9	99	75-125	
n-Butylbenzene	ug/L	20	18.1	91	72-126	
n-Propylbenzene	ug/L	20	18.6	93	73-125	
Naphthalene	ug/L	20	19.0	95	75-125	
p-Isopropyltoluene	ug/L	20	18.6	93	74-125	
sec-Butylbenzene	ug/L	20	18.7	93	73-125	
Styrene	ug/L	20	19.3	96	75-125	
tert-Butylbenzene	ug/L	20	19.0	95	73-125	
Tetrachloroethene	ug/L	20	18.1	91	75-125	
Tetrahydrofuran	ug/L	200	235	117	71-125	
Toluene	ug/L	20	19.2	96	75-125	
trans-1,2-Dichloroethene	ug/L	20	18.9	95	74-125	

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QUALITY CONTROL DATA

Project: Superior MGP

Pace Project No.: 10229180

LABORATORY CONTROL SAMPLE: 1439557

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	20	17.4	87	75-125	
Trichloroethene	ug/L	20	19.9	100	75-125	
Trichlorofluoromethane	ug/L	20	19.3	97	69-129	
Vinyl chloride	ug/L	20	21.9	109	70-128	
Xylene (Total)	ug/L	60	57.2	95	75-125	
1,2-Dichloroethane-d4 (S)	%			102	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1439829 1439830

Parameter	10229733003		MS	MSD	MS		MSD		% Rec	Max	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
1,1,1,2-Tetrachloroethane	ug/L	<0.50	20	20	19.2	19.3	96	96	75-125	.4	30
1,1,1-Trichloroethane	ug/L	<0.50	20	20	20.3	20.0	101	100	75-136	1	30
1,1,2,2-Tetrachloroethane	ug/L	<0.13	20	20	20.4	20.4	102	102	66-131	.04	30
1,1,2-Trichloroethane	ug/L	<0.16	20	20	20.2	20.1	101	101	75-125	.5	30
1,1,2-Trichlorotrifluoroethane	ug/L	<0.33	20	20	25.6	25.2	128	126	75-150	1	30
1,1-Dichloroethane	ug/L	<0.50	20	20	22.0	21.3	110	107	75-131	3	30
1,1-Dichloroethene	ug/L	<0.24	20	20	23.1	22.6	115	113	75-138	2	30
1,1-Dichloropropene	ug/L	<0.25	20	20	23.1	22.7	116	113	75-136	2	30
1,2,3-Trichlorobenzene	ug/L	<0.50	20	20	17.6	18.0	88	90	75-125	3	30
1,2,3-Trichloropropane	ug/L	<0.54	20	20	19.2	19.4	96	97	71-126	.8	30
1,2,4-Trichlorobenzene	ug/L	<0.50	20	20	17.5	17.5	88	87	75-125	.1	30
1,2,4-Trimethylbenzene	ug/L	<0.50	20	20	18.5	18.3	93	91	70-126	2	30
1,2-Dibromo-3-chloropropane	ug/L	<2.0	50	50	41.7	41.9	83	84	69-127	.4	30
1,2-Dibromoethane (EDB)	ug/L	<0.23	20	20	19.6	19.4	98	97	75-125	.9	30
1,2-Dichlorobenzene	ug/L	<0.092	20	20	19.2	19.0	96	95	75-125	1	30
1,2-Dichloroethane	ug/L	<0.22	20	20	21.1	21.0	106	105	74-128	.7	30
1,2-Dichloropropane	ug/L	<0.20	20	20	21.5	21.2	108	106	75-125	2	30
1,3,5-Trimethylbenzene	ug/L	<0.50	20	20	18.9	18.7	94	93	72-126	1	30
1,3-Dichlorobenzene	ug/L	<0.50	20	20	18.9	18.5	95	92	75-125	2	30
1,3-Dichloropropane	ug/L	<0.50	20	20	20.1	20.0	101	100	75-125	.4	30
1,4-Dichlorobenzene	ug/L	<0.50	20	20	19.0	18.4	95	92	75-125	3	30
2,2-Dichloropropane	ug/L	<0.50	20	20	17.6	17.5	88	87	71-143	.9	30
2-Butanone (MEK)	ug/L	<2.5	100	100	98.2	98.1	98	98	64-125	.1	30
2-Chlorotoluene	ug/L	<0.50	20	20	19.5	19.2	98	96	74-125	1	30
4-Chlorotoluene	ug/L	<0.23	20	20	19.0	19.2	95	96	75-125	.9	30
4-Methyl-2-pentanone (MIBK)	ug/L	<2.5	100	100	92.6	92.2	93	92	69-125	.4	30
Acetone	ug/L	<10.0	100	100	117	118	109	110	57-135	.5	30
Allyl chloride	ug/L	<0.23	20	20	20.1	19.9	101	100	73-134	1	30
Benzene	ug/L	<0.24	20	20	21.9	21.5	109	107	70-135	2	30
Bromobenzene	ug/L	<0.23	20	20	19.6	19.1	98	96	75-125	3	30
Bromochloromethane	ug/L	<0.50	20	20	21.7	21.7	108	109	75-125	.3	30
Bromodichloromethane	ug/L	<0.25	20	20	19.9	19.7	99	99	75-125	.7	30
Bromoform	ug/L	<2.0	20	20	17.2	17.2	86	86	68-133	.4	30
Bromomethane	ug/L	<2.0	20	20	17.4	16.5	87	83	56-150	5	30 CL

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Superior MGP

Pace Project No.: 10229180

Parameter	10229733003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
Carbon tetrachloride	ug/L	<0.31	20	20	22.7	21.8	113	109	75-137	4	30				
Chlorobenzene	ug/L	<0.24	20	20	20.0	19.9	100	99	75-125	.7	30				
Chloroethane	ug/L	<0.50	20	20	25.3	25.3	126	126	64-150	.004	30				
Chloroform	ug/L	<0.27	20	20	22.7	22.0	113	110	75-127	3	30				
Chloromethane	ug/L	<2.0	20	20	22.8	22.0	114	110	65-140	3	30				
cis-1,2-Dichloroethene	ug/L	<0.23	20	20	21.9	21.9	110	109	75-129	.2	30				
cis-1,3-Dichloropropene	ug/L	<0.50	20	20	16.7	16.6	83	83	75-125	.6	30				
Dibromochloromethane	ug/L	<0.27	20	20	19.1	18.8	96	94	75-125	2	30				
Dibromomethane	ug/L	<0.14	20	20	20.4	20.6	102	103	75-125	1	30				
Dichlorodifluoromethane	ug/L	<0.40	20	20	25.4	25.0	127	125	70-150	2	30				
Dichlorofluoromethane	ug/L	<0.20	20	20	25.4	24.9	127	125	69-142	2	30				
Diethyl ether (Ethyl ether)	ug/L	<2.0	20	20	20.4	20.1	102	101	75-125	1	30				
Ethylbenzene	ug/L	<0.24	20	20	19.2	19.0	96	95	75-125	1	30				
Hexachloro-1,3-butadiene	ug/L	<2.5	20	20	16.1	16.6	81	83	75-135	3	30				
Isopropylbenzene (Cumene)	ug/L	<0.50	20	20	20.1	19.9	101	100	75-125	.8	30				
Methyl-tert-butyl ether	ug/L	<0.50	20	20	16.7	17.0	83	85	70-132	2	30				
Methylene Chloride	ug/L	<2.0	20	20	21.2	20.9	106	104	73-125	2	30				
n-Butylbenzene	ug/L	<0.50	20	20	18.7	18.3	94	92	75-130	2	30				
n-Propylbenzene	ug/L	<0.50	20	20	19.7	19.3	98	97	75-128	2	30				
Naphthalene	ug/L	<2.0	20	20	18.0	18.3	90	91	73-126	1	30				
p-Isopropyltoluene	ug/L	<0.50	20	20	19.2	19.0	96	95	75-125	.9	30				
sec-Butylbenzene	ug/L	<0.50	20	20	19.5	19.5	98	98	75-126	.1	30				
Styrene	ug/L	<0.24	20	20	18.9	19.0	94	95	52-137	.4	30				
tert-Butylbenzene	ug/L	<0.50	20	20	20.0	20.0	100	100	75-125	.2	30				
Tetrachloroethene	ug/L	<0.29	20	20	19.4	19.3	97	97	75-130	.2	30				
Tetrahydrofuran	ug/L	<2.9	200	200	233	227	116	114	69-125	2	30				
Toluene	ug/L	<0.23	20	20	20.0	20.0	100	100	75-125	.4	30				
trans-1,2-Dichloroethene	ug/L	<0.24	20	20	21.2	20.9	106	105	75-135	1	30				
trans-1,3-Dichloropropene	ug/L	<2.0	20	20	17.2	17.3	86	86	75-125	.6	30				
Trichloroethene	ug/L	<0.50	20	20	21.2	20.9	106	105	75-129	1	30				
Trichlorofluoromethane	ug/L	<0.13	20	20	24.9	24.6	125	123	75-150	1	30				
Vinyl chloride	ug/L	<0.14	20	20	25.8	25.2	129	126	75-147	3	30				
Xylene (Total)	ug/L	<0.72	60	60	58.5	58.6	97	98	75-125	.2	30				
1,2-Dichloroethane-d4 (S)	%						102	101	75-125						
4-Bromofluorobenzene (S)	%						101	101	75-125						
Toluene-d8 (S)	%						99	99	75-125						

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Superior MGP

Pace Project No.: 10229180

QC Batch: MSV/23814

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 465 W

Associated Lab Samples: 10229180002

METHOD BLANK: 1442247

Matrix: Water

Associated Lab Samples: 10229180002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/28/13 11:30	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/28/13 11:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/28/13 11:30	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/28/13 11:30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/28/13 11:30	
1,1-Dichloroethane	ug/L	ND	1.0	05/28/13 11:30	
1,1-Dichloroethene	ug/L	ND	1.0	05/28/13 11:30	
1,1-Dichloropropene	ug/L	ND	1.0	05/28/13 11:30	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/28/13 11:30	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/28/13 11:30	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/28/13 11:30	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/28/13 11:30	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/28/13 11:30	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/28/13 11:30	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/28/13 11:30	
1,2-Dichloroethane	ug/L	ND	1.0	05/28/13 11:30	
1,2-Dichloropropane	ug/L	ND	4.0	05/28/13 11:30	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/28/13 11:30	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/28/13 11:30	
1,3-Dichloropropane	ug/L	ND	1.0	05/28/13 11:30	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/28/13 11:30	
2,2-Dichloropropane	ug/L	ND	4.0	05/28/13 11:30	
2-Butanone (MEK)	ug/L	ND	5.0	05/28/13 11:30	
2-Chlorotoluene	ug/L	ND	1.0	05/28/13 11:30	
4-Chlorotoluene	ug/L	ND	1.0	05/28/13 11:30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/28/13 11:30	
Acetone	ug/L	ND	20.0	05/28/13 11:30	
Allyl chloride	ug/L	ND	4.0	05/28/13 11:30	
Benzene	ug/L	ND	1.0	05/28/13 11:30	
Bromobenzene	ug/L	ND	1.0	05/28/13 11:30	
Bromochloromethane	ug/L	ND	1.0	05/28/13 11:30	
Bromodichloromethane	ug/L	ND	1.0	05/28/13 11:30	
Bromoform	ug/L	ND	4.0	05/28/13 11:30	
Bromomethane	ug/L	ND	4.0	05/28/13 11:30	
Carbon tetrachloride	ug/L	ND	1.0	05/28/13 11:30	
Chlorobenzene	ug/L	ND	1.0	05/28/13 11:30	
Chloroethane	ug/L	ND	1.0	05/28/13 11:30	
Chloroform	ug/L	ND	1.0	05/28/13 11:30	
Chloromethane	ug/L	ND	4.0	05/28/13 11:30	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/28/13 11:30	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/28/13 11:30	
Dibromochloromethane	ug/L	ND	1.0	05/28/13 11:30	
Dibromomethane	ug/L	ND	4.0	05/28/13 11:30	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Superior MGP

Project No.: 10229180

METHOD BLANK: 1442247

Matrix: Water

Associated Lab Samples: 10229180002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	05/28/13 11:30	
Dichlorofluoromethane	ug/L	ND	1.0	05/28/13 11:30	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/28/13 11:30	
Ethylbenzene	ug/L	ND	1.0	05/28/13 11:30	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/28/13 11:30	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/28/13 11:30	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/28/13 11:30	
Methylene Chloride	ug/L	ND	4.0	05/28/13 11:30	
n-Butylbenzene	ug/L	ND	1.0	05/28/13 11:30	
n-Propylbenzene	ug/L	ND	1.0	05/28/13 11:30	
Naphthalene	ug/L	ND	4.0	05/28/13 11:30	
p-Isopropyltoluene	ug/L	ND	1.0	05/28/13 11:30	
sec-Butylbenzene	ug/L	ND	1.0	05/28/13 11:30	
Styrene	ug/L	ND	1.0	05/28/13 11:30	
tert-Butylbenzene	ug/L	ND	1.0	05/28/13 11:30	
Tetrachloroethene	ug/L	ND	1.0	05/28/13 11:30	
Tetrahydrofuran	ug/L	ND	10.0	05/28/13 11:30	
Toluene	ug/L	ND	1.0	05/28/13 11:30	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/28/13 11:30	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/28/13 11:30	
Trichloroethene	ug/L	ND	1.0	05/28/13 11:30	
Trichlorofluoromethane	ug/L	ND	1.0	05/28/13 11:30	
Vinyl chloride	ug/L	ND	0.40	05/28/13 11:30	
Xylene (Total)	ug/L	ND	3.0	05/28/13 11:30	
1,2-Dichloroethane-d4 (S)	%	79	75-125	05/28/13 11:30	
4-Bromofluorobenzene (S)	%	95	75-125	05/28/13 11:30	
Toluene-d8 (S)	%	90	75-125	05/28/13 11:30	

LABORATORY CONTROL SAMPLE: 1442248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.6	103	75-125	
1,1,1-Trichloroethane	ug/L	20	17.2	86	75-126	
1,1,2,2-Tetrachloroethane	ug/L	20	17.8	89	75-125	
1,1,2-Trichloroethane	ug/L	20	18.4	92	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	17.6	88	51-139	
1,1-Dichloroethane	ug/L	20	17.0	85	75-125	
1,1-Dichloroethene	ug/L	20	16.6	83	71-126	
1,1-Dichloropropene	ug/L	20	15.7	78	74-125	
1,2,3-Trichlorobenzene	ug/L	20	18.5	92	75-125	
1,2,3-Trichloropropane	ug/L	20	16.4	82	75-125	
1,2,4-Trichlorobenzene	ug/L	20	17.7	89	75-125	
1,2,4-Trimethylbenzene	ug/L	20	16.6	83	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	41.4	83	73-125	
1,2-Dibromoethane (EDB)	ug/L	20	18.2	91	75-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Superior MGP

Pace Project No.: 10229180

LABORATORY CONTROL SAMPLE: 1442248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	18.0	90	75-125	
1,2-Dichloroethane	ug/L	20	15.6	78	74-125	
1,2-Dichloropropane	ug/L	20	17.1	86	75-125	
1,3,5-Trimethylbenzene	ug/L	20	16.3	81	75-125	
1,3-Dichlorobenzene	ug/L	20	17.7	88	75-125	
1,3-Dichloropropane	ug/L	20	17.2	86	75-125	
1,4-Dichlorobenzene	ug/L	20	17.3	86	75-125	
2,2-Dichloropropane	ug/L	20	15.7	78	67-132	
2-Butanone (MEK)	ug/L	100	76.1	76	68-126	
2-Chlorotoluene	ug/L	20	16.2	81	74-125	
4-Chlorotoluene	ug/L	20	16.1	80	74-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	78.3	78	72-125	
Acetone	ug/L	100	110	110	69-132	
Allyl chloride	ug/L	20	14.4	72	74-125	LO
Benzene	ug/L	20	16.6	83	75-125	
Bromobenzene	ug/L	20	17.8	89	75-125	
Bromochloromethane	ug/L	20	19.0	95	75-125	
Bromodichloromethane	ug/L	20	21.9	110	75-125	
Bromoform	ug/L	20	20.3	101	75-126	
Bromomethane	ug/L	20	28.1	141	30-150	
Carbon tetrachloride	ug/L	20	18.3	91	74-127	
Chlorobenzene	ug/L	20	17.9	90	75-125	
Chloroethane	ug/L	20	21.8	109	68-132	
Chloroform	ug/L	20	17.4	87	75-125	
Chloromethane	ug/L	20	20.8	104	61-129	
cis-1,2-Dichloroethene	ug/L	20	18.0	90	75-125	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	75-125	
Dibromochloromethane	ug/L	20	21.2	106	75-125	
Dibromomethane	ug/L	20	21.6	108	75-125	
Dichlorodifluoromethane	ug/L	20	23.3	116	49-137	
Dichlorofluoromethane	ug/L	20	19.5	98	66-133	
Diethyl ether (Ethyl ether)	ug/L	20	15.2	76	75-125	
Ethylbenzene	ug/L	20	16.8	84	75-125	
Hexachloro-1,3-butadiene	ug/L	20	18.7	94	69-127	
Isopropylbenzene (Cumene)	ug/L	20	18.1	90	75-125	
Methyl-tert-butyl ether	ug/L	20	15.4	77	74-126	
Methylene Chloride	ug/L	20	16.4	82	75-125	
n-Butylbenzene	ug/L	20	17.4	87	72-126	
n-Propylbenzene	ug/L	20	16.4	82	73-125	
Naphthalene	ug/L	20	17.9	90	75-125	
p-Isopropyltoluene	ug/L	20	17.1	86	74-125	
sec-Butylbenzene	ug/L	20	17.2	86	73-125	
Styrene	ug/L	20	18.4	92	75-125	
tert-Butylbenzene	ug/L	20	17.1	86	73-125	
Tetrachloroethene	ug/L	20	17.8	89	75-125	
Tetrahydrofuran	ug/L	200	220	110	71-125	
Toluene	ug/L	20	17.0	85	75-125	
trans-1,2-Dichloroethene	ug/L	20	17.1	85	74-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Superior MGP

Pace Project No.: 10229180

LABORATORY CONTROL SAMPLE: 1442248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	20	16.2	81	75-125	
Trichloroethene	ug/L	20	19.6	98	75-125	
Trichlorofluoromethane	ug/L	20	21.1	105	69-129	
Vinyl chloride	ug/L	20	21.9	110	70-128	
Xylene (Total)	ug/L	60	53.6	89	75-125	
1,2-Dichloroethane-d4 (S)	%			79	75-125	
4-Bromofluorobenzene (S)	%			92	75-125	
Toluene-d8 (S)	%			91	75-125	

MATRIX SPIKE SAMPLE: 1442251

Parameter	Units	1220293003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.5	102	75-125	
1,1,1-Trichloroethane	ug/L	ND	20	18.8	94	75-136	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	18.2	91	66-131	
1,1,2-Trichloroethane	ug/L	ND	20	18.8	94	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	24.4	122	75-150	
1,1-Dichloroethane	ug/L	ND	20	18.0	90	75-131	
1,1-Dichloroethene	ug/L	ND	20	18.6	93	75-138	
1,1-Dichloropropene	ug/L	ND	20	17.8	89	75-136	
1,2,3-Trichlorobenzene	ug/L	ND	20	18.3	91	75-125	
1,2,3-Trichloropropane	ug/L	ND	20	16.2	81	71-126	
1,2,4-Trichlorobenzene	ug/L	ND	20	18.3	91	75-125	
1,2,4-Trimethylbenzene	ug/L	ND	20	16.5	82	70-126	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	42.6	85	69-127	
1,2-Dibromoethane (EDB)	ug/L	ND	20	18.2	91	75-125	
1,2-Dichlorobenzene	ug/L	ND	20	18.0	90	75-125	
1,2-Dichloroethane	ug/L	ND	20	16.0	80	74-128	
1,2-Dichloropropane	ug/L	ND	20	18.2	91	75-125	
1,3,5-Trimethylbenzene	ug/L	ND	20	16.5	83	72-126	
1,3-Dichlorobenzene	ug/L	ND	20	17.9	89	75-125	
1,3-Dichloropropane	ug/L	ND	20	17.5	87	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	17.3	87	75-125	
2,2-Dichloropropane	ug/L	ND	20	17.1	86	71-143	
2-Butanone (MEK)	ug/L	ND	100	78.4	78	64-125	
2-Chlorotoluene	ug/L	ND	20	16.7	83	74-125	
4-Chlorotoluene	ug/L	ND	20	16.3	82	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	81.0	81	69-125	
Acetone	ug/L	ND	100	117	117	57-135	
Allyl chloride	ug/L	ND	20	15.3	77	73-134	
Benzene	ug/L	ND	20	17.5	87	70-135	
Bromobenzene	ug/L	ND	20	18.2	91	75-125	
Bromochloromethane	ug/L	ND	20	19.6	98	75-125	
Bromodichloromethane	ug/L	ND	20	22.1	110	75-125	
Bromoform	ug/L	ND	20	19.9	100	68-133	
Bromomethane	ug/L	ND	20	31.1	156	56-150 M1	
Carbon tetrachloride	ug/L	ND	20	20.6	103	75-137	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Superior MGP
Pace Project No.: 10229180

MATRIX SPIKE SAMPLE: 1442251		1220293003	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chlorobenzene	ug/L	ND	20	18.3	92	75-125	
Chloroethane	ug/L	ND	20	23.5	118	64-150	
Chloroform	ug/L	ND	20	18.4	92	75-127	
Chloromethane	ug/L	ND	20	22.3	112	65-140	
cis-1,2-Dichloroethene	ug/L	ND	20	19.2	96	75-129	
cis-1,3-Dichloropropene	ug/L	ND	20	19.2	96	75-125	
Dibromochloromethane	ug/L	ND	20	21.6	108	75-125	
Dibromomethane	ug/L	ND	20	22.3	111	75-125	
Dichlorodifluoromethane	ug/L	ND	20	31.9	159	70-150 M1	
Dichlorofluoromethane	ug/L	ND	20	20.7	103	69-142	
Diethyl ether (Ethyl ether)	ug/L	ND	20	15.5	77	75-125	
Ethylbenzene	ug/L	ND	20	17.5	87	75-125	
Hexachloro-1,3-butadiene	ug/L	ND	20	19.9	100	75-135	
Isopropylbenzene (Cumene)	ug/L	ND	20	18.4	92	75-125	
Methyl-tert-butyl ether	ug/L	ND	20	15.7	79	70-132	
Methylene Chloride	ug/L	ND	20	16.3	82	73-125	
n-Butylbenzene	ug/L	ND	20	17.8	89	75-130	
n-Propylbenzene	ug/L	ND	20	17.0	85	75-128	
Naphthalene	ug/L	ND	20	17.9	88	73-126	
p-Isopropyltoluene	ug/L	ND	20	17.5	87	75-125	
sec-Butylbenzene	ug/L	ND	20	17.8	89	75-126	
Styrene	ug/L	ND	20	18.5	93	52-137	
tert-Butylbenzene	ug/L	ND	20	17.6	88	75-125	
Tetrachloroethene	ug/L	ND	20	19.0	95	75-130	
Tetrahydrofuran	ug/L	ND	200	227	114	69-125	
Toluene	ug/L	ND	20	17.8	89	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	17.8	89	75-135	
trans-1,3-Dichloropropene	ug/L	ND	20	16.0	80	75-125	
Trichloroethene	ug/L	ND	20	20.8	104	75-129	
Trichlorofluoromethane	ug/L	ND	20	25.7	128	75-150	
Vinyl chloride	ug/L	ND	20	24.6	123	75-147	
Xylene (Total)	ug/L	ND	60	54.8	91	75-125	
1,2-Dichloroethane-d4 (S)	%				80	75-125	
4-Bromofluorobenzene (S)	%				93	75-125	
Toluene-d8 (S)	%				91	75-125	

SAMPLE DUPLICATE: 1442252

Parameter	Units	1220293004	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Superior MGP

Pace Project No.: 10229180

SAMPLE DUPLICATE: 1442252

Parameter	Units	1220293004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: Superior MGP

Pace Project No.: 10229180

SAMPLE DUPLICATE: 1442252

Parameter	Units	1220293004 Result	Dup Result	RPD	Max RPD	Qualifiers
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	85	84	2		
4-Bromofluorobenzene (S)	%	95	95	.03		
Toluene-d8 (S)	%	91	91	.4		

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QUALITY CONTROL DATA

Project: Superior MGP

Pace Project No.: 10229180

QC Batch: OEXT/21787 Analysis Method: EPA 8270 by SIM
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV
 Associated Lab Samples: 10229180001, 10229180002, 10229180003, 10229180004, 10229180005, 10229180006, 10229180007, 10229180008, 10229180009, 10229180010

METHOD BLANK: 1439773 Matrix: Water

Associated Lab Samples: 10229180001, 10229180002, 10229180003, 10229180004, 10229180005, 10229180006, 10229180007, 10229180008, 10229180009, 10229180010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.040	06/02/13 14:15	
Acenaphthylene	ug/L	ND	0.040	06/02/13 14:15	
Anthracene	ug/L	ND	0.040	06/02/13 14:15	
Benzo(a)anthracene	ug/L	ND	0.040	06/02/13 14:15	
Benzo(a)pyrene	ug/L	ND	0.040	06/02/13 14:15	
Benzo(b)fluoranthene	ug/L	ND	0.040	06/02/13 14:15	
Benzo(g,h,i)perylene	ug/L	ND	0.040	06/02/13 14:15	
Benzo(k)fluoranthene	ug/L	ND	0.040	06/02/13 14:15	
Chrysene	ug/L	ND	0.040	06/02/13 14:15	
Dibenz(a,h)anthracene	ug/L	ND	0.040	06/02/13 14:15	
Fluoranthene	ug/L	ND	0.040	06/02/13 14:15	
Fluorene	ug/L	ND	0.040	06/02/13 14:15	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	06/02/13 14:15	
Naphthalene	ug/L	ND	0.040	06/02/13 14:15	
Phenanthrene	ug/L	ND	0.040	06/02/13 14:15	
Pyrene	ug/L	ND	0.040	06/02/13 14:15	
2-Fluorobiphenyl (S)	%	55	55-125	06/02/13 14:15	
Terphenyl-d14 (S)	%	50	67-125	06/02/13 14:15	S0

LABORATORY CONTROL SAMPLE & LCSD: 1439774 1439775

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acenaphthene	ug/L	1	0.71	0.69	71	69	50-125	3	20	
Acenaphthylene	ug/L	1	0.63	0.61	63	61	47-125	2	20	
Anthracene	ug/L	1	0.75	0.76	75	76	52-125	2	20	
Benzo(a)anthracene	ug/L	1	0.92	0.97	92	97	59-125	5	20	
Benzo(a)pyrene	ug/L	1	0.96	0.94	96	94	57-125	2	20	
Benzo(b)fluoranthene	ug/L	1	0.94	0.95	94	95	47-125	1	20	
Benzo(g,h,i)perylene	ug/L	1	0.89	0.93	89	93	49-125	4	20	
Benzo(k)fluoranthene	ug/L	1	0.97	1.0	97	104	59-125	7	20	
Chrysene	ug/L	1	0.88	0.93	88	93	55-125	6	20	
Dibenz(a,h)anthracene	ug/L	1	0.84	0.90	84	90	45-125	7	20	
Fluoranthene	ug/L	1	0.94	1.0	94	100	53-125	7	20	
Fluorene	ug/L	1	0.75	0.77	75	77	52-125	3	20	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.89	0.93	89	93	51-125	5	20	
Naphthalene	ug/L	1	0.68	0.65	68	65	43-125	5	20	
Phenanthrene	ug/L	1	0.80	0.83	80	83	55-125	4	20	
Pyrene	ug/L	1	0.84	0.82	84	82	56-125	3	20	
2-Fluorobiphenyl (S)	%				65	67	55-125			
Terphenyl-d14 (S)	%				79	79	67-125			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Superior MGP
Pace Project No.: 10229180

QC Batch: WET/30748 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 10229180001, 10229180002, 10229180003, 10229180004, 10229180005, 10229180006, 10229180007, 10229180008, 10229180009, 10229180010

LABORATORY CONTROL SAMPLE: 1447288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	5.0	100	98-102	H6

SAMPLE DUPLICATE: 1447286

Parameter	Units	10229180001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.6	6.7	1	3	H6

SAMPLE DUPLICATE: 1447287

Parameter	Units	10229628005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.9	.5	3	H1,H6

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QUALIFIERS

Project: Superior MGP

Pace Project No.: 10229180

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1M	Low surrogate recoveries due to emulsion present during the extraction process.
2M	Sample re-extracted out of hold to confirm data, data was confirmed except anthracene.
3M	Sample re-extracted out of hold to confirm data, data was confirmed when the 10x dilutions were compared. The straight run of the re-extracted sample has internal standard out low due to matrix.
4M	Sample re-extracted out of hold to confirm data, data was confirmed.
5M	Sample re-extracted out of hold to confirm data, data was not confirmed when the 20x dilutions were compared. The straight run of the re-extracted sample has internal standard out low due to matrix.
6M	Sample re-extracted out of hold to confirm, data was confirmed except for chrysene.
7M	Sample re-extracted out of hold to confirm, data was confirmed.
8M	Sample re-extracted out of hold to confirm, data was not confirmed.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S0	Surrogate recovery outside laboratory control limits.

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QUALIFIERS

Project: Superior MGP

Pace Project No.: 10229180

ANALYTE QUALIFIERS

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Superior MGP

Pace Project No.: 10229180

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10229180001	MW-15	EPA 3510	OEXT/21787	EPA 8270 by SIM	MSSV/9322
10229180002	MW-20	EPA 3510	OEXT/21787	EPA 8270 by SIM	MSSV/9322
10229180003	MW-7	EPA 3510	OEXT/21787	EPA 8270 by SIM	MSSV/9322
10229180004	MW-8	EPA 3510	OEXT/21787	EPA 8270 by SIM	MSSV/9322
10229180005	MW-9	EPA 3510	OEXT/21787	EPA 8270 by SIM	MSSV/9322
10229180006	MW-10	EPA 3510	OEXT/21787	EPA 8270 by SIM	MSSV/9322
10229180007	MW-22	EPA 3510	OEXT/21787	EPA 8270 by SIM	MSSV/9322
10229180008	MW-6	EPA 3510	OEXT/21787	EPA 8270 by SIM	MSSV/9322
10229180009	MW-11	EPA 3510	OEXT/21787	EPA 8270 by SIM	MSSV/9322
10229180010	MW-22D	EPA 3510	OEXT/21787	EPA 8270 by SIM	MSSV/9322
10229180001	MW-15	EPA 8260	MSV/23791		
10229180002	MW-20	EPA 8260	MSV/23814		
10229180003	MW-7	EPA 8260	MSV/23758		
10229180004	MW-8	EPA 8260	MSV/23758		
10229180005	MW-9	EPA 8260	MSV/23758		
10229180006	MW-10	EPA 8260	MSV/23758		
10229180007	MW-22	EPA 8260	MSV/23791		
10229180008	MW-6	EPA 8260	MSV/23758		
10229180009	MW-11	EPA 8260	MSV/23758		
10229180010	MW-22D	EPA 8260	MSV/23791		
10229180011	Trip Blank	EPA 8260	MSV/23791		
10229180001	MW-15	SM 4500-H+B	WET/30748		
10229180002	MW-20	SM 4500-H+B	WET/30748		
10229180003	MW-7	SM 4500-H+B	WET/30748		
10229180004	MW-8	SM 4500-H+B	WET/30748		
10229180005	MW-9	SM 4500-H+B	WET/30748		
10229180006	MW-10	SM 4500-H+B	WET/30748		
10229180007	MW-22	SM 4500-H+B	WET/30748		
10229180008	MW-6	SM 4500-H+B	WET/30748		
10229180009	MW-11	SM 4500-H+B	WET/30748		
10229180010	MW-22D	SM 4500-H+B	WET/30748		

REPORT OF LABORATORY ANALYSIS

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1022980

Section A
Required Client Information:
Company: Summit Environmental Solutions
Address: 1217 Barbara Blvd N
City: St Paul, MN 55108
Phone: 651-202-4234 Fax: _____
Requested Due Date/TAT: _____

Section B
Required Project Information:
Report To: Bill Gregg
Copy To: _____
Purchase Order No.: 2118-0001
Project Name: Superior MGP
Project Number: _____

Section C
Invoice Information:
Attention: Bill Gregg
Company Name: Summit
Address: _____
Pace Quote Reference: _____
Pace Project Manager: Mariah Peranto
Pace Profile #: _____

Page: _____ of _____
1587247

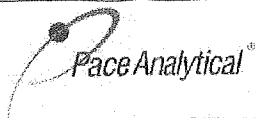
REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER _____
 Site Location STATE: WI

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↑	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME	DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃					
1	MW-15	DW		5/16/13	1305	5/16/13	1305	X											001			
2	MW-20	WT		5/16/13	1245	5/16/13	1245	X											002			
3	MW-7	WW		5/16/13	1935	5/16/13	1935	X											003			
4	MW-8	P		5/16/13	1730	5/16/13	1730	X											004			
5	MW-9	SL		5/16/13	1600	5/16/13	1600	X											005			
6	MW-10	OL		5/16/13	1700	5/16/13	1700	X											006			
7	MW-22	WP		5/16/13	2015	5/16/13	2015	X											007			
8	MW-6	AR		5/17/13	715	5/17/13	715	X											008			
9	MW-11	TS		5/17/13	800	5/17/13	800	X											009			
10	MW-22D	OT		5/16/13	2015	5/16/13	2015	X											010			
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Test for pH as possible	Ryan Anderson	5/17/13	1600	TN/Per	5/17/13	1600	Received on Ice (Y/N) <input checked="" type="checkbox"/> Custody Sealed Cooler (Y/N) <input checked="" type="checkbox"/> Samples Intact (Y/N) <input checked="" type="checkbox"/>
							Temp in °C 0.5
							2.8
							3.0

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Ryan Anderson
 SIGNATURE of SAMPLER: Ryan Anderson
 DATE Signed (MM/DD/YYYY): 5/17/13

ORIGINAL



Document Name:
Sample Condition Upon Receipt Form
 Document No.:
F-MN-L-213-rev.06

Document Revised: 28Jan2013
 Page 1 of 1
 Issuing Authority:
 Pace Minnesota Quality Office

Sample Condition
 Upon Receipt

Client Name: Summit Project #: _____

WO# : 10229180

 10229180

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Tracking Number: _____

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other: _____ Temp Blank? Yes No

Thermom. Used: B88A912167504 80512447 72337080 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temp Read (°C): 0.3 + 2.6 + 2.8 Cooler Temp Corrected (°C): 0.5 + 2.8 = 3.0 Biological Tissue Frozen? Yes No
 Temp should be above freezing to 6°C Correction Factor: 10.2 Date and Initials of Person Examining Contents: 05/17/13

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes Date/Time/ID/Analysis Matrix: <u>WY</u>			
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13. All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl > 2; NaOH > 12) Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.	<input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #	
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>05/17/13</u>	Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.	
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased): <u>042618</u>			

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review:

CRD Date: 5-20-13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

January 07, 2015

Bill Gregg
Summit Envirosolutions
1217 Bandana Blvd
Saint Paul, MN 55108

RE: Project: 2118-0001 Superior MGP
Pace Project No.: 10292044

Dear Bill Gregg:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Justin Benjamin
justin.benjamin@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10292044001	MW-1	Water	12/16/14 12:45	12/17/14 16:00
10292044002	MW-4	Water	12/16/14 15:45	12/17/14 16:00
10292044003	MW-6	Water	12/16/14 12:45	12/17/14 16:00
10292044004	MW-10	Water	12/15/14 11:00	12/17/14 16:00
10292044005	MW-11	Water	12/16/14 10:55	12/17/14 16:00
10292044006	MW-12	Water	12/15/14 13:20	12/17/14 16:00
10292044007	MW-14	Water	12/16/14 14:20	12/17/14 16:00
10292044008	MW-15	Water	12/15/14 12:45	12/17/14 16:00
10292044009	MW-16	Water	12/15/14 14:10	12/17/14 16:00
10292044010	MW-17	Water	12/16/14 09:30	12/17/14 16:00
10292044011	MW-20	Water	12/15/14 12:20	12/17/14 16:00
10292044012	MW-21	Water	12/16/14 10:45	12/17/14 16:00
10292044013	MW-5	Water	12/17/14 08:30	12/17/14 16:00
10292044014	MW-5D	Water	12/17/14 08:30	12/17/14 16:00
10292044015	MW-7	Water	12/17/14 10:00	12/17/14 16:00
10292044016	MW-2	Water	12/17/14 07:45	12/17/14 16:00
10292044017	MW-8	Water	12/17/14 10:15	12/17/14 16:00
10292044018	MW-9	Water	12/17/14 11:15	12/17/14 16:00
10292044019	MW-13	Water	12/17/14 08:45	12/17/14 16:00
10292044020	MW-22	Water	12/17/14 12:25	12/17/14 16:00
10292044021	Trip Blank	Water	12/17/14 12:25	12/17/14 16:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2118-0001 Superior MGP
Pace Project No.: 10292044

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10292044001	MW-1	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	AJC	70	PASI-M
10292044002	MW-4	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	AJC	70	PASI-M
10292044003	MW-6	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	AJC	70	PASI-M
10292044004	MW-10	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	SH2	70	PASI-M
10292044005	MW-11	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	AJC	70	PASI-M
10292044006	MW-12	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	SH2	70	PASI-M
10292044007	MW-14	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	AJC	70	PASI-M
10292044008	MW-15	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	SH2	70	PASI-M
10292044009	MW-16	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	SH2	70	PASI-M
10292044010	MW-17	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	AJC	70	PASI-M
10292044011	MW-20	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	SH2	70	PASI-M
10292044012	MW-21	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	AJC	70	PASI-M
10292044013	MW-5	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	AJC	70	PASI-M
10292044014	MW-5D	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	AJC	70	PASI-M
10292044015	MW-7	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	AJC	70	PASI-M
10292044016	MW-2	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	AJC	70	PASI-M
10292044017	MW-8	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	AJC	70	PASI-M
10292044018	MW-9	EPA 8270 by HVI	JLR	23	PASI-M
		EPA 8260	AJC	70	PASI-M
10292044019	MW-13	EPA 8270 by HVI	JLR	23	PASI-M

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10292044020	MW-22	EPA 8260	AJC	70	PASI-M
		EPA 8270 by HVI	JLR	23	PASI-M
10292044021	Trip Blank	EPA 8260	AJC	70	PASI-M
		EPA 8260	AJC	70	PASI-M

Draft

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-1 **Lab ID: 10292044001** Collected: 12/16/14 12:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	<0.0046	ug/L	0.040	0.0046	1	12/19/14 18:19	12/30/14 19:36	83-32-9	
Acenaphthylene	<0.0021	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 19:36	208-96-8	
Anthracene	<0.0024	ug/L	0.040	0.0024	1	12/19/14 18:19	12/30/14 19:36	120-12-7	
Benzo(a)anthracene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 19:36	56-55-3	
Benzo(a)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 19:36	50-32-8	
Benzo(b)fluoranthene	<0.0022	ug/L	0.040	0.0022	1	12/19/14 18:19	12/30/14 19:36	205-99-2	
Benzo(e)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 19:36	192-97-2	
Benzo(g,h,i)perylene	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 19:36	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 19:36	207-08-9	
2-Chloronaphthalene	<0.0029	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 19:36	91-58-7	
Chrysene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 19:36	218-01-9	
Dibenz(a,h)anthracene	<0.0044	ug/L	0.040	0.0044	1	12/19/14 18:19	12/30/14 19:36	53-70-3	
Dibenzofuran	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 19:36	132-64-9	
Fluoranthene	<0.0031	ug/L	0.040	0.0031	1	12/19/14 18:19	12/30/14 19:36	206-44-0	
Fluorene	<0.0021	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 19:36	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0023	ug/L	0.040	0.0023	1	12/19/14 18:19	12/30/14 19:36	193-39-5	
1-Methylnaphthalene	<0.0045	ug/L	0.040	0.0045	1	12/19/14 18:19	12/30/14 19:36	90-12-0	
2-Methylnaphthalene	<0.0081	ug/L	0.040	0.0081	1	12/19/14 18:19	12/30/14 19:36	91-57-6	
Naphthalene	<0.014	ug/L	0.16	0.014	1	12/19/14 18:19	12/30/14 19:36	91-20-3	
Phenanthrene	<0.0029	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 19:36	85-01-8	
Pyrene	<0.0073	ug/L	0.040	0.0073	1	12/19/14 18:19	12/30/14 19:36	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63 %.		37-125		1	12/19/14 18:19	12/30/14 19:36	321-60-8	
p-Terphenyl-d14 (S)	87 %.		43-125		1	12/19/14 18:19	12/30/14 19:36	1718-51-0	
8260 VOC		Analytical Method: EPA 8260							
Acetone	<10.0	ug/L	20.0	10.0	1		12/30/14 14:42	67-64-1	
Allyl chloride	<0.45	ug/L	4.0	0.45	1		12/30/14 14:42	107-05-1	
Benzene	<0.15	ug/L	1.0	0.15	1		12/30/14 14:42	71-43-2	
Bromobenzene	<0.13	ug/L	1.0	0.13	1		12/30/14 14:42	108-86-1	
Bromochloromethane	<0.12	ug/L	1.0	0.12	1		12/30/14 14:42	74-97-5	
Bromodichloromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 14:42	75-27-4	
Bromoform	<2.0	ug/L	4.0	2.0	1		12/30/14 14:42	75-25-2	
Bromomethane	<2.0	ug/L	10.0	2.0	1		12/30/14 14:42	74-83-9	
2-Butanone (MEK)	<2.5	ug/L	5.0	2.5	1		12/30/14 14:42	78-93-3	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	104-51-8	
sec-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	135-98-8	
tert-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	98-06-6	
Carbon tetrachloride	<0.16	ug/L	1.0	0.16	1		12/30/14 14:42	56-23-5	
Chlorobenzene	<0.066	ug/L	1.0	0.066	1		12/30/14 14:42	108-90-7	
Chloroethane	<0.24	ug/L	1.0	0.24	1		12/30/14 14:42	75-00-3	
Chloroform	<0.16	ug/L	1.0	0.16	1		12/30/14 14:42	67-66-3	
Chloromethane	<0.34	ug/L	4.0	0.34	1		12/30/14 14:42	74-87-3	
2-Chlorotoluene	<0.14	ug/L	1.0	0.14	1		12/30/14 14:42	95-49-8	
4-Chlorotoluene	<0.083	ug/L	1.0	0.083	1		12/30/14 14:42	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0	ug/L	4.0	2.0	1		12/30/14 14:42	96-12-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-1 Lab ID: 10292044001 Collected: 12/16/14 12:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC Analytical Method: EPA 8260									
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	124-48-1	
1,2-Dibromoethane (EDB)	<0.15	ug/L	1.0	0.15	1		12/30/14 14:42	106-93-4	
Dibromomethane	<0.18	ug/L	4.0	0.18	1		12/30/14 14:42	74-95-3	
1,2-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/30/14 14:42	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	4.0	0.50	1		12/30/14 14:42	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		12/30/14 14:42	75-34-3	
1,2-Dichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 14:42	107-06-2	
1,1-Dichloroethene	<0.20	ug/L	1.0	0.20	1		12/30/14 14:42	75-35-4	
cis-1,2-Dichloroethene	<0.13	ug/L	1.0	0.13	1		12/30/14 14:42	156-59-2	
trans-1,2-Dichloroethene	<0.23	ug/L	1.0	0.23	1		12/30/14 14:42	156-60-5	
Dichlorofluoromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 14:42	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	4.0	0.14	1		12/30/14 14:42	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	142-28-9	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/30/14 14:42	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	563-58-6	
cis-1,3-Dichloropropene	<0.13	ug/L	4.0	0.13	1		12/30/14 14:42	10061-01-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/30/14 14:42	10061-02-6	
Diethyl ether (Ethyl ether)	<0.14	ug/L	4.0	0.14	1		12/30/14 14:42	60-29-7	
Ethylbenzene	<0.16	ug/L	1.0	0.16	1		12/30/14 14:42	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	99-87-6	
Methylene Chloride	<2.0	ug/L	4.0	2.0	1		12/30/14 14:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	<2.5	ug/L	5.0	2.5	1		12/30/14 14:42	108-10-1	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/30/14 14:42	1634-04-4	
Naphthalene	<2.0	ug/L	4.0	2.0	1		12/30/14 14:42	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	103-65-1	
Styrene	<0.063	ug/L	1.0	0.063	1		12/30/14 14:42	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	79-34-5	
Tetrachloroethene	<0.16	ug/L	1.0	0.16	1		12/30/14 14:42	127-18-4	
Tetrahydrofuran	<2.0	ug/L	10.0	2.0	1		12/30/14 14:42	109-99-9	L3
Toluene	<0.11	ug/L	1.0	0.11	1		12/30/14 14:42	108-88-3	
1,2,3-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/L	1.0	0.26	1		12/30/14 14:42	71-55-6	
1,1,2-Trichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 14:42	79-00-5	
Trichloroethene	<0.091	ug/L	0.40	0.091	1		12/30/14 14:42	79-01-6	
Trichlorofluoromethane	<0.22	ug/L	1.0	0.22	1		12/30/14 14:42	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	4.0	1.2	1		12/30/14 14:42	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	76-13-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:42	108-67-8	
Vinyl chloride	<0.20	ug/L	0.40	0.20	1		12/30/14 14:42	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-1 **Lab ID: 10292044001** Collected: 12/16/14 12:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Xylene (Total)	<0.40	ug/L	3.0	0.40	1		12/30/14 14:42	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	79 %.		75-125		1		12/30/14 14:42	17060-07-0	
Toluene-d8 (S)	90 %.		75-125		1		12/30/14 14:42	2037-26-5	
4-Bromofluorobenzene (S)	95 %.		75-125		1		12/30/14 14:42	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-4 **Lab ID: 10292044002** Collected: 12/16/14 15:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	<0.0046	ug/L	0.040	0.0046	1	12/19/14 18:19	12/30/14 22:59	83-32-9	
Acenaphthylene	<0.0021	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 22:59	208-96-8	
Anthracene	<0.0024	ug/L	0.040	0.0024	1	12/19/14 18:19	12/30/14 22:59	120-12-7	
Benzo(a)anthracene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 22:59	56-55-3	
Benzo(a)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 22:59	50-32-8	
Benzo(b)fluoranthene	<0.0022	ug/L	0.040	0.0022	1	12/19/14 18:19	12/30/14 22:59	205-99-2	
Benzo(e)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 22:59	192-97-2	
Benzo(g,h,i)perylene	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 22:59	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 22:59	207-08-9	
2-Chloronaphthalene	<0.0029	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 22:59	91-58-7	
Chrysene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 22:59	218-01-9	
Dibenz(a,h)anthracene	<0.0044	ug/L	0.040	0.0044	1	12/19/14 18:19	12/30/14 22:59	53-70-3	
Dibenzofuran	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 22:59	132-64-9	
Fluoranthene	<0.0031	ug/L	0.040	0.0031	1	12/19/14 18:19	12/30/14 22:59	206-44-0	
Fluorene	<0.0021	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 22:59	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0023	ug/L	0.040	0.0023	1	12/19/14 18:19	12/30/14 22:59	193-39-5	
1-Methylnaphthalene	0.073	ug/L	0.040	0.0045	1	12/19/14 18:19	12/30/14 22:59	90-12-0	
2-Methylnaphthalene	0.16	ug/L	0.040	0.0081	1	12/19/14 18:19	12/30/14 22:59	91-57-6	
Naphthalene	7.7	ug/L	1.6	0.14	10	12/19/14 18:19	12/30/14 23:25	91-20-3	
Phenanthrene	<0.0029	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 22:59	85-01-8	
Pyrene	<0.0073	ug/L	0.040	0.0073	1	12/19/14 18:19	12/30/14 22:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69 %.		37-125		1	12/19/14 18:19	12/30/14 22:59	321-60-8	
p-Terphenyl-d14 (S)	77 %.		43-125		1	12/19/14 18:19	12/30/14 22:59	1718-51-0	
8260 VOC		Analytical Method: EPA 8260							
Acetone	<100000	ug/L	200000	100000	10000		12/30/14 12:17	67-64-1	
Allyl chloride	<4460	ug/L	40000	4460	10000		12/30/14 12:17	107-05-1	
Benzene	739000	ug/L	10000	1500	10000		12/30/14 12:17	71-43-2	
Bromobenzene	<1320	ug/L	10000	1320	10000		12/30/14 12:17	108-86-1	
Bromochloromethane	<1150	ug/L	10000	1150	10000		12/30/14 12:17	74-97-5	
Bromodichloromethane	<2020	ug/L	10000	2020	10000		12/30/14 12:17	75-27-4	
Bromoform	<20000	ug/L	40000	20000	10000		12/30/14 12:17	75-25-2	
Bromomethane	<20000	ug/L	100000	20000	10000		12/30/14 12:17	74-83-9	
2-Butanone (MEK)	<25000	ug/L	50000	25000	10000		12/30/14 12:17	78-93-3	
n-Butylbenzene	<5000	ug/L	10000	5000	10000		12/30/14 12:17	104-51-8	
sec-Butylbenzene	<5000	ug/L	10000	5000	10000		12/30/14 12:17	135-98-8	
tert-Butylbenzene	<5000	ug/L	10000	5000	10000		12/30/14 12:17	98-06-6	
Carbon tetrachloride	<1590	ug/L	10000	1590	10000		12/30/14 12:17	56-23-5	
Chlorobenzene	<660	ug/L	10000	660	10000		12/30/14 12:17	108-90-7	
Chloroethane	<2410	ug/L	10000	2410	10000		12/30/14 12:17	75-00-3	
Chloroform	<1610	ug/L	10000	1610	10000		12/30/14 12:17	67-66-3	
Chloromethane	<3410	ug/L	40000	3410	10000		12/30/14 12:17	74-87-3	
2-Chlorotoluene	<1380	ug/L	10000	1380	10000		12/30/14 12:17	95-49-8	
4-Chlorotoluene	<830	ug/L	10000	830	10000		12/30/14 12:17	106-43-4	
1,2-Dibromo-3-chloropropane	<20000	ug/L	40000	20000	10000		12/30/14 12:17	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-4 Lab ID: 10292044002 Collected: 12/16/14 15:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Dibromochloromethane	<5000	ug/L	10000	5000	10000		12/30/14 12:17	124-48-1	
1,2-Dibromoethane (EDB)	<1480	ug/L	10000	1480	10000		12/30/14 12:17	106-93-4	
Dibromomethane	<1850	ug/L	40000	1850	10000		12/30/14 12:17	74-95-3	
1,2-Dichlorobenzene	<1600	ug/L	10000	1600	10000		12/30/14 12:17	95-50-1	
1,3-Dichlorobenzene	<5000	ug/L	10000	5000	10000		12/30/14 12:17	541-73-1	
1,4-Dichlorobenzene	<5000	ug/L	10000	5000	10000		12/30/14 12:17	106-46-7	
Dichlorodifluoromethane	<5000	ug/L	40000	5000	10000		12/30/14 12:17	75-71-8	
1,1-Dichloroethane	<1590	ug/L	10000	1590	10000		12/30/14 12:17	75-34-3	
1,2-Dichloroethane	<1310	ug/L	10000	1310	10000		12/30/14 12:17	107-06-2	
1,1-Dichloroethene	<1990	ug/L	10000	1990	10000		12/30/14 12:17	75-35-4	
cis-1,2-Dichloroethene	<1330	ug/L	10000	1330	10000		12/30/14 12:17	156-59-2	
trans-1,2-Dichloroethene	<2310	ug/L	10000	2310	10000		12/30/14 12:17	156-60-5	
Dichlorofluoromethane	<2020	ug/L	10000	2020	10000		12/30/14 12:17	75-43-4	
1,2-Dichloropropane	<1420	ug/L	40000	1420	10000		12/30/14 12:17	78-87-5	
1,3-Dichloropropane	<5000	ug/L	10000	5000	10000		12/30/14 12:17	142-28-9	
2,2-Dichloropropane	<1740	ug/L	40000	1740	10000		12/30/14 12:17	594-20-7	
1,1-Dichloropropene	<5000	ug/L	10000	5000	10000		12/30/14 12:17	563-58-6	
cis-1,3-Dichloropropene	<1270	ug/L	40000	1270	10000		12/30/14 12:17	10061-01-5	
trans-1,3-Dichloropropene	<1850	ug/L	40000	1850	10000		12/30/14 12:17	10061-02-6	
Diethyl ether (Ethyl ether)	<1410	ug/L	40000	1410	10000		12/30/14 12:17	60-29-7	
Ethylbenzene	<1650	ug/L	10000	1650	10000		12/30/14 12:17	100-41-4	
Hexachloro-1,3-butadiene	<5000	ug/L	10000	5000	10000		12/30/14 12:17	87-68-3	
Isopropylbenzene (Cumene)	<5000	ug/L	10000	5000	10000		12/30/14 12:17	98-82-8	
p-Isopropyltoluene	<5000	ug/L	10000	5000	10000		12/30/14 12:17	99-87-6	
Methylene Chloride	<20000	ug/L	40000	20000	10000		12/30/14 12:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	<25000	ug/L	50000	25000	10000		12/30/14 12:17	108-10-1	
Methyl-tert-butyl ether	<1690	ug/L	10000	1690	10000		12/30/14 12:17	1634-04-4	
Naphthalene	<20000	ug/L	40000	20000	10000		12/30/14 12:17	91-20-3	
n-Propylbenzene	<5000	ug/L	10000	5000	10000		12/30/14 12:17	103-65-1	
Styrene	<630	ug/L	10000	630	10000		12/30/14 12:17	100-42-5	
1,1,1,2-Tetrachloroethane	<5000	ug/L	10000	5000	10000		12/30/14 12:17	630-20-6	
1,1,2,2-Tetrachloroethane	<5000	ug/L	10000	5000	10000		12/30/14 12:17	79-34-5	
Tetrachloroethene	<1570	ug/L	10000	1570	10000		12/30/14 12:17	127-18-4	
Tetrahydrofuran	<19900	ug/L	100000	19900	10000		12/30/14 12:17	109-99-9	L3
Toluene	66000	ug/L	10000	1100	10000		12/30/14 12:17	108-88-3	
1,2,3-Trichlorobenzene	<5000	ug/L	10000	5000	10000		12/30/14 12:17	87-61-6	
1,2,4-Trichlorobenzene	<5000	ug/L	10000	5000	10000		12/30/14 12:17	120-82-1	
1,1,1-Trichloroethane	<2640	ug/L	10000	2640	10000		12/30/14 12:17	71-55-6	
1,1,2-Trichloroethane	<1270	ug/L	10000	1270	10000		12/30/14 12:17	79-00-5	
Trichloroethene	<910	ug/L	4000	910	10000		12/30/14 12:17	79-01-6	
Trichlorofluoromethane	<2160	ug/L	10000	2160	10000		12/30/14 12:17	75-69-4	
1,2,3-Trichloropropane	<12200	ug/L	40000	12200	10000		12/30/14 12:17	96-18-4	
1,1,2-Trichlorotrifluoroethane	<5000	ug/L	10000	5000	10000		12/30/14 12:17	76-13-1	
1,2,4-Trimethylbenzene	<5000	ug/L	10000	5000	10000		12/30/14 12:17	95-63-6	
1,3,5-Trimethylbenzene	<5000	ug/L	10000	5000	10000		12/30/14 12:17	108-67-8	
Vinyl chloride	<1950	ug/L	4000	1950	10000		12/30/14 12:17	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-4 **Lab ID: 10292044002** Collected: 12/16/14 15:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Xylene (Total)	<4040	ug/L	30000	4040	10000		12/30/14 12:17	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	83 %.		75-125		10000		12/30/14 12:17	17060-07-0	
Toluene-d8 (S)	92 %.		75-125		10000		12/30/14 12:17	2037-26-5	
4-Bromofluorobenzene (S)	93 %.		75-125		10000		12/30/14 12:17	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-6 **Lab ID: 10292044003** Collected: 12/16/14 12:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	2.7	ug/L	0.040	0.0046	1	12/19/14 18:19	12/30/14 20:02	83-32-9	
Acenaphthylene	0.10	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 20:02	208-96-8	
Anthracene	0.22	ug/L	0.040	0.0024	1	12/19/14 18:19	12/30/14 20:02	120-12-7	
Benzo(a)anthracene	0.035J	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 20:02	56-55-3	
Benzo(a)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 20:02	50-32-8	
Benzo(b)fluoranthene	<0.0022	ug/L	0.040	0.0022	1	12/19/14 18:19	12/30/14 20:02	205-99-2	
Benzo(e)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 20:02	192-97-2	
Benzo(g,h,i)perylene	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 20:02	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 20:02	207-08-9	
2-Chloronaphthalene	<0.0029	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 20:02	91-58-7	
Chrysene	0.039J	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 20:02	218-01-9	
Dibenz(a,h)anthracene	<0.0044	ug/L	0.040	0.0044	1	12/19/14 18:19	12/30/14 20:02	53-70-3	
Dibenzofuran	0.029J	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 20:02	132-64-9	
Fluoranthene	0.47	ug/L	0.040	0.0031	1	12/19/14 18:19	12/30/14 20:02	206-44-0	
Fluorene	0.39	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 20:02	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0023	ug/L	0.040	0.0023	1	12/19/14 18:19	12/30/14 20:02	193-39-5	
1-Methylnaphthalene	1.6	ug/L	0.040	0.0045	1	12/19/14 18:19	12/30/14 20:02	90-12-0	
2-Methylnaphthalene	0.79	ug/L	0.040	0.0081	1	12/19/14 18:19	12/30/14 20:02	91-57-6	
Naphthalene	4.4	ug/L	0.16	0.014	1	12/19/14 18:19	12/30/14 20:02	91-20-3	
Phenanthrene	1.4	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 20:02	85-01-8	
Pyrene	0.55	ug/L	0.040	0.0073	1	12/19/14 18:19	12/30/14 20:02	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63 %.		37-125		1	12/19/14 18:19	12/30/14 20:02	321-60-8	
p-Terphenyl-d14 (S)	76 %.		43-125		1	12/19/14 18:19	12/30/14 20:02	1718-51-0	
8260 VOC		Analytical Method: EPA 8260							
Acetone	27.2	ug/L	20.0	10.0	1		12/30/14 14:56	67-64-1	C0,IS
Allyl chloride	<0.45	ug/L	4.0	0.45	1		12/30/14 14:56	107-05-1	
Benzene	1.5	ug/L	1.0	0.15	1		12/30/14 14:56	71-43-2	
Bromobenzene	<0.13	ug/L	1.0	0.13	1		12/30/14 14:56	108-86-1	
Bromochloromethane	<0.12	ug/L	1.0	0.12	1		12/30/14 14:56	74-97-5	
Bromodichloromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 14:56	75-27-4	
Bromoform	<2.0	ug/L	4.0	2.0	1		12/30/14 14:56	75-25-2	
Bromomethane	<2.0	ug/L	10.0	2.0	1		12/30/14 14:56	74-83-9	
2-Butanone (MEK)	<2.5	ug/L	5.0	2.5	1		12/30/14 14:56	78-93-3	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:56	104-51-8	
sec-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:56	135-98-8	
tert-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:56	98-06-6	
Carbon tetrachloride	<0.16	ug/L	1.0	0.16	1		12/30/14 14:56	56-23-5	
Chlorobenzene	<0.066	ug/L	1.0	0.066	1		12/30/14 14:56	108-90-7	
Chloroethane	<0.24	ug/L	1.0	0.24	1		12/30/14 14:56	75-00-3	
Chloroform	<0.16	ug/L	1.0	0.16	1		12/30/14 14:56	67-66-3	
Chloromethane	<0.34	ug/L	4.0	0.34	1		12/30/14 14:56	74-87-3	
2-Chlorotoluene	<0.14	ug/L	1.0	0.14	1		12/30/14 14:56	95-49-8	
4-Chlorotoluene	<0.083	ug/L	1.0	0.083	1		12/30/14 14:56	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0	ug/L	4.0	2.0	1		12/30/14 14:56	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-6 Lab ID: 10292044003 Collected: 12/16/14 12:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC Analytical Method: EPA 8260									
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/30/14 14:56	124-48-1	
1,2-Dibromoethane (EDB)	<0.15	ug/L	1.0	0.15	1		12/30/14 14:56	106-93-4	
Dibromomethane	<0.18	ug/L	4.0	0.18	1		12/30/14 14:56	74-95-3	
1,2-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/30/14 14:56	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:56	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:56	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	4.0	0.50	1		12/30/14 14:56	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		12/30/14 14:56	75-34-3	
1,2-Dichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 14:56	107-06-2	
1,1-Dichloroethene	<0.20	ug/L	1.0	0.20	1		12/30/14 14:56	75-35-4	
cis-1,2-Dichloroethene	<0.13	ug/L	1.0	0.13	1		12/30/14 14:56	156-59-2	
trans-1,2-Dichloroethene	<0.23	ug/L	1.0	0.23	1		12/30/14 14:56	156-60-5	
Dichlorofluoromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 14:56	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	4.0	0.14	1		12/30/14 14:56	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/30/14 14:56	142-28-9	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/30/14 14:56	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:56	563-58-6	
cis-1,3-Dichloropropene	<0.13	ug/L	4.0	0.13	1		12/30/14 14:56	10061-01-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/30/14 14:56	10061-02-6	
Diethyl ether (Ethyl ether)	<0.14	ug/L	4.0	0.14	1		12/30/14 14:56	60-29-7	
Ethylbenzene	0.84J	ug/L	1.0	0.16	1		12/30/14 14:56	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:56	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	1.0	0.50	1		12/30/14 14:56	98-82-8	
p-Isopropyltoluene	1.6	ug/L	1.0	0.50	1		12/30/14 14:56	99-87-6	
Methylene Chloride	<2.0	ug/L	4.0	2.0	1		12/30/14 14:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	<2.5	ug/L	5.0	2.5	1		12/30/14 14:56	108-10-1	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/30/14 14:56	1634-04-4	
Naphthalene	6.8	ug/L	4.0	2.0	1		12/30/14 14:56	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:56	103-65-1	
Styrene	<0.063	ug/L	1.0	0.063	1		12/30/14 14:56	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 14:56	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 14:56	79-34-5	
Tetrachloroethene	<0.16	ug/L	1.0	0.16	1		12/30/14 14:56	127-18-4	
Tetrahydrofuran	<2.0	ug/L	10.0	2.0	1		12/30/14 14:56	109-99-9	L3
Toluene	0.55J	ug/L	1.0	0.11	1		12/30/14 14:56	108-88-3	
1,2,3-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:56	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 14:56	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/L	1.0	0.26	1		12/30/14 14:56	71-55-6	
1,1,2-Trichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 14:56	79-00-5	
Trichloroethene	<0.091	ug/L	0.40	0.091	1		12/30/14 14:56	79-01-6	
Trichlorofluoromethane	<0.22	ug/L	1.0	0.22	1		12/30/14 14:56	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	4.0	1.2	1		12/30/14 14:56	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 14:56	76-13-1	
1,2,4-Trimethylbenzene	0.87J	ug/L	1.0	0.50	1		12/30/14 14:56	95-63-6	
1,3,5-Trimethylbenzene	0.58J	ug/L	1.0	0.50	1		12/30/14 14:56	108-67-8	
Vinyl chloride	<0.20	ug/L	0.40	0.20	1		12/30/14 14:56	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-6 **Lab ID: 10292044003** Collected: 12/16/14 12:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC									
Analytical Method: EPA 8260									
Xylene (Total)	<0.40	ug/L	3.0	0.40	1		12/30/14 14:56	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	81 %.		75-125		1		12/30/14 14:56	17060-07-0	
Toluene-d8 (S)	91 %.		75-125		1		12/30/14 14:56	2037-26-5	
4-Bromofluorobenzene (S)	91 %.		75-125		1		12/30/14 14:56	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-10 Lab ID: 10292044004 Collected: 12/15/14 11:00 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	30.6	ug/L	0.80	0.092	20	12/19/14 18:19	12/31/14 02:14	83-32-9	
Acenaphthylene	0.44	ug/L	0.040	0.0021	1	12/19/14 18:19	12/31/14 01:48	208-96-8	
Anthracene	1.0	ug/L	0.040	0.0024	1	12/19/14 18:19	12/31/14 01:48	120-12-7	
Benzo(a)anthracene	0.22	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 01:48	56-55-3	
Benzo(a)pyrene	0.25	ug/L	0.040	0.0030	1	12/19/14 18:19	12/31/14 01:48	50-32-8	
Benzo(b)fluoranthene	0.18	ug/L	0.040	0.0022	1	12/19/14 18:19	12/31/14 01:48	205-99-2	
Benzo(e)pyrene	0.15	ug/L	0.040	0.0030	1	12/19/14 18:19	12/31/14 01:48	192-97-2	
Benzo(g,h,i)perylene	0.15	ug/L	0.040	0.0025	1	12/19/14 18:19	12/31/14 01:48	191-24-2	
Benzo(k)fluoranthene	0.073	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 01:48	207-08-9	
2-Chloronaphthalene	0.048	ug/L	0.040	0.0029	1	12/19/14 18:19	12/31/14 01:48	91-58-7	
Chrysene	0.23	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 01:48	218-01-9	
Dibenz(a,h)anthracene	0.029J	ug/L	0.040	0.0044	1	12/19/14 18:19	12/31/14 01:48	53-70-3	
Dibenzofuran	0.20	ug/L	0.040	0.0025	1	12/19/14 18:19	12/31/14 01:48	132-64-9	
Fluoranthene	0.77	ug/L	0.040	0.0031	1	12/19/14 18:19	12/31/14 01:48	206-44-0	
Fluorene	4.4	ug/L	0.040	0.0021	1	12/19/14 18:19	12/31/14 01:48	86-73-7	
Indeno(1,2,3-cd)pyrene	0.099	ug/L	0.040	0.0023	1	12/19/14 18:19	12/31/14 01:48	193-39-5	
1-Methylnaphthalene	36.9	ug/L	0.80	0.090	20	12/19/14 18:19	12/31/14 02:14	90-12-0	
2-Methylnaphthalene	2.7	ug/L	0.040	0.0081	1	12/19/14 18:19	12/31/14 01:48	91-57-6	
Naphthalene	14.7	ug/L	3.2	0.28	20	12/19/14 18:19	12/31/14 02:14	91-20-3	
Phenanthrene	4.3	ug/L	0.040	0.0029	1	12/19/14 18:19	12/31/14 01:48	85-01-8	
Pyrene	1.1	ug/L	0.040	0.0073	1	12/19/14 18:19	12/31/14 01:48	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59 %.		37-125		1	12/19/14 18:19	12/31/14 01:48	321-60-8	
p-Terphenyl-d14 (S)	71 %.		43-125		1	12/19/14 18:19	12/31/14 01:48	1718-51-0	
8260 VOC									
Analytical Method: EPA 8260									
Acetone	<200	ug/L	400	200	20		12/24/14 19:47	67-64-1	
Allyl chloride	<8.9	ug/L	80.0	8.9	20		12/24/14 19:47	107-05-1	
Benzene	6300	ug/L	50.0	7.5	50		12/26/14 17:03	71-43-2	
Bromobenzene	<2.6	ug/L	20.0	2.6	20		12/24/14 19:47	108-86-1	
Bromochloromethane	<2.3	ug/L	20.0	2.3	20		12/24/14 19:47	74-97-5	L2
Bromodichloromethane	<4.0	ug/L	20.0	4.0	20		12/24/14 19:47	75-27-4	
Bromoform	<40.0	ug/L	80.0	40.0	20		12/24/14 19:47	75-25-2	
Bromomethane	<40.0	ug/L	80.0	40.0	20		12/24/14 19:47	74-83-9	
2-Butanone (MEK)	<50.0	ug/L	100	50.0	20		12/24/14 19:47	78-93-3	
n-Butylbenzene	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	104-51-8	
sec-Butylbenzene	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	135-98-8	
tert-Butylbenzene	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	98-06-6	
Carbon tetrachloride	<3.2	ug/L	20.0	3.2	20		12/24/14 19:47	56-23-5	
Chlorobenzene	<1.3	ug/L	20.0	1.3	20		12/24/14 19:47	108-90-7	
Chloroethane	<5.4	ug/L	20.0	5.4	20		12/24/14 19:47	75-00-3	L3
Chloroform	<3.2	ug/L	20.0	3.2	20		12/24/14 19:47	67-66-3	
Chloromethane	<6.8	ug/L	80.0	6.8	20		12/24/14 19:47	74-87-3	
2-Chlorotoluene	<2.8	ug/L	20.0	2.8	20		12/24/14 19:47	95-49-8	
4-Chlorotoluene	<1.7	ug/L	20.0	1.7	20		12/24/14 19:47	106-43-4	
1,2-Dibromo-3-chloropropane	<40.0	ug/L	80.0	40.0	20		12/24/14 19:47	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-10 **Lab ID: 10292044004** Collected: 12/15/14 11:00 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC Analytical Method: EPA 8260									
Dibromochloromethane	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	124-48-1	
1,2-Dibromoethane (EDB)	<3.0	ug/L	20.0	3.0	20		12/24/14 19:47	106-93-4	
Dibromomethane	<3.7	ug/L	80.0	3.7	20		12/24/14 19:47	74-95-3	
1,2-Dichlorobenzene	<3.2	ug/L	20.0	3.2	20		12/24/14 19:47	95-50-1	
1,3-Dichlorobenzene	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	541-73-1	
1,4-Dichlorobenzene	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	106-46-7	
Dichlorodifluoromethane	<10.0	ug/L	80.0	10.0	20		12/24/14 19:47	75-71-8	
1,1-Dichloroethane	<3.2	ug/L	20.0	3.2	20		12/24/14 19:47	75-34-3	
1,2-Dichloroethane	<2.6	ug/L	20.0	2.6	20		12/24/14 19:47	107-06-2	
1,1-Dichloroethene	<4.0	ug/L	20.0	4.0	20		12/24/14 19:47	75-35-4	
cis-1,2-Dichloroethene	<2.7	ug/L	20.0	2.7	20		12/24/14 19:47	156-59-2	
trans-1,2-Dichloroethene	<4.6	ug/L	20.0	4.6	20		12/24/14 19:47	156-60-5	
Dichlorofluoromethane	<4.0	ug/L	20.0	4.0	20		12/24/14 19:47	75-43-4	
1,2-Dichloropropane	<2.8	ug/L	80.0	2.8	20		12/24/14 19:47	78-87-5	
1,3-Dichloropropane	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	142-28-9	
2,2-Dichloropropane	<3.5	ug/L	80.0	3.5	20		12/24/14 19:47	594-20-7	
1,1-Dichloropropene	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	563-58-6	
cis-1,3-Dichloropropene	<2.5	ug/L	80.0	2.5	20		12/24/14 19:47	10061-01-5	
trans-1,3-Dichloropropene	<3.7	ug/L	80.0	3.7	20		12/24/14 19:47	10061-02-6	
Diethyl ether (Ethyl ether)	<2.8	ug/L	80.0	2.8	20		12/24/14 19:47	60-29-7	
Ethylbenzene	50.0	ug/L	20.0	3.3	20		12/24/14 19:47	100-41-4	
Hexachloro-1,3-butadiene	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	87-68-3	
Isopropylbenzene (Cumene)	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	98-82-8	
p-Isopropyltoluene	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	99-87-6	
Methylene Chloride	<40.0	ug/L	80.0	40.0	20		12/24/14 19:47	75-09-2	L2
4-Methyl-2-pentanone (MIBK)	<50.0	ug/L	100	50.0	20		12/24/14 19:47	108-10-1	
Methyl-tert-butyl ether	<3.4	ug/L	20.0	3.4	20		12/24/14 19:47	1634-04-4	
Naphthalene	<40.0	ug/L	80.0	40.0	20		12/24/14 19:47	91-20-3	L2
n-Propylbenzene	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	103-65-1	
Styrene	<1.4	ug/L	20.0	1.4	20		12/24/14 19:47	100-42-5	
1,1,1,2-Tetrachloroethane	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	630-20-6	
1,1,2,2-Tetrachloroethane	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	79-34-5	
Tetrachloroethene	12.6J	ug/L	20.0	3.1	20		12/24/14 19:47	127-18-4	B
Tetrahydrofuran	<39.8	ug/L	200	39.8	20		12/24/14 19:47	109-99-9	
Toluene	247	ug/L	20.0	2.2	20		12/24/14 19:47	108-88-3	
1,2,3-Trichlorobenzene	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	87-61-6	
1,2,4-Trichlorobenzene	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	120-82-1	
1,1,1-Trichloroethane	<5.3	ug/L	20.0	5.3	20		12/24/14 19:47	71-55-6	
1,1,2-Trichloroethane	<2.7	ug/L	20.0	2.7	20		12/24/14 19:47	79-00-5	
Trichloroethene	<1.8	ug/L	8.0	1.8	20		12/24/14 19:47	79-01-6	
Trichlorofluoromethane	<4.3	ug/L	20.0	4.3	20		12/24/14 19:47	75-69-4	
1,2,3-Trichloropropane	<24.4	ug/L	80.0	24.4	20		12/24/14 19:47	96-18-4	L2
1,1,2-Trichlorotrifluoroethane	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	76-13-1	
1,2,4-Trimethylbenzene	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	95-63-6	
1,3,5-Trimethylbenzene	<10.0	ug/L	20.0	10.0	20		12/24/14 19:47	108-67-8	
Vinyl chloride	<2.0	ug/L	8.0	2.0	20		12/24/14 19:47	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-10 **Lab ID: 10292044004** Collected: 12/15/14 11:00 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC									
Analytical Method: EPA 8260									
Xylene (Total)	24.3J	ug/L	60.0	8.1	20		12/24/14 19:47	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103 %.		75-125		20		12/24/14 19:47	17060-07-0	P2
Toluene-d8 (S)	102 %.		75-125		20		12/24/14 19:47	2037-26-5	
4-Bromofluorobenzene (S)	102 %.		75-125		20		12/24/14 19:47	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-11 **Lab ID: 10292044005** Collected: 12/16/14 10:55 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI									
Analytical Method: EPA 8270 by HVI					Preparation Method: EPA 3510				
Acenaphthene	9.4	ug/L	0.40	0.046	10	12/19/14 18:19	12/31/14 03:04	83-32-9	
Acenaphthylene	0.066	ug/L	0.040	0.0021	1	12/19/14 18:19	12/31/14 02:39	208-96-8	
Anthracene	0.10	ug/L	0.040	0.0024	1	12/19/14 18:19	12/31/14 02:39	120-12-7	
Benzo(a)anthracene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 02:39	56-55-3	
Benzo(a)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/31/14 02:39	50-32-8	
Benzo(b)fluoranthene	<0.0022	ug/L	0.040	0.0022	1	12/19/14 18:19	12/31/14 02:39	205-99-2	
Benzo(e)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/31/14 02:39	192-97-2	
Benzo(g,h,i)perylene	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/31/14 02:39	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 02:39	207-08-9	
2-Chloronaphthalene	<0.0029	ug/L	0.040	0.0029	1	12/19/14 18:19	12/31/14 02:39	91-58-7	
Chrysene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 02:39	218-01-9	
Dibenz(a,h)anthracene	<0.0044	ug/L	0.040	0.0044	1	12/19/14 18:19	12/31/14 02:39	53-70-3	
Dibenzofuran	0.032J	ug/L	0.040	0.0025	1	12/19/14 18:19	12/31/14 02:39	132-64-9	
Fluoranthene	0.029J	ug/L	0.040	0.0031	1	12/19/14 18:19	12/31/14 02:39	206-44-0	
Fluorene	2.0	ug/L	0.040	0.0021	1	12/19/14 18:19	12/31/14 02:39	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0023	ug/L	0.040	0.0023	1	12/19/14 18:19	12/31/14 02:39	193-39-5	
1-Methylnaphthalene	6.6	ug/L	0.40	0.045	10	12/19/14 18:19	12/31/14 03:04	90-12-0	
2-Methylnaphthalene	0.87	ug/L	0.040	0.0081	1	12/19/14 18:19	12/31/14 02:39	91-57-6	
Naphthalene	2.3	ug/L	0.16	0.014	1	12/19/14 18:19	12/31/14 02:39	91-20-3	
Phenanthrene	1.2	ug/L	0.040	0.0029	1	12/19/14 18:19	12/31/14 02:39	85-01-8	
Pyrene	0.036J	ug/L	0.040	0.0073	1	12/19/14 18:19	12/31/14 02:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63 %.		37-125		1	12/19/14 18:19	12/31/14 02:39	321-60-8	
p-Terphenyl-d14 (S)	81 %.		43-125		1	12/19/14 18:19	12/31/14 02:39	1718-51-0	
8260 VOC									
Analytical Method: EPA 8260									
Acetone	<10.0	ug/L	20.0	10.0	1		12/30/14 15:10	67-64-1	
Allyl chloride	<0.45	ug/L	4.0	0.45	1		12/30/14 15:10	107-05-1	
Benzene	0.22J	ug/L	1.0	0.15	1		12/30/14 15:10	71-43-2	
Bromobenzene	<0.13	ug/L	1.0	0.13	1		12/30/14 15:10	108-86-1	
Bromochloromethane	<0.12	ug/L	1.0	0.12	1		12/30/14 15:10	74-97-5	
Bromodichloromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 15:10	75-27-4	
Bromoform	<2.0	ug/L	4.0	2.0	1		12/30/14 15:10	75-25-2	
Bromomethane	<2.0	ug/L	10.0	2.0	1		12/30/14 15:10	74-83-9	
2-Butanone (MEK)	<2.5	ug/L	5.0	2.5	1		12/30/14 15:10	78-93-3	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	104-51-8	
sec-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	135-98-8	
tert-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	98-06-6	
Carbon tetrachloride	<0.16	ug/L	1.0	0.16	1		12/30/14 15:10	56-23-5	
Chlorobenzene	<0.066	ug/L	1.0	0.066	1		12/30/14 15:10	108-90-7	
Chloroethane	<0.24	ug/L	1.0	0.24	1		12/30/14 15:10	75-00-3	
Chloroform	<0.16	ug/L	1.0	0.16	1		12/30/14 15:10	67-66-3	
Chloromethane	<0.34	ug/L	4.0	0.34	1		12/30/14 15:10	74-87-3	
2-Chlorotoluene	<0.14	ug/L	1.0	0.14	1		12/30/14 15:10	95-49-8	
4-Chlorotoluene	<0.083	ug/L	1.0	0.083	1		12/30/14 15:10	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0	ug/L	4.0	2.0	1		12/30/14 15:10	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-11 Lab ID: 10292044005 Collected: 12/16/14 10:55 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	124-48-1	
1,2-Dibromoethane (EDB)	<0.15	ug/L	1.0	0.15	1		12/30/14 15:10	106-93-4	
Dibromomethane	<0.18	ug/L	4.0	0.18	1		12/30/14 15:10	74-95-3	
1,2-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/30/14 15:10	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	4.0	0.50	1		12/30/14 15:10	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		12/30/14 15:10	75-34-3	
1,2-Dichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 15:10	107-06-2	
1,1-Dichloroethene	<0.20	ug/L	1.0	0.20	1		12/30/14 15:10	75-35-4	
cis-1,2-Dichloroethene	<0.13	ug/L	1.0	0.13	1		12/30/14 15:10	156-59-2	
trans-1,2-Dichloroethene	<0.23	ug/L	1.0	0.23	1		12/30/14 15:10	156-60-5	
Dichlorofluoromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 15:10	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	4.0	0.14	1		12/30/14 15:10	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	142-28-9	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/30/14 15:10	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	563-58-6	
cis-1,3-Dichloropropene	<0.13	ug/L	4.0	0.13	1		12/30/14 15:10	10061-01-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/30/14 15:10	10061-02-6	
Diethyl ether (Ethyl ether)	<0.14	ug/L	4.0	0.14	1		12/30/14 15:10	60-29-7	
Ethylbenzene	<0.16	ug/L	1.0	0.16	1		12/30/14 15:10	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	99-87-6	
Methylene Chloride	<2.0	ug/L	4.0	2.0	1		12/30/14 15:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	<2.5	ug/L	5.0	2.5	1		12/30/14 15:10	108-10-1	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/30/14 15:10	1634-04-4	
Naphthalene	3.7J	ug/L	4.0	2.0	1		12/30/14 15:10	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	103-65-1	
Styrene	<0.063	ug/L	1.0	0.063	1		12/30/14 15:10	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	79-34-5	
Tetrachloroethene	<0.16	ug/L	1.0	0.16	1		12/30/14 15:10	127-18-4	
Tetrahydrofuran	<2.0	ug/L	10.0	2.0	1		12/30/14 15:10	109-99-9	L3
Toluene	<0.11	ug/L	1.0	0.11	1		12/30/14 15:10	108-88-3	
1,2,3-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/L	1.0	0.26	1		12/30/14 15:10	71-55-6	
1,1,2-Trichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 15:10	79-00-5	
Trichloroethene	<0.091	ug/L	0.40	0.091	1		12/30/14 15:10	79-01-6	
Trichlorofluoromethane	<0.22	ug/L	1.0	0.22	1		12/30/14 15:10	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	4.0	1.2	1		12/30/14 15:10	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	76-13-1	
1,2,4-Trimethylbenzene	0.93J	ug/L	1.0	0.50	1		12/30/14 15:10	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:10	108-67-8	
Vinyl chloride	<0.20	ug/L	0.40	0.20	1		12/30/14 15:10	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-11 **Lab ID: 10292044005** Collected: 12/16/14 10:55 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Xylene (Total)	<0.40	ug/L	3.0	0.40	1		12/30/14 15:10	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	81 %.		75-125		1		12/30/14 15:10	17060-07-0	
Toluene-d8 (S)	92 %.		75-125		1		12/30/14 15:10	2037-26-5	
4-Bromofluorobenzene (S)	93 %.		75-125		1		12/30/14 15:10	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-12 **Lab ID: 10292044006** Collected: 12/15/14 13:20 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	32.0	ug/L	0.40	0.046	10	12/19/14 18:19	12/31/14 03:55	83-32-9	
Acenaphthylene	0.20	ug/L	0.040	0.0021	1	12/19/14 18:19	12/31/14 03:30	208-96-8	
Anthracene	1.7	ug/L	0.040	0.0024	1	12/19/14 18:19	12/31/14 03:30	120-12-7	
Benzo(a)anthracene	0.054	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 03:30	56-55-3	
Benzo(a)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/31/14 03:30	50-32-8	
Benzo(b)fluoranthene	<0.0022	ug/L	0.040	0.0022	1	12/19/14 18:19	12/31/14 03:30	205-99-2	
Benzo(e)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/31/14 03:30	192-97-2	
Benzo(g,h,i)perylene	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/31/14 03:30	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 03:30	207-08-9	
2-Chloronaphthalene	<0.0029	ug/L	0.040	0.0029	1	12/19/14 18:19	12/31/14 03:30	91-58-7	
Chrysene	0.055	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 03:30	218-01-9	
Dibenz(a,h)anthracene	<0.0044	ug/L	0.040	0.0044	1	12/19/14 18:19	12/31/14 03:30	53-70-3	
Dibenzofuran	0.49	ug/L	0.040	0.0025	1	12/19/14 18:19	12/31/14 03:30	132-64-9	
Fluoranthene	1.2	ug/L	0.040	0.0031	1	12/19/14 18:19	12/31/14 03:30	206-44-0	
Fluorene	7.0	ug/L	0.40	0.021	10	12/19/14 18:19	12/31/14 03:55	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0023	ug/L	0.040	0.0023	1	12/19/14 18:19	12/31/14 03:30	193-39-5	
1-Methylnaphthalene	11.4	ug/L	0.40	0.045	10	12/19/14 18:19	12/31/14 03:55	90-12-0	
2-Methylnaphthalene	<0.0081	ug/L	0.040	0.0081	1	12/19/14 18:19	12/31/14 03:30	91-57-6	
Naphthalene	0.75	ug/L	0.16	0.014	1	12/19/14 18:19	12/31/14 03:30	91-20-3	
Phenanthrene	6.5	ug/L	0.40	0.029	10	12/19/14 18:19	12/31/14 03:55	85-01-8	
Pyrene	1.4	ug/L	0.040	0.0073	1	12/19/14 18:19	12/31/14 03:30	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60 %.		37-125		1	12/19/14 18:19	12/31/14 03:30	321-60-8	
p-Terphenyl-d14 (S)	77 %.		43-125		1	12/19/14 18:19	12/31/14 03:30	1718-51-0	
8260 VOC Analytical Method: EPA 8260									
Acetone	<10.0	ug/L	20.0	10.0	1		12/24/14 16:37	67-64-1	
Allyl chloride	<0.45	ug/L	4.0	0.45	1		12/24/14 16:37	107-05-1	
Benzene	0.71J	ug/L	1.0	0.15	1		12/24/14 16:37	71-43-2	B
Bromobenzene	<0.13	ug/L	1.0	0.13	1		12/24/14 16:37	108-86-1	
Bromochloromethane	<0.12	ug/L	1.0	0.12	1		12/24/14 16:37	74-97-5	L2
Bromodichloromethane	<0.20	ug/L	1.0	0.20	1		12/24/14 16:37	75-27-4	
Bromoform	<2.0	ug/L	4.0	2.0	1		12/24/14 16:37	75-25-2	
Bromomethane	<2.0	ug/L	4.0	2.0	1		12/24/14 16:37	74-83-9	
2-Butanone (MEK)	<2.5	ug/L	5.0	2.5	1		12/24/14 16:37	78-93-3	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 16:37	104-51-8	
sec-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 16:37	135-98-8	
tert-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 16:37	98-06-6	
Carbon tetrachloride	<0.16	ug/L	1.0	0.16	1		12/24/14 16:37	56-23-5	
Chlorobenzene	0.50J	ug/L	1.0	0.066	1		12/24/14 16:37	108-90-7	
Chloroethane	<0.27	ug/L	1.0	0.27	1		12/24/14 16:37	75-00-3	L3
Chloroform	<0.16	ug/L	1.0	0.16	1		12/24/14 16:37	67-66-3	
Chloromethane	<0.34	ug/L	4.0	0.34	1		12/24/14 16:37	74-87-3	
2-Chlorotoluene	<0.14	ug/L	1.0	0.14	1		12/24/14 16:37	95-49-8	
4-Chlorotoluene	<0.083	ug/L	1.0	0.083	1		12/24/14 16:37	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0	ug/L	4.0	2.0	1		12/24/14 16:37	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-12 **Lab ID: 10292044006** Collected: 12/15/14 13:20 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC Analytical Method: EPA 8260									
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/24/14 16:37	124-48-1	
1,2-Dibromoethane (EDB)	<0.15	ug/L	1.0	0.15	1		12/24/14 16:37	106-93-4	
Dibromomethane	<0.18	ug/L	4.0	0.18	1		12/24/14 16:37	74-95-3	
1,2-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/24/14 16:37	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 16:37	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 16:37	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	4.0	0.50	1		12/24/14 16:37	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		12/24/14 16:37	75-34-3	
1,2-Dichloroethane	<0.13	ug/L	1.0	0.13	1		12/24/14 16:37	107-06-2	
1,1-Dichloroethene	<0.20	ug/L	1.0	0.20	1		12/24/14 16:37	75-35-4	
cis-1,2-Dichloroethene	<0.13	ug/L	1.0	0.13	1		12/24/14 16:37	156-59-2	
trans-1,2-Dichloroethene	<0.23	ug/L	1.0	0.23	1		12/24/14 16:37	156-60-5	
Dichlorofluoromethane	<0.20	ug/L	1.0	0.20	1		12/24/14 16:37	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	4.0	0.14	1		12/24/14 16:37	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/24/14 16:37	142-28-9	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/24/14 16:37	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/24/14 16:37	563-58-6	
cis-1,3-Dichloropropene	<0.13	ug/L	4.0	0.13	1		12/24/14 16:37	10061-01-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/24/14 16:37	10061-02-6	
Diethyl ether (Ethyl ether)	<0.14	ug/L	4.0	0.14	1		12/24/14 16:37	60-29-7	
Ethylbenzene	<0.16	ug/L	1.0	0.16	1		12/24/14 16:37	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	1.0	0.50	1		12/24/14 16:37	87-68-3	
Isopropylbenzene (Cumene)	1.6	ug/L	1.0	0.50	1		12/24/14 16:37	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/24/14 16:37	99-87-6	
Methylene Chloride	<2.0	ug/L	4.0	2.0	1		12/24/14 16:37	75-09-2	L2
4-Methyl-2-pentanone (MIBK)	<2.5	ug/L	5.0	2.5	1		12/24/14 16:37	108-10-1	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/24/14 16:37	1634-04-4	
Naphthalene	2.1J	ug/L	4.0	2.0	1		12/24/14 16:37	91-20-3	L2
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 16:37	103-65-1	
Styrene	<0.069	ug/L	1.0	0.069	1		12/24/14 16:37	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/24/14 16:37	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/24/14 16:37	79-34-5	
Tetrachloroethene	<0.16	ug/L	1.0	0.16	1		12/24/14 16:37	127-18-4	
Tetrahydrofuran	<2.0	ug/L	10.0	2.0	1		12/24/14 16:37	109-99-9	
Toluene	0.12J	ug/L	1.0	0.11	1		12/24/14 16:37	108-88-3	
1,2,3-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 16:37	87-61-6	
1,2,4-Trichlorobenzene	1.8	ug/L	1.0	0.50	1		12/24/14 16:37	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/L	1.0	0.26	1		12/24/14 16:37	71-55-6	
1,1,2-Trichloroethane	<0.14	ug/L	1.0	0.14	1		12/24/14 16:37	79-00-5	
Trichloroethene	<0.091	ug/L	0.40	0.091	1		12/24/14 16:37	79-01-6	
Trichlorofluoromethane	<0.22	ug/L	1.0	0.22	1		12/24/14 16:37	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	4.0	1.2	1		12/24/14 16:37	96-18-4	L2
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	1.0	0.50	1		12/24/14 16:37	76-13-1	
1,2,4-Trimethylbenzene	3.3	ug/L	1.0	0.50	1		12/24/14 16:37	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 16:37	108-67-8	
Vinyl chloride	<0.10	ug/L	0.40	0.10	1		12/24/14 16:37	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP
Pace Project No.: 10292044

Sample: MW-12 **Lab ID: 10292044006** Collected: 12/15/14 13:20 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Xylene (Total)	<0.40	ug/L	3.0	0.40	1		12/24/14 16:37	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104 %.		75-125		1		12/24/14 16:37	17060-07-0	P2
Toluene-d8 (S)	102 %.		75-125		1		12/24/14 16:37	2037-26-5	
4-Bromofluorobenzene (S)	102 %.		75-125		1		12/24/14 16:37	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-14 **Lab ID: 10292044007** Collected: 12/16/14 14:20 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	<0.0046	ug/L	0.040	0.0046	1	12/19/14 18:19	12/30/14 20:27	83-32-9	
Acenaphthylene	<0.0021	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 20:27	208-96-8	
Anthracene	<0.0024	ug/L	0.040	0.0024	1	12/19/14 18:19	12/30/14 20:27	120-12-7	
Benzo(a)anthracene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 20:27	56-55-3	
Benzo(a)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 20:27	50-32-8	
Benzo(b)fluoranthene	<0.0022	ug/L	0.040	0.0022	1	12/19/14 18:19	12/30/14 20:27	205-99-2	
Benzo(e)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 20:27	192-97-2	
Benzo(g,h,i)perylene	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 20:27	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 20:27	207-08-9	
2-Chloronaphthalene	<0.0029	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 20:27	91-58-7	
Chrysene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 20:27	218-01-9	
Dibenz(a,h)anthracene	<0.0044	ug/L	0.040	0.0044	1	12/19/14 18:19	12/30/14 20:27	53-70-3	
Dibenzofuran	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 20:27	132-64-9	
Fluoranthene	<0.0031	ug/L	0.040	0.0031	1	12/19/14 18:19	12/30/14 20:27	206-44-0	
Fluorene	<0.0021	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 20:27	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0023	ug/L	0.040	0.0023	1	12/19/14 18:19	12/30/14 20:27	193-39-5	
1-Methylnaphthalene	<0.0045	ug/L	0.040	0.0045	1	12/19/14 18:19	12/30/14 20:27	90-12-0	
2-Methylnaphthalene	<0.0081	ug/L	0.040	0.0081	1	12/19/14 18:19	12/30/14 20:27	91-57-6	
Naphthalene	<0.014	ug/L	0.16	0.014	1	12/19/14 18:19	12/30/14 20:27	91-20-3	
Phenanthrene	<0.0029	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 20:27	85-01-8	
Pyrene	<0.0073	ug/L	0.040	0.0073	1	12/19/14 18:19	12/30/14 20:27	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62 %.		37-125		1	12/19/14 18:19	12/30/14 20:27	321-60-8	
p-Terphenyl-d14 (S)	73 %.		43-125		1	12/19/14 18:19	12/30/14 20:27	1718-51-0	
8260 VOC		Analytical Method: EPA 8260							
Acetone	<10.0	ug/L	20.0	10.0	1		12/30/14 15:25	67-64-1	
Allyl chloride	<0.45	ug/L	4.0	0.45	1		12/30/14 15:25	107-05-1	
Benzene	<0.15	ug/L	1.0	0.15	1		12/30/14 15:25	71-43-2	
Bromobenzene	<0.13	ug/L	1.0	0.13	1		12/30/14 15:25	108-86-1	
Bromochloromethane	<0.12	ug/L	1.0	0.12	1		12/30/14 15:25	74-97-5	
Bromodichloromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 15:25	75-27-4	
Bromoform	<2.0	ug/L	4.0	2.0	1		12/30/14 15:25	75-25-2	
Bromomethane	<2.0	ug/L	10.0	2.0	1		12/30/14 15:25	74-83-9	
2-Butanone (MEK)	<2.5	ug/L	5.0	2.5	1		12/30/14 15:25	78-93-3	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	104-51-8	
sec-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	135-98-8	
tert-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	98-06-6	
Carbon tetrachloride	<0.16	ug/L	1.0	0.16	1		12/30/14 15:25	56-23-5	
Chlorobenzene	<0.066	ug/L	1.0	0.066	1		12/30/14 15:25	108-90-7	
Chloroethane	<0.24	ug/L	1.0	0.24	1		12/30/14 15:25	75-00-3	
Chloroform	<0.16	ug/L	1.0	0.16	1		12/30/14 15:25	67-66-3	
Chloromethane	<0.34	ug/L	4.0	0.34	1		12/30/14 15:25	74-87-3	
2-Chlorotoluene	<0.14	ug/L	1.0	0.14	1		12/30/14 15:25	95-49-8	
4-Chlorotoluene	<0.083	ug/L	1.0	0.083	1		12/30/14 15:25	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0	ug/L	4.0	2.0	1		12/30/14 15:25	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-14 Lab ID: 10292044007 Collected: 12/16/14 14:20 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC Analytical Method: EPA 8260									
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	124-48-1	
1,2-Dibromoethane (EDB)	<0.15	ug/L	1.0	0.15	1		12/30/14 15:25	106-93-4	
Dibromomethane	<0.18	ug/L	4.0	0.18	1		12/30/14 15:25	74-95-3	
1,2-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/30/14 15:25	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	4.0	0.50	1		12/30/14 15:25	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		12/30/14 15:25	75-34-3	
1,2-Dichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 15:25	107-06-2	
1,1-Dichloroethene	<0.20	ug/L	1.0	0.20	1		12/30/14 15:25	75-35-4	
cis-1,2-Dichloroethene	<0.13	ug/L	1.0	0.13	1		12/30/14 15:25	156-59-2	
trans-1,2-Dichloroethene	<0.23	ug/L	1.0	0.23	1		12/30/14 15:25	156-60-5	
Dichlorofluoromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 15:25	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	4.0	0.14	1		12/30/14 15:25	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	142-28-9	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/30/14 15:25	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	563-58-6	
cis-1,3-Dichloropropene	<0.13	ug/L	4.0	0.13	1		12/30/14 15:25	10061-01-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/30/14 15:25	10061-02-6	
Diethyl ether (Ethyl ether)	<0.14	ug/L	4.0	0.14	1		12/30/14 15:25	60-29-7	
Ethylbenzene	<0.16	ug/L	1.0	0.16	1		12/30/14 15:25	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	99-87-6	
Methylene Chloride	<2.0	ug/L	4.0	2.0	1		12/30/14 15:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	<2.5	ug/L	5.0	2.5	1		12/30/14 15:25	108-10-1	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/30/14 15:25	1634-04-4	
Naphthalene	<2.0	ug/L	4.0	2.0	1		12/30/14 15:25	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	103-65-1	
Styrene	<0.063	ug/L	1.0	0.063	1		12/30/14 15:25	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	79-34-5	
Tetrachloroethene	<0.16	ug/L	1.0	0.16	1		12/30/14 15:25	127-18-4	
Tetrahydrofuran	<2.0	ug/L	10.0	2.0	1		12/30/14 15:25	109-99-9	L3
Toluene	<0.11	ug/L	1.0	0.11	1		12/30/14 15:25	108-88-3	
1,2,3-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/L	1.0	0.26	1		12/30/14 15:25	71-55-6	
1,1,2-Trichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 15:25	79-00-5	
Trichloroethene	<0.091	ug/L	0.40	0.091	1		12/30/14 15:25	79-01-6	
Trichlorofluoromethane	<0.22	ug/L	1.0	0.22	1		12/30/14 15:25	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	4.0	1.2	1		12/30/14 15:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	76-13-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:25	108-67-8	
Vinyl chloride	<0.20	ug/L	0.40	0.20	1		12/30/14 15:25	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-14 **Lab ID: 10292044007** Collected: 12/16/14 14:20 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Xylene (Total)	<0.40	ug/L	3.0	0.40	1		12/30/14 15:25	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	84 %.		75-125		1		12/30/14 15:25	17060-07-0	
Toluene-d8 (S)	92 %.		75-125		1		12/30/14 15:25	2037-26-5	
4-Bromofluorobenzene (S)	94 %.		75-125		1		12/30/14 15:25	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-15 **Lab ID: 10292044008** Collected: 12/15/14 12:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	15.3	ug/L	0.40	0.046	10	12/19/14 18:19	12/31/14 04:46	83-32-9	
Acenaphthylene	0.46	ug/L	0.040	0.0021	1	12/19/14 18:19	12/31/14 04:21	208-96-8	
Anthracene	0.83	ug/L	0.040	0.0024	1	12/19/14 18:19	12/31/14 04:21	120-12-7	
Benzo(a)anthracene	0.54	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 04:21	56-55-3	
Benzo(a)pyrene	0.46	ug/L	0.040	0.0030	1	12/19/14 18:19	12/31/14 04:21	50-32-8	
Benzo(b)fluoranthene	0.34	ug/L	0.040	0.0022	1	12/19/14 18:19	12/31/14 04:21	205-99-2	
Benzo(e)pyrene	0.21	ug/L	0.040	0.0030	1	12/19/14 18:19	12/31/14 04:21	192-97-2	
Benzo(g,h,i)perylene	0.16	ug/L	0.040	0.0025	1	12/19/14 18:19	12/31/14 04:21	191-24-2	
Benzo(k)fluoranthene	0.13	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 04:21	207-08-9	
2-Chloronaphthalene	0.12	ug/L	0.040	0.0029	1	12/19/14 18:19	12/31/14 04:21	91-58-7	
Chrysene	0.53	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 04:21	218-01-9	
Dibenz(a,h)anthracene	0.038J	ug/L	0.040	0.0044	1	12/19/14 18:19	12/31/14 04:21	53-70-3	
Dibenzofuran	0.44	ug/L	0.040	0.0025	1	12/19/14 18:19	12/31/14 04:21	132-64-9	
Fluoranthene	2.1	ug/L	0.040	0.0031	1	12/19/14 18:19	12/31/14 04:21	206-44-0	
Fluorene	2.5	ug/L	0.040	0.0021	1	12/19/14 18:19	12/31/14 04:21	86-73-7	
Indeno(1,2,3-cd)pyrene	0.13	ug/L	0.040	0.0023	1	12/19/14 18:19	12/31/14 04:21	193-39-5	
1-Methylnaphthalene	2.1	ug/L	0.040	0.0045	1	12/19/14 18:19	12/31/14 04:21	90-12-0	
2-Methylnaphthalene	<0.0081	ug/L	0.040	0.0081	1	12/19/14 18:19	12/31/14 04:21	91-57-6	
Naphthalene	0.17	ug/L	0.16	0.014	1	12/19/14 18:19	12/31/14 04:21	91-20-3	
Phenanthrene	0.097	ug/L	0.040	0.0029	1	12/19/14 18:19	12/31/14 04:21	85-01-8	
Pyrene	2.6	ug/L	0.040	0.0073	1	12/19/14 18:19	12/31/14 04:21	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66 %.		37-125		1	12/19/14 18:19	12/31/14 04:21	321-60-8	
p-Terphenyl-d14 (S)	84 %.		43-125		1	12/19/14 18:19	12/31/14 04:21	1718-51-0	
8260 VOC									
Analytical Method: EPA 8260									
Acetone	<10.0	ug/L	20.0	10.0	1		12/24/14 17:01	67-64-1	
Allyl chloride	<0.45	ug/L	4.0	0.45	1		12/24/14 17:01	107-05-1	
Benzene	<0.15	ug/L	1.0	0.15	1		12/24/14 17:01	71-43-2	
Bromobenzene	<0.13	ug/L	1.0	0.13	1		12/24/14 17:01	108-86-1	
Bromochloromethane	<0.12	ug/L	1.0	0.12	1		12/24/14 17:01	74-97-5	L2
Bromodichloromethane	<0.20	ug/L	1.0	0.20	1		12/24/14 17:01	75-27-4	
Bromoform	<2.0	ug/L	4.0	2.0	1		12/24/14 17:01	75-25-2	
Bromomethane	<2.0	ug/L	4.0	2.0	1		12/24/14 17:01	74-83-9	
2-Butanone (MEK)	<2.5	ug/L	5.0	2.5	1		12/24/14 17:01	78-93-3	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	104-51-8	
sec-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	135-98-8	
tert-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	98-06-6	
Carbon tetrachloride	<0.16	ug/L	1.0	0.16	1		12/24/14 17:01	56-23-5	
Chlorobenzene	<0.066	ug/L	1.0	0.066	1		12/24/14 17:01	108-90-7	
Chloroethane	<0.27	ug/L	1.0	0.27	1		12/24/14 17:01	75-00-3	L3
Chloroform	<0.16	ug/L	1.0	0.16	1		12/24/14 17:01	67-66-3	
Chloromethane	<0.34	ug/L	4.0	0.34	1		12/24/14 17:01	74-87-3	
2-Chlorotoluene	<0.14	ug/L	1.0	0.14	1		12/24/14 17:01	95-49-8	
4-Chlorotoluene	<0.083	ug/L	1.0	0.083	1		12/24/14 17:01	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0	ug/L	4.0	2.0	1		12/24/14 17:01	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP
Pace Project No.: 10292044

Sample: MW-15 Lab ID: 10292044008 Collected: 12/15/14 12:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC Analytical Method: EPA 8260									
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	124-48-1	
1,2-Dibromoethane (EDB)	<0.15	ug/L	1.0	0.15	1		12/24/14 17:01	106-93-4	
Dibromomethane	<0.18	ug/L	4.0	0.18	1		12/24/14 17:01	74-95-3	
1,2-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/24/14 17:01	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	4.0	0.50	1		12/24/14 17:01	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		12/24/14 17:01	75-34-3	
1,2-Dichloroethane	<0.13	ug/L	1.0	0.13	1		12/24/14 17:01	107-06-2	
1,1-Dichloroethene	<0.20	ug/L	1.0	0.20	1		12/24/14 17:01	75-35-4	
cis-1,2-Dichloroethene	<0.13	ug/L	1.0	0.13	1		12/24/14 17:01	156-59-2	
trans-1,2-Dichloroethene	<0.23	ug/L	1.0	0.23	1		12/24/14 17:01	156-60-5	
Dichlorofluoromethane	<0.20	ug/L	1.0	0.20	1		12/24/14 17:01	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	4.0	0.14	1		12/24/14 17:01	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	142-28-9	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/24/14 17:01	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	563-58-6	
cis-1,3-Dichloropropene	<0.13	ug/L	4.0	0.13	1		12/24/14 17:01	10061-01-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/24/14 17:01	10061-02-6	
Diethyl ether (Ethyl ether)	<0.14	ug/L	4.0	0.14	1		12/24/14 17:01	60-29-7	
Ethylbenzene	<0.16	ug/L	1.0	0.16	1		12/24/14 17:01	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	99-87-6	
Methylene Chloride	<2.0	ug/L	4.0	2.0	1		12/24/14 17:01	75-09-2	L2
4-Methyl-2-pentanone (MIBK)	<2.5	ug/L	5.0	2.5	1		12/24/14 17:01	108-10-1	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/24/14 17:01	1634-04-4	
Naphthalene	<2.0	ug/L	4.0	2.0	1		12/24/14 17:01	91-20-3	L2
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	103-65-1	
Styrene	<0.069	ug/L	1.0	0.069	1		12/24/14 17:01	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	79-34-5	
Tetrachloroethene	<0.16	ug/L	1.0	0.16	1		12/24/14 17:01	127-18-4	
Tetrahydrofuran	<2.0	ug/L	10.0	2.0	1		12/24/14 17:01	109-99-9	
Toluene	<0.11	ug/L	1.0	0.11	1		12/24/14 17:01	108-88-3	
1,2,3-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/L	1.0	0.26	1		12/24/14 17:01	71-55-6	
1,1,2-Trichloroethane	<0.14	ug/L	1.0	0.14	1		12/24/14 17:01	79-00-5	
Trichloroethene	<0.091	ug/L	0.40	0.091	1		12/24/14 17:01	79-01-6	
Trichlorofluoromethane	<0.22	ug/L	1.0	0.22	1		12/24/14 17:01	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	4.0	1.2	1		12/24/14 17:01	96-18-4	L2
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	76-13-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:01	108-67-8	
Vinyl chloride	<0.10	ug/L	0.40	0.10	1		12/24/14 17:01	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-15 **Lab ID: 10292044008** Collected: 12/15/14 12:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC									
Analytical Method: EPA 8260									
Xylene (Total)	<0.40	ug/L	3.0	0.40	1		12/24/14 17:01	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%.	75-125		1		12/24/14 17:01	17060-07-0	P2
Toluene-d8 (S)	100	%.	75-125		1		12/24/14 17:01	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125		1		12/24/14 17:01	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-16 Lab ID: 10292044009 Collected: 12/15/14 14:10 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	<0.0046	ug/L	0.040	0.0046	1	12/19/14 18:19	12/30/14 20:53	83-32-9	
Acenaphthylene	<0.0021	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 20:53	208-96-8	
Anthracene	<0.0024	ug/L	0.040	0.0024	1	12/19/14 18:19	12/30/14 20:53	120-12-7	
Benzo(a)anthracene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 20:53	56-55-3	
Benzo(a)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 20:53	50-32-8	
Benzo(b)fluoranthene	<0.0022	ug/L	0.040	0.0022	1	12/19/14 18:19	12/30/14 20:53	205-99-2	
Benzo(e)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 20:53	192-97-2	
Benzo(g,h,i)perylene	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 20:53	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 20:53	207-08-9	
2-Chloronaphthalene	<0.0029	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 20:53	91-58-7	
Chrysene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 20:53	218-01-9	
Dibenz(a,h)anthracene	<0.0044	ug/L	0.040	0.0044	1	12/19/14 18:19	12/30/14 20:53	53-70-3	
Dibenzofuran	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 20:53	132-64-9	
Fluoranthene	<0.0031	ug/L	0.040	0.0031	1	12/19/14 18:19	12/30/14 20:53	206-44-0	
Fluorene	<0.0021	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 20:53	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0023	ug/L	0.040	0.0023	1	12/19/14 18:19	12/30/14 20:53	193-39-5	
1-Methylnaphthalene	<0.0045	ug/L	0.040	0.0045	1	12/19/14 18:19	12/30/14 20:53	90-12-0	
2-Methylnaphthalene	<0.0081	ug/L	0.040	0.0081	1	12/19/14 18:19	12/30/14 20:53	91-57-6	
Naphthalene	<0.014	ug/L	0.16	0.014	1	12/19/14 18:19	12/30/14 20:53	91-20-3	
Phenanthrene	<0.0029	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 20:53	85-01-8	
Pyrene	<0.0073	ug/L	0.040	0.0073	1	12/19/14 18:19	12/30/14 20:53	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69 %.		37-125		1	12/19/14 18:19	12/30/14 20:53	321-60-8	
p-Terphenyl-d14 (S)	80 %.		43-125		1	12/19/14 18:19	12/30/14 20:53	1718-51-0	
8260 VOC		Analytical Method: EPA 8260							
Acetone	<10.0	ug/L	20.0	10.0	1		12/24/14 17:25	67-64-1	
Allyl chloride	<0.45	ug/L	4.0	0.45	1		12/24/14 17:25	107-05-1	
Benzene	<0.15	ug/L	1.0	0.15	1		12/24/14 17:25	71-43-2	
Bromobenzene	<0.13	ug/L	1.0	0.13	1		12/24/14 17:25	108-86-1	
Bromochloromethane	<0.12	ug/L	1.0	0.12	1		12/24/14 17:25	74-97-5	L2
Bromodichloromethane	<0.20	ug/L	1.0	0.20	1		12/24/14 17:25	75-27-4	
Bromoform	<2.0	ug/L	4.0	2.0	1		12/24/14 17:25	75-25-2	
Bromomethane	<2.0	ug/L	4.0	2.0	1		12/24/14 17:25	74-83-9	
2-Butanone (MEK)	<2.5	ug/L	5.0	2.5	1		12/24/14 17:25	78-93-3	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	104-51-8	
sec-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	135-98-8	
tert-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	98-06-6	
Carbon tetrachloride	<0.16	ug/L	1.0	0.16	1		12/24/14 17:25	56-23-5	
Chlorobenzene	<0.066	ug/L	1.0	0.066	1		12/24/14 17:25	108-90-7	
Chloroethane	<0.27	ug/L	1.0	0.27	1		12/24/14 17:25	75-00-3	L3
Chloroform	<0.16	ug/L	1.0	0.16	1		12/24/14 17:25	67-66-3	
Chloromethane	<0.34	ug/L	4.0	0.34	1		12/24/14 17:25	74-87-3	
2-Chlorotoluene	<0.14	ug/L	1.0	0.14	1		12/24/14 17:25	95-49-8	
4-Chlorotoluene	<0.083	ug/L	1.0	0.083	1		12/24/14 17:25	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0	ug/L	4.0	2.0	1		12/24/14 17:25	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-16 **Lab ID: 10292044009** Collected: 12/15/14 14:10 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC Analytical Method: EPA 8260									
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	124-48-1	
1,2-Dibromoethane (EDB)	<0.15	ug/L	1.0	0.15	1		12/24/14 17:25	106-93-4	
Dibromomethane	<0.18	ug/L	4.0	0.18	1		12/24/14 17:25	74-95-3	
1,2-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/24/14 17:25	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	4.0	0.50	1		12/24/14 17:25	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		12/24/14 17:25	75-34-3	
1,2-Dichloroethane	<0.13	ug/L	1.0	0.13	1		12/24/14 17:25	107-06-2	
1,1-Dichloroethene	<0.20	ug/L	1.0	0.20	1		12/24/14 17:25	75-35-4	
cis-1,2-Dichloroethene	<0.13	ug/L	1.0	0.13	1		12/24/14 17:25	156-59-2	
trans-1,2-Dichloroethene	<0.23	ug/L	1.0	0.23	1		12/24/14 17:25	156-60-5	
Dichlorofluoromethane	<0.20	ug/L	1.0	0.20	1		12/24/14 17:25	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	4.0	0.14	1		12/24/14 17:25	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	142-28-9	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/24/14 17:25	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	563-58-6	
cis-1,3-Dichloropropene	<0.13	ug/L	4.0	0.13	1		12/24/14 17:25	10061-01-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/24/14 17:25	10061-02-6	
Diethyl ether (Ethyl ether)	<0.14	ug/L	4.0	0.14	1		12/24/14 17:25	60-29-7	
Ethylbenzene	<0.16	ug/L	1.0	0.16	1		12/24/14 17:25	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	99-87-6	
Methylene Chloride	<2.0	ug/L	4.0	2.0	1		12/24/14 17:25	75-09-2	L2
4-Methyl-2-pentanone (MIBK)	<2.5	ug/L	5.0	2.5	1		12/24/14 17:25	108-10-1	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/24/14 17:25	1634-04-4	
Naphthalene	<2.0	ug/L	4.0	2.0	1		12/24/14 17:25	91-20-3	L2
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	103-65-1	
Styrene	<0.069	ug/L	1.0	0.069	1		12/24/14 17:25	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	79-34-5	
Tetrachloroethene	<0.16	ug/L	1.0	0.16	1		12/24/14 17:25	127-18-4	
Tetrahydrofuran	<2.0	ug/L	10.0	2.0	1		12/24/14 17:25	109-99-9	
Toluene	<0.11	ug/L	1.0	0.11	1		12/24/14 17:25	108-88-3	
1,2,3-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/L	1.0	0.26	1		12/24/14 17:25	71-55-6	
1,1,2-Trichloroethane	<0.14	ug/L	1.0	0.14	1		12/24/14 17:25	79-00-5	
Trichloroethene	<0.091	ug/L	0.40	0.091	1		12/24/14 17:25	79-01-6	
Trichlorofluoromethane	<0.22	ug/L	1.0	0.22	1		12/24/14 17:25	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	4.0	1.2	1		12/24/14 17:25	96-18-4	L2
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	76-13-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/24/14 17:25	108-67-8	
Vinyl chloride	<0.10	ug/L	0.40	0.10	1		12/24/14 17:25	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-16 **Lab ID: 10292044009** Collected: 12/15/14 14:10 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC									
Analytical Method: EPA 8260									
Xylene (Total)	<0.40	ug/L	3.0	0.40	1		12/24/14 17:25	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101 %.		75-125		1		12/24/14 17:25	17060-07-0	P2
Toluene-d8 (S)	100 %.		75-125		1		12/24/14 17:25	2037-26-5	
4-Bromofluorobenzene (S)	101 %.		75-125		1		12/24/14 17:25	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-17 **Lab ID: 10292044010** Collected: 12/16/14 09:30 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	0.025J	ug/L	0.040	0.0046	1	12/19/14 18:19	12/30/14 21:18	83-32-9	
Acenaphthylene	<0.0021	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 21:18	208-96-8	
Anthracene	<0.0024	ug/L	0.040	0.0024	1	12/19/14 18:19	12/30/14 21:18	120-12-7	
Benzo(a)anthracene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 21:18	56-55-3	
Benzo(a)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 21:18	50-32-8	
Benzo(b)fluoranthene	<0.0022	ug/L	0.040	0.0022	1	12/19/14 18:19	12/30/14 21:18	205-99-2	
Benzo(e)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 21:18	192-97-2	
Benzo(g,h,i)perylene	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 21:18	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 21:18	207-08-9	
2-Chloronaphthalene	<0.0029	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 21:18	91-58-7	
Chrysene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 21:18	218-01-9	
Dibenz(a,h)anthracene	<0.0044	ug/L	0.040	0.0044	1	12/19/14 18:19	12/30/14 21:18	53-70-3	
Dibenzofuran	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 21:18	132-64-9	
Fluoranthene	<0.0031	ug/L	0.040	0.0031	1	12/19/14 18:19	12/30/14 21:18	206-44-0	
Fluorene	<0.0021	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 21:18	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0023	ug/L	0.040	0.0023	1	12/19/14 18:19	12/30/14 21:18	193-39-5	
1-Methylnaphthalene	<0.0045	ug/L	0.040	0.0045	1	12/19/14 18:19	12/30/14 21:18	90-12-0	
2-Methylnaphthalene	<0.0081	ug/L	0.040	0.0081	1	12/19/14 18:19	12/30/14 21:18	91-57-6	
Naphthalene	<0.014	ug/L	0.16	0.014	1	12/19/14 18:19	12/30/14 21:18	91-20-3	
Phenanthrene	<0.0029	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 21:18	85-01-8	
Pyrene	<0.0073	ug/L	0.040	0.0073	1	12/19/14 18:19	12/30/14 21:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65 %.		37-125		1	12/19/14 18:19	12/30/14 21:18	321-60-8	
p-Terphenyl-d14 (S)	81 %.		43-125		1	12/19/14 18:19	12/30/14 21:18	1718-51-0	
8260 VOC		Analytical Method: EPA 8260							
Acetone	<10.0	ug/L	20.0	10.0	1		12/30/14 15:39	67-64-1	
Allyl chloride	<0.45	ug/L	4.0	0.45	1		12/30/14 15:39	107-05-1	
Benzene	<0.15	ug/L	1.0	0.15	1		12/30/14 15:39	71-43-2	
Bromobenzene	<0.13	ug/L	1.0	0.13	1		12/30/14 15:39	108-86-1	
Bromochloromethane	<0.12	ug/L	1.0	0.12	1		12/30/14 15:39	74-97-5	
Bromodichloromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 15:39	75-27-4	
Bromoform	<2.0	ug/L	4.0	2.0	1		12/30/14 15:39	75-25-2	
Bromomethane	<2.0	ug/L	10.0	2.0	1		12/30/14 15:39	74-83-9	
2-Butanone (MEK)	<2.5	ug/L	5.0	2.5	1		12/30/14 15:39	78-93-3	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	104-51-8	
sec-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	135-98-8	
tert-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	98-06-6	
Carbon tetrachloride	<0.16	ug/L	1.0	0.16	1		12/30/14 15:39	56-23-5	
Chlorobenzene	<0.066	ug/L	1.0	0.066	1		12/30/14 15:39	108-90-7	
Chloroethane	<0.24	ug/L	1.0	0.24	1		12/30/14 15:39	75-00-3	
Chloroform	<0.16	ug/L	1.0	0.16	1		12/30/14 15:39	67-66-3	
Chloromethane	<0.34	ug/L	4.0	0.34	1		12/30/14 15:39	74-87-3	
2-Chlorotoluene	<0.14	ug/L	1.0	0.14	1		12/30/14 15:39	95-49-8	
4-Chlorotoluene	<0.083	ug/L	1.0	0.083	1		12/30/14 15:39	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0	ug/L	4.0	2.0	1		12/30/14 15:39	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-17 Lab ID: 10292044010 Collected: 12/16/14 09:30 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC Analytical Method: EPA 8260									
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	124-48-1	
1,2-Dibromoethane (EDB)	<0.15	ug/L	1.0	0.15	1		12/30/14 15:39	106-93-4	
Dibromomethane	<0.18	ug/L	4.0	0.18	1		12/30/14 15:39	74-95-3	
1,2-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/30/14 15:39	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	4.0	0.50	1		12/30/14 15:39	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		12/30/14 15:39	75-34-3	
1,2-Dichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 15:39	107-06-2	
1,1-Dichloroethene	<0.20	ug/L	1.0	0.20	1		12/30/14 15:39	75-35-4	
cis-1,2-Dichloroethene	<0.13	ug/L	1.0	0.13	1		12/30/14 15:39	156-59-2	
trans-1,2-Dichloroethene	<0.23	ug/L	1.0	0.23	1		12/30/14 15:39	156-60-5	
Dichlorofluoromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 15:39	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	4.0	0.14	1		12/30/14 15:39	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	142-28-9	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/30/14 15:39	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	563-58-6	
cis-1,3-Dichloropropene	<0.13	ug/L	4.0	0.13	1		12/30/14 15:39	10061-01-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/30/14 15:39	10061-02-6	
Diethyl ether (Ethyl ether)	<0.14	ug/L	4.0	0.14	1		12/30/14 15:39	60-29-7	
Ethylbenzene	<0.16	ug/L	1.0	0.16	1		12/30/14 15:39	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	99-87-6	
Methylene Chloride	<2.0	ug/L	4.0	2.0	1		12/30/14 15:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	<2.5	ug/L	5.0	2.5	1		12/30/14 15:39	108-10-1	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/30/14 15:39	1634-04-4	
Naphthalene	<2.0	ug/L	4.0	2.0	1		12/30/14 15:39	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	103-65-1	
Styrene	<0.063	ug/L	1.0	0.063	1		12/30/14 15:39	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	79-34-5	
Tetrachloroethene	<0.16	ug/L	1.0	0.16	1		12/30/14 15:39	127-18-4	
Tetrahydrofuran	<2.0	ug/L	10.0	2.0	1		12/30/14 15:39	109-99-9	L3
Toluene	<0.11	ug/L	1.0	0.11	1		12/30/14 15:39	108-88-3	
1,2,3-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/L	1.0	0.26	1		12/30/14 15:39	71-55-6	
1,1,2-Trichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 15:39	79-00-5	
Trichloroethene	<0.091	ug/L	0.40	0.091	1		12/30/14 15:39	79-01-6	
Trichlorofluoromethane	<0.22	ug/L	1.0	0.22	1		12/30/14 15:39	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	4.0	1.2	1		12/30/14 15:39	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	76-13-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:39	108-67-8	
Vinyl chloride	<0.20	ug/L	0.40	0.20	1		12/30/14 15:39	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-17 **Lab ID: 10292044010** Collected: 12/16/14 09:30 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC									
Analytical Method: EPA 8260									
Xylene (Total)	<0.40	ug/L	3.0	0.40	1		12/30/14 15:39	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	84 %.		75-125		1		12/30/14 15:39	17060-07-0	
Toluene-d8 (S)	91 %.		75-125		1		12/30/14 15:39	2037-26-5	
4-Bromofluorobenzene (S)	91 %.		75-125		1		12/30/14 15:39	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-20 Lab ID: 10292044011 Collected: 12/15/14 12:20 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	38.2	ug/L	0.40	0.046	10	12/19/14 18:19	12/31/14 05:37	83-32-9	
Acenaphthylene	0.17	ug/L	0.040	0.0021	1	12/19/14 18:19	12/31/14 05:11	208-96-8	
Anthracene	0.11	ug/L	0.040	0.0024	1	12/19/14 18:19	12/31/14 05:11	120-12-7	
Benzo(a)anthracene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 05:11	56-55-3	
Benzo(a)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/31/14 05:11	50-32-8	
Benzo(b)fluoranthene	<0.0022	ug/L	0.040	0.0022	1	12/19/14 18:19	12/31/14 05:11	205-99-2	
Benzo(e)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/31/14 05:11	192-97-2	
Benzo(g,h,i)perylene	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/31/14 05:11	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 05:11	207-08-9	
2-Chloronaphthalene	0.046	ug/L	0.040	0.0029	1	12/19/14 18:19	12/31/14 05:11	91-58-7	
Chrysene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 05:11	218-01-9	
Dibenz(a,h)anthracene	<0.0044	ug/L	0.040	0.0044	1	12/19/14 18:19	12/31/14 05:11	53-70-3	
Dibenzofuran	0.14	ug/L	0.040	0.0025	1	12/19/14 18:19	12/31/14 05:11	132-64-9	
Fluoranthene	0.13	ug/L	0.040	0.0031	1	12/19/14 18:19	12/31/14 05:11	206-44-0	
Fluorene	3.5	ug/L	0.040	0.0021	1	12/19/14 18:19	12/31/14 05:11	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0023	ug/L	0.040	0.0023	1	12/19/14 18:19	12/31/14 05:11	193-39-5	
1-Methylnaphthalene	47.9	ug/L	0.40	0.045	10	12/19/14 18:19	12/31/14 05:37	90-12-0	
2-Methylnaphthalene	<0.0081	ug/L	0.040	0.0081	1	12/19/14 18:19	12/31/14 05:11	91-57-6	
Naphthalene	14.5	ug/L	1.6	0.14	10	12/19/14 18:19	12/31/14 05:37	91-20-3	
Phenanthrene	0.44	ug/L	0.040	0.0029	1	12/19/14 18:19	12/31/14 05:11	85-01-8	
Pyrene	0.10	ug/L	0.040	0.0073	1	12/19/14 18:19	12/31/14 05:11	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60 %.		37-125		1	12/19/14 18:19	12/31/14 05:11	321-60-8	
p-Terphenyl-d14 (S)	74 %.		43-125		1	12/19/14 18:19	12/31/14 05:11	1718-51-0	
8260 VOC									
Analytical Method: EPA 8260									
Acetone	<1000	ug/L	2000	1000	100		12/24/14 20:11	67-64-1	
Allyl chloride	<44.6	ug/L	400	44.6	100		12/24/14 20:11	107-05-1	
Benzene	23300	ug/L	100	15.0	100		12/24/14 20:11	71-43-2	
Bromobenzene	<13.2	ug/L	100	13.2	100		12/24/14 20:11	108-86-1	
Bromochloromethane	<11.5	ug/L	100	11.5	100		12/24/14 20:11	74-97-5	L2
Bromodichloromethane	<20.2	ug/L	100	20.2	100		12/24/14 20:11	75-27-4	
Bromoform	<200	ug/L	400	200	100		12/24/14 20:11	75-25-2	
Bromomethane	<200	ug/L	400	200	100		12/24/14 20:11	74-83-9	
2-Butanone (MEK)	<250	ug/L	500	250	100		12/24/14 20:11	78-93-3	
n-Butylbenzene	<50.0	ug/L	100	50.0	100		12/24/14 20:11	104-51-8	
sec-Butylbenzene	<50.0	ug/L	100	50.0	100		12/24/14 20:11	135-98-8	
tert-Butylbenzene	<50.0	ug/L	100	50.0	100		12/24/14 20:11	98-06-6	
Carbon tetrachloride	<15.9	ug/L	100	15.9	100		12/24/14 20:11	56-23-5	
Chlorobenzene	<6.6	ug/L	100	6.6	100		12/24/14 20:11	108-90-7	
Chloroethane	<26.8	ug/L	100	26.8	100		12/24/14 20:11	75-00-3	L3
Chloroform	<16.1	ug/L	100	16.1	100		12/24/14 20:11	67-66-3	
Chloromethane	<34.1	ug/L	400	34.1	100		12/24/14 20:11	74-87-3	
2-Chlorotoluene	<13.8	ug/L	100	13.8	100		12/24/14 20:11	95-49-8	
4-Chlorotoluene	<8.3	ug/L	100	8.3	100		12/24/14 20:11	106-43-4	
1,2-Dibromo-3-chloropropane	<200	ug/L	400	200	100		12/24/14 20:11	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-20 **Lab ID: 10292044011** Collected: 12/15/14 12:20 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC Analytical Method: EPA 8260									
Dibromochloromethane	<50.0	ug/L	100	50.0	100		12/24/14 20:11	124-48-1	
1,2-Dibromoethane (EDB)	<14.8	ug/L	100	14.8	100		12/24/14 20:11	106-93-4	
Dibromomethane	<18.5	ug/L	400	18.5	100		12/24/14 20:11	74-95-3	
1,2-Dichlorobenzene	<16.0	ug/L	100	16.0	100		12/24/14 20:11	95-50-1	
1,3-Dichlorobenzene	<50.0	ug/L	100	50.0	100		12/24/14 20:11	541-73-1	
1,4-Dichlorobenzene	<50.0	ug/L	100	50.0	100		12/24/14 20:11	106-46-7	
Dichlorodifluoromethane	<50.0	ug/L	400	50.0	100		12/24/14 20:11	75-71-8	
1,1-Dichloroethane	<15.9	ug/L	100	15.9	100		12/24/14 20:11	75-34-3	
1,2-Dichloroethane	<13.1	ug/L	100	13.1	100		12/24/14 20:11	107-06-2	
1,1-Dichloroethene	<19.9	ug/L	100	19.9	100		12/24/14 20:11	75-35-4	
cis-1,2-Dichloroethene	<13.3	ug/L	100	13.3	100		12/24/14 20:11	156-59-2	
trans-1,2-Dichloroethene	<23.1	ug/L	100	23.1	100		12/24/14 20:11	156-60-5	
Dichlorofluoromethane	<20.2	ug/L	100	20.2	100		12/24/14 20:11	75-43-4	
1,2-Dichloropropane	<14.2	ug/L	400	14.2	100		12/24/14 20:11	78-87-5	
1,3-Dichloropropane	<50.0	ug/L	100	50.0	100		12/24/14 20:11	142-28-9	
2,2-Dichloropropane	<17.4	ug/L	400	17.4	100		12/24/14 20:11	594-20-7	
1,1-Dichloropropene	<50.0	ug/L	100	50.0	100		12/24/14 20:11	563-58-6	
cis-1,3-Dichloropropene	<12.7	ug/L	400	12.7	100		12/24/14 20:11	10061-01-5	
trans-1,3-Dichloropropene	<18.5	ug/L	400	18.5	100		12/24/14 20:11	10061-02-6	
Diethyl ether (Ethyl ether)	<14.1	ug/L	400	14.1	100		12/24/14 20:11	60-29-7	
Ethylbenzene	112	ug/L	100	16.5	100		12/24/14 20:11	100-41-4	
Hexachloro-1,3-butadiene	<50.0	ug/L	100	50.0	100		12/24/14 20:11	87-68-3	
Isopropylbenzene (Cumene)	<50.0	ug/L	100	50.0	100		12/24/14 20:11	98-82-8	
p-Isopropyltoluene	<50.0	ug/L	100	50.0	100		12/24/14 20:11	99-87-6	
Methylene Chloride	<200	ug/L	400	200	100		12/24/14 20:11	75-09-2	L2
4-Methyl-2-pentanone (MIBK)	<250	ug/L	500	250	100		12/24/14 20:11	108-10-1	
Methyl-tert-butyl ether	<16.9	ug/L	100	16.9	100		12/24/14 20:11	1634-04-4	
Naphthalene	<200	ug/L	400	200	100		12/24/14 20:11	91-20-3	L2
n-Propylbenzene	<50.0	ug/L	100	50.0	100		12/24/14 20:11	103-65-1	
Styrene	<6.9	ug/L	100	6.9	100		12/24/14 20:11	100-42-5	
1,1,1,2-Tetrachloroethane	<50.0	ug/L	100	50.0	100		12/24/14 20:11	630-20-6	
1,1,2,2-Tetrachloroethane	<50.0	ug/L	100	50.0	100		12/24/14 20:11	79-34-5	
Tetrachloroethene	46.9J	ug/L	100	15.7	100		12/24/14 20:11	127-18-4	B
Tetrahydrofuran	<199	ug/L	1000	199	100		12/24/14 20:11	109-99-9	
Toluene	33.9J	ug/L	100	11.0	100		12/24/14 20:11	108-88-3	
1,2,3-Trichlorobenzene	<50.0	ug/L	100	50.0	100		12/24/14 20:11	87-61-6	
1,2,4-Trichlorobenzene	<50.0	ug/L	100	50.0	100		12/24/14 20:11	120-82-1	
1,1,1-Trichloroethane	<26.4	ug/L	100	26.4	100		12/24/14 20:11	71-55-6	
1,1,2-Trichloroethane	<13.6	ug/L	100	13.6	100		12/24/14 20:11	79-00-5	
Trichloroethene	<9.1	ug/L	40.0	9.1	100		12/24/14 20:11	79-01-6	
Trichlorofluoromethane	<21.6	ug/L	100	21.6	100		12/24/14 20:11	75-69-4	
1,2,3-Trichloropropane	<122	ug/L	400	122	100		12/24/14 20:11	96-18-4	L2
1,1,2-Trichlorotrifluoroethane	<50.0	ug/L	100	50.0	100		12/24/14 20:11	76-13-1	
1,2,4-Trimethylbenzene	<50.0	ug/L	100	50.0	100		12/24/14 20:11	95-63-6	
1,3,5-Trimethylbenzene	<50.0	ug/L	100	50.0	100		12/24/14 20:11	108-67-8	
Vinyl chloride	<10.2	ug/L	40.0	10.2	100		12/24/14 20:11	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-20 **Lab ID: 10292044011** Collected: 12/15/14 12:20 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Xylene (Total)	<40.4	ug/L	300	40.4	100		12/24/14 20:11	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	98 %.		75-125		100		12/24/14 20:11	17060-07-0	P2
Toluene-d8 (S)	102 %.		75-125		100		12/24/14 20:11	2037-26-5	
4-Bromofluorobenzene (S)	102 %.		75-125		100		12/24/14 20:11	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP
Pace Project No.: 10292044

Sample: MW-21 **Lab ID: 10292044012** Collected: 12/16/14 10:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI									
Analytical Method: EPA 8270 by HVI					Preparation Method: EPA 3510				
Acenaphthene	0.035J	ug/L	0.040	0.0046	1	12/19/14 18:19	12/30/14 21:43	83-32-9	
Acenaphthylene	<0.0021	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 21:43	208-96-8	
Anthracene	<0.0024	ug/L	0.040	0.0024	1	12/19/14 18:19	12/30/14 21:43	120-12-7	
Benzo(a)anthracene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 21:43	56-55-3	
Benzo(a)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 21:43	50-32-8	
Benzo(b)fluoranthene	<0.0022	ug/L	0.040	0.0022	1	12/19/14 18:19	12/30/14 21:43	205-99-2	
Benzo(e)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 21:43	192-97-2	
Benzo(g,h,i)perylene	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 21:43	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 21:43	207-08-9	
2-Chloronaphthalene	<0.0029	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 21:43	91-58-7	
Chrysene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 21:43	218-01-9	
Dibenz(a,h)anthracene	<0.0044	ug/L	0.040	0.0044	1	12/19/14 18:19	12/30/14 21:43	53-70-3	
Dibenzofuran	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 21:43	132-64-9	
Fluoranthene	<0.0031	ug/L	0.040	0.0031	1	12/19/14 18:19	12/30/14 21:43	206-44-0	
Fluorene	0.0050J	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 21:43	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0023	ug/L	0.040	0.0023	1	12/19/14 18:19	12/30/14 21:43	193-39-5	
1-Methylnaphthalene	0.037J	ug/L	0.040	0.0045	1	12/19/14 18:19	12/30/14 21:43	90-12-0	
2-Methylnaphthalene	<0.0081	ug/L	0.040	0.0081	1	12/19/14 18:19	12/30/14 21:43	91-57-6	
Naphthalene	<0.014	ug/L	0.16	0.014	1	12/19/14 18:19	12/30/14 21:43	91-20-3	
Phenanthrene	<0.0029	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 21:43	85-01-8	
Pyrene	<0.0073	ug/L	0.040	0.0073	1	12/19/14 18:19	12/30/14 21:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66 %.		37-125		1	12/19/14 18:19	12/30/14 21:43	321-60-8	
p-Terphenyl-d14 (S)	81 %.		43-125		1	12/19/14 18:19	12/30/14 21:43	1718-51-0	
8260 VOC									
Analytical Method: EPA 8260									
Acetone	<10.0	ug/L	20.0	10.0	1		12/30/14 15:53	67-64-1	
Allyl chloride	<0.45	ug/L	4.0	0.45	1		12/30/14 15:53	107-05-1	
Benzene	<0.15	ug/L	1.0	0.15	1		12/30/14 15:53	71-43-2	
Bromobenzene	<0.13	ug/L	1.0	0.13	1		12/30/14 15:53	108-86-1	
Bromochloromethane	<0.12	ug/L	1.0	0.12	1		12/30/14 15:53	74-97-5	
Bromodichloromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 15:53	75-27-4	
Bromoform	<2.0	ug/L	4.0	2.0	1		12/30/14 15:53	75-25-2	
Bromomethane	<2.0	ug/L	10.0	2.0	1		12/30/14 15:53	74-83-9	
2-Butanone (MEK)	<2.5	ug/L	5.0	2.5	1		12/30/14 15:53	78-93-3	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	104-51-8	
sec-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	135-98-8	
tert-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	98-06-6	
Carbon tetrachloride	<0.16	ug/L	1.0	0.16	1		12/30/14 15:53	56-23-5	
Chlorobenzene	<0.066	ug/L	1.0	0.066	1		12/30/14 15:53	108-90-7	
Chloroethane	<0.24	ug/L	1.0	0.24	1		12/30/14 15:53	75-00-3	
Chloroform	<0.16	ug/L	1.0	0.16	1		12/30/14 15:53	67-66-3	
Chloromethane	<0.34	ug/L	4.0	0.34	1		12/30/14 15:53	74-87-3	
2-Chlorotoluene	<0.14	ug/L	1.0	0.14	1		12/30/14 15:53	95-49-8	
4-Chlorotoluene	<0.083	ug/L	1.0	0.083	1		12/30/14 15:53	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0	ug/L	4.0	2.0	1		12/30/14 15:53	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-21 Lab ID: 10292044012 Collected: 12/16/14 10:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC Analytical Method: EPA 8260									
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	124-48-1	
1,2-Dibromoethane (EDB)	<0.15	ug/L	1.0	0.15	1		12/30/14 15:53	106-93-4	
Dibromomethane	<0.18	ug/L	4.0	0.18	1		12/30/14 15:53	74-95-3	
1,2-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/30/14 15:53	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	4.0	0.50	1		12/30/14 15:53	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		12/30/14 15:53	75-34-3	
1,2-Dichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 15:53	107-06-2	
1,1-Dichloroethene	<0.20	ug/L	1.0	0.20	1		12/30/14 15:53	75-35-4	
cis-1,2-Dichloroethene	<0.13	ug/L	1.0	0.13	1		12/30/14 15:53	156-59-2	
trans-1,2-Dichloroethene	<0.23	ug/L	1.0	0.23	1		12/30/14 15:53	156-60-5	
Dichlorofluoromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 15:53	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	4.0	0.14	1		12/30/14 15:53	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	142-28-9	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/30/14 15:53	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	563-58-6	
cis-1,3-Dichloropropene	<0.13	ug/L	4.0	0.13	1		12/30/14 15:53	10061-01-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/30/14 15:53	10061-02-6	
Diethyl ether (Ethyl ether)	<0.14	ug/L	4.0	0.14	1		12/30/14 15:53	60-29-7	
Ethylbenzene	<0.16	ug/L	1.0	0.16	1		12/30/14 15:53	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	99-87-6	
Methylene Chloride	<2.0	ug/L	4.0	2.0	1		12/30/14 15:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	<2.5	ug/L	5.0	2.5	1		12/30/14 15:53	108-10-1	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/30/14 15:53	1634-04-4	
Naphthalene	<2.0	ug/L	4.0	2.0	1		12/30/14 15:53	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	103-65-1	
Styrene	<0.063	ug/L	1.0	0.063	1		12/30/14 15:53	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	79-34-5	
Tetrachloroethene	<0.16	ug/L	1.0	0.16	1		12/30/14 15:53	127-18-4	
Tetrahydrofuran	<2.0	ug/L	10.0	2.0	1		12/30/14 15:53	109-99-9	L3
Toluene	<0.11	ug/L	1.0	0.11	1		12/30/14 15:53	108-88-3	
1,2,3-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/L	1.0	0.26	1		12/30/14 15:53	71-55-6	
1,1,2-Trichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 15:53	79-00-5	
Trichloroethene	<0.091	ug/L	0.40	0.091	1		12/30/14 15:53	79-01-6	
Trichlorofluoromethane	<0.22	ug/L	1.0	0.22	1		12/30/14 15:53	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	4.0	1.2	1		12/30/14 15:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	76-13-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 15:53	108-67-8	
Vinyl chloride	<0.20	ug/L	0.40	0.20	1		12/30/14 15:53	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-21 **Lab ID: 10292044012** Collected: 12/16/14 10:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Xylene (Total)	<0.40	ug/L	3.0	0.40	1		12/30/14 15:53	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	80 %.		75-125		1		12/30/14 15:53	17060-07-0	
Toluene-d8 (S)	92 %.		75-125		1		12/30/14 15:53	2037-26-5	
4-Bromofluorobenzene (S)	96 %.		75-125		1		12/30/14 15:53	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-5 **Lab ID: 10292044013** Collected: 12/17/14 08:30 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.29	ug/L	0.040	0.0046	1	12/19/14 18:19	12/30/14 22:09	83-32-9	
Acenaphthylene	<0.0021	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 22:09	208-96-8	
Anthracene	<0.0024	ug/L	0.040	0.0024	1	12/19/14 18:19	12/30/14 22:09	120-12-7	
Benzo(a)anthracene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 22:09	56-55-3	
Benzo(a)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 22:09	50-32-8	
Benzo(b)fluoranthene	<0.0022	ug/L	0.040	0.0022	1	12/19/14 18:19	12/30/14 22:09	205-99-2	
Benzo(e)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 22:09	192-97-2	
Benzo(g,h,i)perylene	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 22:09	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 22:09	207-08-9	
2-Chloronaphthalene	0.031J	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 22:09	91-58-7	
Chrysene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 22:09	218-01-9	
Dibenz(a,h)anthracene	<0.0044	ug/L	0.040	0.0044	1	12/19/14 18:19	12/30/14 22:09	53-70-3	
Dibenzofuran	0.061	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 22:09	132-64-9	
Fluoranthene	0.013J	ug/L	0.040	0.0031	1	12/19/14 18:19	12/30/14 22:09	206-44-0	
Fluorene	0.12	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 22:09	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0023	ug/L	0.040	0.0023	1	12/19/14 18:19	12/30/14 22:09	193-39-5	
1-Methylnaphthalene	0.090	ug/L	0.040	0.0045	1	12/19/14 18:19	12/30/14 22:09	90-12-0	
2-Methylnaphthalene	<0.0081	ug/L	0.040	0.0081	1	12/19/14 18:19	12/30/14 22:09	91-57-6	
Naphthalene	0.59	ug/L	0.16	0.014	1	12/19/14 18:19	12/30/14 22:09	91-20-3	
Phenanthrene	0.034J	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 22:09	85-01-8	
Pyrene	0.013J	ug/L	0.040	0.0073	1	12/19/14 18:19	12/30/14 22:09	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65 %.		37-125		1	12/19/14 18:19	12/30/14 22:09	321-60-8	
p-Terphenyl-d14 (S)	78 %.		43-125		1	12/19/14 18:19	12/30/14 22:09	1718-51-0	
8260 VOC									
Analytical Method: EPA 8260									
Acetone	<10.0	ug/L	20.0	10.0	1		12/31/14 18:11	67-64-1	
Allyl chloride	<0.45	ug/L	4.0	0.45	1		12/31/14 18:11	107-05-1	
Benzene	0.30J	ug/L	1.0	0.15	1		12/31/14 18:11	71-43-2	
Bromobenzene	<0.13	ug/L	1.0	0.13	1		12/31/14 18:11	108-86-1	
Bromochloromethane	<0.12	ug/L	1.0	0.12	1		12/31/14 18:11	74-97-5	
Bromodichloromethane	<0.20	ug/L	1.0	0.20	1		12/31/14 18:11	75-27-4	
Bromoform	<2.0	ug/L	4.0	2.0	1		12/31/14 18:11	75-25-2	
Bromomethane	<2.0	ug/L	10.0	2.0	1		12/31/14 18:11	74-83-9	
2-Butanone (MEK)	<2.5	ug/L	5.0	2.5	1		12/31/14 18:11	78-93-3	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	104-51-8	
sec-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	135-98-8	
tert-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	98-06-6	
Carbon tetrachloride	<0.16	ug/L	1.0	0.16	1		12/31/14 18:11	56-23-5	
Chlorobenzene	<0.066	ug/L	1.0	0.066	1		12/31/14 18:11	108-90-7	
Chloroethane	<0.24	ug/L	1.0	0.24	1		12/31/14 18:11	75-00-3	
Chloroform	<0.16	ug/L	1.0	0.16	1		12/31/14 18:11	67-66-3	
Chloromethane	<0.34	ug/L	4.0	0.34	1		12/31/14 18:11	74-87-3	
2-Chlorotoluene	<0.14	ug/L	1.0	0.14	1		12/31/14 18:11	95-49-8	
4-Chlorotoluene	<0.083	ug/L	1.0	0.083	1		12/31/14 18:11	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0	ug/L	4.0	2.0	1		12/31/14 18:11	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-5 Lab ID: 10292044013 Collected: 12/17/14 08:30 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC									
Analytical Method: EPA 8260									
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	124-48-1	
1,2-Dibromoethane (EDB)	<0.15	ug/L	1.0	0.15	1		12/31/14 18:11	106-93-4	
Dibromomethane	<0.18	ug/L	4.0	0.18	1		12/31/14 18:11	74-95-3	
1,2-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/31/14 18:11	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	4.0	0.50	1		12/31/14 18:11	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		12/31/14 18:11	75-34-3	
1,2-Dichloroethane	<0.13	ug/L	1.0	0.13	1		12/31/14 18:11	107-06-2	
1,1-Dichloroethene	<0.20	ug/L	1.0	0.20	1		12/31/14 18:11	75-35-4	
cis-1,2-Dichloroethene	<0.13	ug/L	1.0	0.13	1		12/31/14 18:11	156-59-2	
trans-1,2-Dichloroethene	<0.23	ug/L	1.0	0.23	1		12/31/14 18:11	156-60-5	
Dichlorofluoromethane	<0.20	ug/L	1.0	0.20	1		12/31/14 18:11	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	4.0	0.14	1		12/31/14 18:11	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	142-28-9	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/31/14 18:11	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	563-58-6	
cis-1,3-Dichloropropene	<0.13	ug/L	4.0	0.13	1		12/31/14 18:11	10061-01-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/31/14 18:11	10061-02-6	
Diethyl ether (Ethyl ether)	<0.14	ug/L	4.0	0.14	1		12/31/14 18:11	60-29-7	
Ethylbenzene	<0.16	ug/L	1.0	0.16	1		12/31/14 18:11	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	99-87-6	
Methylene Chloride	<2.0	ug/L	4.0	2.0	1		12/31/14 18:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	<2.5	ug/L	5.0	2.5	1		12/31/14 18:11	108-10-1	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/31/14 18:11	1634-04-4	
Naphthalene	<2.0	ug/L	4.0	2.0	1		12/31/14 18:11	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	103-65-1	
Styrene	<0.063	ug/L	1.0	0.063	1		12/31/14 18:11	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	79-34-5	
Tetrachloroethene	<0.16	ug/L	1.0	0.16	1		12/31/14 18:11	127-18-4	
Tetrahydrofuran	<2.0	ug/L	10.0	2.0	1		12/31/14 18:11	109-99-9	
Toluene	<0.11	ug/L	1.0	0.11	1		12/31/14 18:11	108-88-3	
1,2,3-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/L	1.0	0.26	1		12/31/14 18:11	71-55-6	
1,1,2-Trichloroethane	<0.13	ug/L	1.0	0.13	1		12/31/14 18:11	79-00-5	
Trichloroethene	<0.091	ug/L	0.40	0.091	1		12/31/14 18:11	79-01-6	
Trichlorofluoromethane	<0.22	ug/L	1.0	0.22	1		12/31/14 18:11	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	4.0	1.2	1		12/31/14 18:11	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	76-13-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:11	108-67-8	
Vinyl chloride	<0.20	ug/L	0.40	0.20	1		12/31/14 18:11	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP
Pace Project No.: 10292044

Sample: MW-5 **Lab ID: 10292044013** Collected: 12/17/14 08:30 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Xylene (Total)	<0.40	ug/L	3.0	0.40	1		12/31/14 18:11	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	85 %.		75-125		1		12/31/14 18:11	17060-07-0	
Toluene-d8 (S)	89 %.		75-125		1		12/31/14 18:11	2037-26-5	
4-Bromofluorobenzene (S)	92 %.		75-125		1		12/31/14 18:11	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-5D **Lab ID:** 10292044014 Collected: 12/17/14 08:30 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	0.29	ug/L	0.040	0.0046	1	12/19/14 18:19	12/30/14 22:34	83-32-9	
Acenaphthylene	<0.0021	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 22:34	208-96-8	
Anthracene	0.011J	ug/L	0.040	0.0024	1	12/19/14 18:19	12/30/14 22:34	120-12-7	
Benzo(a)anthracene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 22:34	56-55-3	
Benzo(a)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 22:34	50-32-8	
Benzo(b)fluoranthene	<0.0022	ug/L	0.040	0.0022	1	12/19/14 18:19	12/30/14 22:34	205-99-2	
Benzo(e)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/30/14 22:34	192-97-2	
Benzo(g,h,i)perylene	<0.0025	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 22:34	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 22:34	207-08-9	
2-Chloronaphthalene	0.032J	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 22:34	91-58-7	
Chrysene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/30/14 22:34	218-01-9	
Dibenz(a,h)anthracene	<0.0044	ug/L	0.040	0.0044	1	12/19/14 18:19	12/30/14 22:34	53-70-3	
Dibenzofuran	0.061	ug/L	0.040	0.0025	1	12/19/14 18:19	12/30/14 22:34	132-64-9	
Fluoranthene	0.013J	ug/L	0.040	0.0031	1	12/19/14 18:19	12/30/14 22:34	206-44-0	
Fluorene	0.11	ug/L	0.040	0.0021	1	12/19/14 18:19	12/30/14 22:34	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0023	ug/L	0.040	0.0023	1	12/19/14 18:19	12/30/14 22:34	193-39-5	
1-Methylnaphthalene	0.090	ug/L	0.040	0.0045	1	12/19/14 18:19	12/30/14 22:34	90-12-0	
2-Methylnaphthalene	0.026J	ug/L	0.040	0.0081	1	12/19/14 18:19	12/30/14 22:34	91-57-6	
Naphthalene	0.62	ug/L	0.16	0.014	1	12/19/14 18:19	12/30/14 22:34	91-20-3	
Phenanthrene	0.034J	ug/L	0.040	0.0029	1	12/19/14 18:19	12/30/14 22:34	85-01-8	
Pyrene	0.013J	ug/L	0.040	0.0073	1	12/19/14 18:19	12/30/14 22:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66 %.		37-125		1	12/19/14 18:19	12/30/14 22:34	321-60-8	
p-Terphenyl-d14 (S)	76 %.		43-125		1	12/19/14 18:19	12/30/14 22:34	1718-51-0	
8260 VOC		Analytical Method: EPA 8260							
Acetone	<10.0	ug/L	20.0	10.0	1		12/31/14 18:26	67-64-1	
Allyl chloride	<0.45	ug/L	4.0	0.45	1		12/31/14 18:26	107-05-1	
Benzene	0.27J	ug/L	1.0	0.15	1		12/31/14 18:26	71-43-2	
Bromobenzene	<0.13	ug/L	1.0	0.13	1		12/31/14 18:26	108-86-1	
Bromochloromethane	<0.12	ug/L	1.0	0.12	1		12/31/14 18:26	74-97-5	
Bromodichloromethane	<0.20	ug/L	1.0	0.20	1		12/31/14 18:26	75-27-4	
Bromoform	<2.0	ug/L	4.0	2.0	1		12/31/14 18:26	75-25-2	
Bromomethane	<2.0	ug/L	10.0	2.0	1		12/31/14 18:26	74-83-9	
2-Butanone (MEK)	<2.5	ug/L	5.0	2.5	1		12/31/14 18:26	78-93-3	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	104-51-8	
sec-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	135-98-8	
tert-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	98-06-6	
Carbon tetrachloride	<0.16	ug/L	1.0	0.16	1		12/31/14 18:26	56-23-5	
Chlorobenzene	<0.066	ug/L	1.0	0.066	1		12/31/14 18:26	108-90-7	
Chloroethane	<0.24	ug/L	1.0	0.24	1		12/31/14 18:26	75-00-3	
Chloroform	<0.16	ug/L	1.0	0.16	1		12/31/14 18:26	67-66-3	
Chloromethane	<0.34	ug/L	4.0	0.34	1		12/31/14 18:26	74-87-3	
2-Chlorotoluene	<0.14	ug/L	1.0	0.14	1		12/31/14 18:26	95-49-8	
4-Chlorotoluene	<0.083	ug/L	1.0	0.083	1		12/31/14 18:26	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0	ug/L	4.0	2.0	1		12/31/14 18:26	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-5D Lab ID: 10292044014 Collected: 12/17/14 08:30 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	124-48-1	
1,2-Dibromoethane (EDB)	<0.15	ug/L	1.0	0.15	1		12/31/14 18:26	106-93-4	
Dibromomethane	<0.18	ug/L	4.0	0.18	1		12/31/14 18:26	74-95-3	
1,2-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/31/14 18:26	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	4.0	0.50	1		12/31/14 18:26	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		12/31/14 18:26	75-34-3	
1,2-Dichloroethane	<0.13	ug/L	1.0	0.13	1		12/31/14 18:26	107-06-2	
1,1-Dichloroethene	<0.20	ug/L	1.0	0.20	1		12/31/14 18:26	75-35-4	
cis-1,2-Dichloroethene	<0.13	ug/L	1.0	0.13	1		12/31/14 18:26	156-59-2	
trans-1,2-Dichloroethene	<0.23	ug/L	1.0	0.23	1		12/31/14 18:26	156-60-5	
Dichlorofluoromethane	<0.20	ug/L	1.0	0.20	1		12/31/14 18:26	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	4.0	0.14	1		12/31/14 18:26	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	142-28-9	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/31/14 18:26	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	563-58-6	
cis-1,3-Dichloropropene	<0.13	ug/L	4.0	0.13	1		12/31/14 18:26	10061-01-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/31/14 18:26	10061-02-6	
Diethyl ether (Ethyl ether)	<0.14	ug/L	4.0	0.14	1		12/31/14 18:26	60-29-7	
Ethylbenzene	<0.16	ug/L	1.0	0.16	1		12/31/14 18:26	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	99-87-6	
Methylene Chloride	<2.0	ug/L	4.0	2.0	1		12/31/14 18:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	<2.5	ug/L	5.0	2.5	1		12/31/14 18:26	108-10-1	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/31/14 18:26	1634-04-4	
Naphthalene	<2.0	ug/L	4.0	2.0	1		12/31/14 18:26	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	103-65-1	
Styrene	<0.063	ug/L	1.0	0.063	1		12/31/14 18:26	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	79-34-5	
Tetrachloroethene	<0.16	ug/L	1.0	0.16	1		12/31/14 18:26	127-18-4	
Tetrahydrofuran	<2.0	ug/L	10.0	2.0	1		12/31/14 18:26	109-99-9	
Toluene	<0.11	ug/L	1.0	0.11	1		12/31/14 18:26	108-88-3	
1,2,3-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/L	1.0	0.26	1		12/31/14 18:26	71-55-6	
1,1,2-Trichloroethane	<0.13	ug/L	1.0	0.13	1		12/31/14 18:26	79-00-5	
Trichloroethene	<0.091	ug/L	0.40	0.091	1		12/31/14 18:26	79-01-6	
Trichlorofluoromethane	<0.22	ug/L	1.0	0.22	1		12/31/14 18:26	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	4.0	1.2	1		12/31/14 18:26	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	76-13-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 18:26	108-67-8	
Vinyl chloride	<0.20	ug/L	0.40	0.20	1		12/31/14 18:26	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-5D **Lab ID: 10292044014** Collected: 12/17/14 08:30 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC									
Analytical Method: EPA 8260									
Xylene (Total)	<0.40	ug/L	3.0	0.40	1		12/31/14 18:26	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	83 %.		75-125		1		12/31/14 18:26	17060-07-0	
Toluene-d8 (S)	93 %.		75-125		1		12/31/14 18:26	2037-26-5	
4-Bromofluorobenzene (S)	91 %.		75-125		1		12/31/14 18:26	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-7 Lab ID: **10292044015** Collected: 12/17/14 10:00 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	2.3	ug/L	0.040	0.0046	1	12/19/14 18:19	12/31/14 06:27	83-32-9	
Acenaphthylene	0.70	ug/L	0.040	0.0021	1	12/19/14 18:19	12/31/14 06:27	208-96-8	
Anthracene	1.4	ug/L	0.040	0.0024	1	12/19/14 18:19	12/31/14 06:27	120-12-7	
Benzo(a)anthracene	0.039J	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 06:27	56-55-3	
Benzo(a)pyrene	0.048	ug/L	0.040	0.0030	1	12/19/14 18:19	12/31/14 06:27	50-32-8	
Benzo(b)fluoranthene	<0.0022	ug/L	0.040	0.0022	1	12/19/14 18:19	12/31/14 06:27	205-99-2	
Benzo(e)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/19/14 18:19	12/31/14 06:27	192-97-2	
Benzo(g,h,i)perylene	0.032J	ug/L	0.040	0.0025	1	12/19/14 18:19	12/31/14 06:27	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 06:27	207-08-9	
2-Chloronaphthalene	<0.0029	ug/L	0.040	0.0029	1	12/19/14 18:19	12/31/14 06:27	91-58-7	
Chrysene	0.035J	ug/L	0.040	0.020	1	12/19/14 18:19	12/31/14 06:27	218-01-9	
Dibenz(a,h)anthracene	<0.0044	ug/L	0.040	0.0044	1	12/19/14 18:19	12/31/14 06:27	53-70-3	
Dibenzofuran	0.052	ug/L	0.040	0.0025	1	12/19/14 18:19	12/31/14 06:27	132-64-9	
Fluoranthene	0.53	ug/L	0.040	0.0031	1	12/19/14 18:19	12/31/14 06:27	206-44-0	
Fluorene	1.2	ug/L	0.040	0.0021	1	12/19/14 18:19	12/31/14 06:27	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0023	ug/L	0.040	0.0023	1	12/19/14 18:19	12/31/14 06:27	193-39-5	
1-Methylnaphthalene	2.5	ug/L	0.040	0.0045	1	12/19/14 18:19	12/31/14 06:27	90-12-0	
2-Methylnaphthalene	3.0	ug/L	0.040	0.0081	1	12/19/14 18:19	12/31/14 06:27	91-57-6	
Naphthalene	297	ug/L	80.0	7.0	500	12/19/14 18:19	12/31/14 06:53	91-20-3	
Phenanthrene	1.7	ug/L	0.040	0.0029	1	12/19/14 18:19	12/31/14 06:27	85-01-8	
Pyrene	0.76	ug/L	0.040	0.0073	1	12/19/14 18:19	12/31/14 06:27	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71 %.		37-125		1	12/19/14 18:19	12/31/14 06:27	321-60-8	
p-Terphenyl-d14 (S)	79 %.		43-125		1	12/19/14 18:19	12/31/14 06:27	1718-51-0	
8260 VOC Analytical Method: EPA 8260									
Acetone	<1000	ug/L	2000	1000	100		12/31/14 19:24	67-64-1	
Allyl chloride	<44.6	ug/L	400	44.6	100		12/31/14 19:24	107-05-1	
Benzene	78000	ug/L	100	15.0	100		12/31/14 19:24	71-43-2	E,P2
Bromobenzene	<13.2	ug/L	100	13.2	100		12/31/14 19:24	108-86-1	
Bromochloromethane	<11.5	ug/L	100	11.5	100		12/31/14 19:24	74-97-5	
Bromodichloromethane	<20.2	ug/L	100	20.2	100		12/31/14 19:24	75-27-4	
Bromoform	<200	ug/L	400	200	100		12/31/14 19:24	75-25-2	
Bromomethane	<200	ug/L	1000	200	100		12/31/14 19:24	74-83-9	
2-Butanone (MEK)	<250	ug/L	500	250	100		12/31/14 19:24	78-93-3	
n-Butylbenzene	<50.0	ug/L	100	50.0	100		12/31/14 19:24	104-51-8	
sec-Butylbenzene	<50.0	ug/L	100	50.0	100		12/31/14 19:24	135-98-8	
tert-Butylbenzene	<50.0	ug/L	100	50.0	100		12/31/14 19:24	98-06-6	
Carbon tetrachloride	<15.9	ug/L	100	15.9	100		12/31/14 19:24	56-23-5	
Chlorobenzene	<6.6	ug/L	100	6.6	100		12/31/14 19:24	108-90-7	
Chloroethane	<24.1	ug/L	100	24.1	100		12/31/14 19:24	75-00-3	
Chloroform	<16.1	ug/L	100	16.1	100		12/31/14 19:24	67-66-3	
Chloromethane	<34.1	ug/L	400	34.1	100		12/31/14 19:24	74-87-3	
2-Chlorotoluene	<13.8	ug/L	100	13.8	100		12/31/14 19:24	95-49-8	
4-Chlorotoluene	<8.3	ug/L	100	8.3	100		12/31/14 19:24	106-43-4	
1,2-Dibromo-3-chloropropane	<200	ug/L	400	200	100		12/31/14 19:24	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-7 Lab ID: 10292044015 Collected: 12/17/14 10:00 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC									
Analytical Method: EPA 8260									
Dibromochloromethane	<50.0	ug/L	100	50.0	100		12/31/14 19:24	124-48-1	
1,2-Dibromoethane (EDB)	<14.8	ug/L	100	14.8	100		12/31/14 19:24	106-93-4	
Dibromomethane	<18.5	ug/L	400	18.5	100		12/31/14 19:24	74-95-3	
1,2-Dichlorobenzene	<16.0	ug/L	100	16.0	100		12/31/14 19:24	95-50-1	
1,3-Dichlorobenzene	<50.0	ug/L	100	50.0	100		12/31/14 19:24	541-73-1	
1,4-Dichlorobenzene	<50.0	ug/L	100	50.0	100		12/31/14 19:24	106-46-7	
Dichlorodifluoromethane	<50.0	ug/L	400	50.0	100		12/31/14 19:24	75-71-8	
1,1-Dichloroethane	<15.9	ug/L	100	15.9	100		12/31/14 19:24	75-34-3	
1,2-Dichloroethane	<13.1	ug/L	100	13.1	100		12/31/14 19:24	107-06-2	
1,1-Dichloroethene	<19.9	ug/L	100	19.9	100		12/31/14 19:24	75-35-4	
cis-1,2-Dichloroethene	<13.3	ug/L	100	13.3	100		12/31/14 19:24	156-59-2	
trans-1,2-Dichloroethene	<23.1	ug/L	100	23.1	100		12/31/14 19:24	156-60-5	
Dichlorofluoromethane	<20.2	ug/L	100	20.2	100		12/31/14 19:24	75-43-4	
1,2-Dichloropropane	<14.2	ug/L	400	14.2	100		12/31/14 19:24	78-87-5	
1,3-Dichloropropane	<50.0	ug/L	100	50.0	100		12/31/14 19:24	142-28-9	
2,2-Dichloropropane	<17.4	ug/L	400	17.4	100		12/31/14 19:24	594-20-7	
1,1-Dichloropropene	<50.0	ug/L	100	50.0	100		12/31/14 19:24	563-58-6	
cis-1,3-Dichloropropene	<12.7	ug/L	400	12.7	100		12/31/14 19:24	10061-01-5	
trans-1,3-Dichloropropene	<18.5	ug/L	400	18.5	100		12/31/14 19:24	10061-02-6	
Diethyl ether (Ethyl ether)	<14.1	ug/L	400	14.1	100		12/31/14 19:24	60-29-7	
Ethylbenzene	1730	ug/L	100	16.5	100		12/31/14 19:24	100-41-4	
Hexachloro-1,3-butadiene	<50.0	ug/L	100	50.0	100		12/31/14 19:24	87-68-3	
Isopropylbenzene (Cumene)	<50.0	ug/L	100	50.0	100		12/31/14 19:24	98-82-8	
p-Isopropyltoluene	<50.0	ug/L	100	50.0	100		12/31/14 19:24	99-87-6	
Methylene Chloride	<200	ug/L	400	200	100		12/31/14 19:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	<250	ug/L	500	250	100		12/31/14 19:24	108-10-1	
Methyl-tert-butyl ether	<16.9	ug/L	100	16.9	100		12/31/14 19:24	1634-04-4	
Naphthalene	239J	ug/L	400	200	100		12/31/14 19:24	91-20-3	
n-Propylbenzene	<50.0	ug/L	100	50.0	100		12/31/14 19:24	103-65-1	
Styrene	2100	ug/L	100	6.3	100		12/31/14 19:24	100-42-5	
1,1,1,2-Tetrachloroethane	<50.0	ug/L	100	50.0	100		12/31/14 19:24	630-20-6	
1,1,2,2-Tetrachloroethane	<50.0	ug/L	100	50.0	100		12/31/14 19:24	79-34-5	
Tetrachloroethene	<15.7	ug/L	100	15.7	100		12/31/14 19:24	127-18-4	
Tetrahydrofuran	<199	ug/L	1000	199	100		12/31/14 19:24	109-99-9	
Toluene	65300	ug/L	100	11.0	100		12/31/14 19:24	108-88-3	E,P2
1,2,3-Trichlorobenzene	<50.0	ug/L	100	50.0	100		12/31/14 19:24	87-61-6	
1,2,4-Trichlorobenzene	<50.0	ug/L	100	50.0	100		12/31/14 19:24	120-82-1	
1,1,1-Trichloroethane	<26.4	ug/L	100	26.4	100		12/31/14 19:24	71-55-6	
1,1,2-Trichloroethane	<12.7	ug/L	100	12.7	100		12/31/14 19:24	79-00-5	
Trichloroethene	<9.1	ug/L	40.0	9.1	100		12/31/14 19:24	79-01-6	
Trichlorofluoromethane	<21.6	ug/L	100	21.6	100		12/31/14 19:24	75-69-4	
1,2,3-Trichloropropane	<122	ug/L	400	122	100		12/31/14 19:24	96-18-4	
1,1,2-Trichlorotrifluoroethane	<50.0	ug/L	100	50.0	100		12/31/14 19:24	76-13-1	
1,2,4-Trimethylbenzene	232	ug/L	100	50.0	100		12/31/14 19:24	95-63-6	
1,3,5-Trimethylbenzene	134	ug/L	100	50.0	100		12/31/14 19:24	108-67-8	
Vinyl chloride	<19.5	ug/L	40.0	19.5	100		12/31/14 19:24	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-7 **Lab ID: 10292044015** Collected: 12/17/14 10:00 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Xylene (Total)	11500	ug/L	300	40.4	100		12/31/14 19:24	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	84 %.		75-125		100		12/31/14 19:24	17060-07-0	
Toluene-d8 (S)	92 %.		75-125		100		12/31/14 19:24	2037-26-5	
4-Bromofluorobenzene (S)	94 %.		75-125		100		12/31/14 19:24	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-2 **Lab ID: 10292044016** Collected: 12/17/14 07:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	0.0070J	ug/L	0.040	0.0046	1	12/23/14 16:31	12/31/14 07:44	83-32-9	
Acenaphthylene	<0.0021	ug/L	0.040	0.0021	1	12/23/14 16:31	12/31/14 07:44	208-96-8	
Anthracene	<0.0024	ug/L	0.040	0.0024	1	12/23/14 16:31	12/31/14 07:44	120-12-7	
Benzo(a)anthracene	<0.020	ug/L	0.040	0.020	1	12/23/14 16:31	12/31/14 07:44	56-55-3	
Benzo(a)pyrene	0.0077J	ug/L	0.040	0.0030	1	12/23/14 16:31	12/31/14 07:44	50-32-8	B
Benzo(b)fluoranthene	0.0063J	ug/L	0.040	0.0022	1	12/23/14 16:31	12/31/14 07:44	205-99-2	B
Benzo(e)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/23/14 16:31	12/31/14 07:44	192-97-2	
Benzo(g,h,i)perylene	<0.0025	ug/L	0.040	0.0025	1	12/23/14 16:31	12/31/14 07:44	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.040	0.020	1	12/23/14 16:31	12/31/14 07:44	207-08-9	
2-Chloronaphthalene	<0.0029	ug/L	0.040	0.0029	1	12/23/14 16:31	12/31/14 07:44	91-58-7	
Chrysene	<0.020	ug/L	0.040	0.020	1	12/23/14 16:31	12/31/14 07:44	218-01-9	
Dibenz(a,h)anthracene	<0.0044	ug/L	0.040	0.0044	1	12/23/14 16:31	12/31/14 07:44	53-70-3	
Dibenzofuran	0.0030J	ug/L	0.040	0.0025	1	12/23/14 16:31	12/31/14 07:44	132-64-9	
Fluoranthene	0.0043J	ug/L	0.040	0.0031	1	12/23/14 16:31	12/31/14 07:44	206-44-0	
Fluorene	0.0047J	ug/L	0.040	0.0021	1	12/23/14 16:31	12/31/14 07:44	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0023	ug/L	0.040	0.0023	1	12/23/14 16:31	12/31/14 07:44	193-39-5	
1-Methylnaphthalene	0.0096J	ug/L	0.040	0.0045	1	12/23/14 16:31	12/31/14 07:44	90-12-0	
2-Methylnaphthalene	0.017J	ug/L	0.040	0.0081	1	12/23/14 16:31	12/31/14 07:44	91-57-6	
Naphthalene	0.043J	ug/L	0.16	0.014	1	12/23/14 16:31	12/31/14 07:44	91-20-3	B
Phenanthrene	0.0078J	ug/L	0.040	0.0029	1	12/23/14 16:31	12/31/14 07:44	85-01-8	B
Pyrene	<0.0073	ug/L	0.040	0.0073	1	12/23/14 16:31	12/31/14 07:44	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	47 %.		37-125		1	12/23/14 16:31	12/31/14 07:44	321-60-8	
p-Terphenyl-d14 (S)	50 %.		43-125		1	12/23/14 16:31	12/31/14 07:44	1718-51-0	
8260 VOC		Analytical Method: EPA 8260							
Acetone	<10.0	ug/L	20.0	10.0	1		12/30/14 21:44	67-64-1	
Allyl chloride	<0.45	ug/L	4.0	0.45	1		12/30/14 21:44	107-05-1	
Benzene	0.19J	ug/L	1.0	0.15	1		12/30/14 21:44	71-43-2	
Bromobenzene	<0.13	ug/L	1.0	0.13	1		12/30/14 21:44	108-86-1	
Bromochloromethane	<0.12	ug/L	1.0	0.12	1		12/30/14 21:44	74-97-5	
Bromodichloromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 21:44	75-27-4	
Bromoform	<2.0	ug/L	4.0	2.0	1		12/30/14 21:44	75-25-2	
Bromomethane	<2.0	ug/L	10.0	2.0	1		12/30/14 21:44	74-83-9	
2-Butanone (MEK)	<2.5	ug/L	5.0	2.5	1		12/30/14 21:44	78-93-3	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	104-51-8	
sec-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	135-98-8	
tert-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	98-06-6	
Carbon tetrachloride	<0.16	ug/L	1.0	0.16	1		12/30/14 21:44	56-23-5	
Chlorobenzene	<0.066	ug/L	1.0	0.066	1		12/30/14 21:44	108-90-7	
Chloroethane	<0.24	ug/L	1.0	0.24	1		12/30/14 21:44	75-00-3	
Chloroform	<0.16	ug/L	1.0	0.16	1		12/30/14 21:44	67-66-3	
Chloromethane	<0.34	ug/L	4.0	0.34	1		12/30/14 21:44	74-87-3	
2-Chlorotoluene	<0.14	ug/L	1.0	0.14	1		12/30/14 21:44	95-49-8	
4-Chlorotoluene	<0.083	ug/L	1.0	0.083	1		12/30/14 21:44	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0	ug/L	4.0	2.0	1		12/30/14 21:44	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-2 Lab ID: 10292044016 Collected: 12/17/14 07:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC Analytical Method: EPA 8260									
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	124-48-1	
1,2-Dibromoethane (EDB)	<0.15	ug/L	1.0	0.15	1		12/30/14 21:44	106-93-4	
Dibromomethane	<0.18	ug/L	4.0	0.18	1		12/30/14 21:44	74-95-3	
1,2-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/30/14 21:44	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	4.0	0.50	1		12/30/14 21:44	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		12/30/14 21:44	75-34-3	
1,2-Dichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 21:44	107-06-2	
1,1-Dichloroethene	<0.20	ug/L	1.0	0.20	1		12/30/14 21:44	75-35-4	
cis-1,2-Dichloroethene	<0.13	ug/L	1.0	0.13	1		12/30/14 21:44	156-59-2	
trans-1,2-Dichloroethene	<0.23	ug/L	1.0	0.23	1		12/30/14 21:44	156-60-5	
Dichlorofluoromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 21:44	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	4.0	0.14	1		12/30/14 21:44	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	142-28-9	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/30/14 21:44	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	563-58-6	
cis-1,3-Dichloropropene	<0.13	ug/L	4.0	0.13	1		12/30/14 21:44	10061-01-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/30/14 21:44	10061-02-6	
Diethyl ether (Ethyl ether)	<0.14	ug/L	4.0	0.14	1		12/30/14 21:44	60-29-7	
Ethylbenzene	<0.16	ug/L	1.0	0.16	1		12/30/14 21:44	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	99-87-6	
Methylene Chloride	<2.0	ug/L	4.0	2.0	1		12/30/14 21:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	<2.5	ug/L	5.0	2.5	1		12/30/14 21:44	108-10-1	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/30/14 21:44	1634-04-4	
Naphthalene	<2.0	ug/L	4.0	2.0	1		12/30/14 21:44	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	103-65-1	
Styrene	<0.063	ug/L	1.0	0.063	1		12/30/14 21:44	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	79-34-5	
Tetrachloroethene	<0.16	ug/L	1.0	0.16	1		12/30/14 21:44	127-18-4	
Tetrahydrofuran	<2.0	ug/L	10.0	2.0	1		12/30/14 21:44	109-99-9	
Toluene	0.16J	ug/L	1.0	0.11	1		12/30/14 21:44	108-88-3	
1,2,3-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/L	1.0	0.26	1		12/30/14 21:44	71-55-6	
1,1,2-Trichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 21:44	79-00-5	
Trichloroethene	<0.091	ug/L	0.40	0.091	1		12/30/14 21:44	79-01-6	
Trichlorofluoromethane	<0.22	ug/L	1.0	0.22	1		12/30/14 21:44	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	4.0	1.2	1		12/30/14 21:44	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	76-13-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:44	108-67-8	
Vinyl chloride	<0.20	ug/L	0.40	0.20	1		12/30/14 21:44	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-2 **Lab ID: 10292044016** Collected: 12/17/14 07:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC									
Analytical Method: EPA 8260									
Xylene (Total)	<0.40	ug/L	3.0	0.40	1		12/30/14 21:44	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	85 %.		75-125		1		12/30/14 21:44	17060-07-0	
Toluene-d8 (S)	92 %.		75-125		1		12/30/14 21:44	2037-26-5	
4-Bromofluorobenzene (S)	95 %.		75-125		1		12/30/14 21:44	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-8 **Lab ID: 10292044017** Collected: 12/17/14 10:15 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	30.9	ug/L	0.40	0.046	10	12/23/14 16:31	12/31/14 16:31	83-32-9	
Acenaphthylene	4.5	ug/L	0.040	0.0021	1	12/23/14 16:31	12/31/14 08:09	208-96-8	
Anthracene	3.1	ug/L	0.040	0.0024	1	12/23/14 16:31	12/31/14 08:09	120-12-7	
Benzo(a)anthracene	0.11	ug/L	0.040	0.020	1	12/23/14 16:31	12/31/14 08:09	56-55-3	
Benzo(a)pyrene	0.027J	ug/L	0.040	0.0030	1	12/23/14 16:31	12/31/14 08:09	50-32-8	B
Benzo(b)fluoranthene	0.025J	ug/L	0.040	0.0022	1	12/23/14 16:31	12/31/14 08:09	205-99-2	
Benzo(e)pyrene	0.015J	ug/L	0.040	0.0030	1	12/23/14 16:31	12/31/14 08:09	192-97-2	
Benzo(g,h,i)perylene	0.0070J	ug/L	0.040	0.0025	1	12/23/14 16:31	12/31/14 08:09	191-24-2	B
Benzo(k)fluoranthene	<0.020	ug/L	0.040	0.020	1	12/23/14 16:31	12/31/14 08:09	207-08-9	
2-Chloronaphthalene	<0.0029	ug/L	0.040	0.0029	1	12/23/14 16:31	12/31/14 08:09	91-58-7	
Chrysene	0.10	ug/L	0.040	0.020	1	12/23/14 16:31	12/31/14 08:09	218-01-9	
Dibenz(a,h)anthracene	<0.0044	ug/L	0.040	0.0044	1	12/23/14 16:31	12/31/14 08:09	53-70-3	
Dibenzofuran	0.42	ug/L	0.040	0.0025	1	12/23/14 16:31	12/31/14 08:09	132-64-9	
Fluoranthene	1.8	ug/L	0.040	0.0031	1	12/23/14 16:31	12/31/14 08:09	206-44-0	
Fluorene	11.0	ug/L	0.40	0.021	10	12/23/14 16:31	12/31/14 16:31	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0052J	ug/L	0.040	0.0023	1	12/23/14 16:31	12/31/14 08:09	193-39-5	B
1-Methylnaphthalene	40.3	ug/L	0.40	0.045	10	12/23/14 16:31	12/31/14 16:31	90-12-0	
2-Methylnaphthalene	46.5	ug/L	0.40	0.081	10	12/23/14 16:31	12/31/14 16:31	91-57-6	
Naphthalene	246	ug/L	16.0	1.4	100	12/23/14 16:31	12/31/14 16:56	91-20-3	
Phenanthrene	13.9	ug/L	0.40	0.029	10	12/23/14 16:31	12/31/14 16:31	85-01-8	
Pyrene	2.1	ug/L	0.040	0.0073	1	12/23/14 16:31	12/31/14 08:09	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	46 %.		37-125		1	12/23/14 16:31	12/31/14 08:09	321-60-8	
p-Terphenyl-d14 (S)	52 %.		43-125		1	12/23/14 16:31	12/31/14 08:09	1718-51-0	
8260 VOC		Analytical Method: EPA 8260							
Acetone	<5000	ug/L	10000	5000	500		12/31/14 19:09	67-64-1	
Allyl chloride	<223	ug/L	2000	223	500		12/31/14 19:09	107-05-1	
Benzene	64400	ug/L	500	75.0	500		12/31/14 19:09	71-43-2	
Bromobenzene	<66.0	ug/L	500	66.0	500		12/31/14 19:09	108-86-1	
Bromochloromethane	<57.5	ug/L	500	57.5	500		12/31/14 19:09	74-97-5	
Bromodichloromethane	<101	ug/L	500	101	500		12/31/14 19:09	75-27-4	
Bromoform	<1000	ug/L	2000	1000	500		12/31/14 19:09	75-25-2	
Bromomethane	<1000	ug/L	5000	1000	500		12/31/14 19:09	74-83-9	R1
2-Butanone (MEK)	<1250	ug/L	2500	1250	500		12/31/14 19:09	78-93-3	
n-Butylbenzene	<250	ug/L	500	250	500		12/31/14 19:09	104-51-8	
sec-Butylbenzene	<250	ug/L	500	250	500		12/31/14 19:09	135-98-8	
tert-Butylbenzene	<250	ug/L	500	250	500		12/31/14 19:09	98-06-6	
Carbon tetrachloride	<79.5	ug/L	500	79.5	500		12/31/14 19:09	56-23-5	
Chlorobenzene	<33.0	ug/L	500	33.0	500		12/31/14 19:09	108-90-7	
Chloroethane	<120	ug/L	500	120	500		12/31/14 19:09	75-00-3	
Chloroform	<80.5	ug/L	500	80.5	500		12/31/14 19:09	67-66-3	
Chloromethane	<170	ug/L	2000	170	500		12/31/14 19:09	74-87-3	
2-Chlorotoluene	<69.0	ug/L	500	69.0	500		12/31/14 19:09	95-49-8	
4-Chlorotoluene	<41.5	ug/L	500	41.5	500		12/31/14 19:09	106-43-4	
1,2-Dibromo-3-chloropropane	<1000	ug/L	2000	1000	500		12/31/14 19:09	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-8 **Lab ID: 10292044017** Collected: 12/17/14 10:15 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC Analytical Method: EPA 8260									
Dibromochloromethane	<250	ug/L	500	250	500		12/31/14 19:09	124-48-1	
1,2-Dibromoethane (EDB)	<74.0	ug/L	500	74.0	500		12/31/14 19:09	106-93-4	
Dibromomethane	<92.5	ug/L	2000	92.5	500		12/31/14 19:09	74-95-3	
1,2-Dichlorobenzene	<80.0	ug/L	500	80.0	500		12/31/14 19:09	95-50-1	
1,3-Dichlorobenzene	<250	ug/L	500	250	500		12/31/14 19:09	541-73-1	
1,4-Dichlorobenzene	<250	ug/L	500	250	500		12/31/14 19:09	106-46-7	
Dichlorodifluoromethane	<250	ug/L	2000	250	500		12/31/14 19:09	75-71-8	
1,1-Dichloroethane	<79.5	ug/L	500	79.5	500		12/31/14 19:09	75-34-3	
1,2-Dichloroethane	<65.5	ug/L	500	65.5	500		12/31/14 19:09	107-06-2	
1,1-Dichloroethene	<99.5	ug/L	500	99.5	500		12/31/14 19:09	75-35-4	
cis-1,2-Dichloroethene	<66.5	ug/L	500	66.5	500		12/31/14 19:09	156-59-2	
trans-1,2-Dichloroethene	<116	ug/L	500	116	500		12/31/14 19:09	156-60-5	
Dichlorofluoromethane	<101	ug/L	500	101	500		12/31/14 19:09	75-43-4	
1,2-Dichloropropane	<71.0	ug/L	2000	71.0	500		12/31/14 19:09	78-87-5	
1,3-Dichloropropane	<250	ug/L	500	250	500		12/31/14 19:09	142-28-9	
2,2-Dichloropropane	<87.0	ug/L	2000	87.0	500		12/31/14 19:09	594-20-7	
1,1-Dichloropropene	<250	ug/L	500	250	500		12/31/14 19:09	563-58-6	
cis-1,3-Dichloropropene	<63.5	ug/L	2000	63.5	500		12/31/14 19:09	10061-01-5	
trans-1,3-Dichloropropene	<92.5	ug/L	2000	92.5	500		12/31/14 19:09	10061-02-6	
Diethyl ether (Ethyl ether)	<70.5	ug/L	2000	70.5	500		12/31/14 19:09	60-29-7	
Ethylbenzene	811	ug/L	500	82.5	500		12/31/14 19:09	100-41-4	
Hexachloro-1,3-butadiene	<250	ug/L	500	250	500		12/31/14 19:09	87-68-3	
Isopropylbenzene (Cumene)	<250	ug/L	500	250	500		12/31/14 19:09	98-82-8	
p-Isopropyltoluene	<250	ug/L	500	250	500		12/31/14 19:09	99-87-6	
Methylene Chloride	<1000	ug/L	2000	1000	500		12/31/14 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1250	ug/L	2500	1250	500		12/31/14 19:09	108-10-1	
Methyl-tert-butyl ether	<84.5	ug/L	500	84.5	500		12/31/14 19:09	1634-04-4	
Naphthalene	<1000	ug/L	2000	1000	500		12/31/14 19:09	91-20-3	
n-Propylbenzene	<250	ug/L	500	250	500		12/31/14 19:09	103-65-1	
Styrene	3590	ug/L	500	31.5	500		12/31/14 19:09	100-42-5	
1,1,1,2-Tetrachloroethane	<250	ug/L	500	250	500		12/31/14 19:09	630-20-6	
1,1,2,2-Tetrachloroethane	<250	ug/L	500	250	500		12/31/14 19:09	79-34-5	
Tetrachloroethene	<78.5	ug/L	500	78.5	500		12/31/14 19:09	127-18-4	
Tetrahydrofuran	<995	ug/L	5000	995	500		12/31/14 19:09	109-99-9	
Toluene	50800	ug/L	500	55.0	500		12/31/14 19:09	108-88-3	
1,2,3-Trichlorobenzene	<250	ug/L	500	250	500		12/31/14 19:09	87-61-6	
1,2,4-Trichlorobenzene	<250	ug/L	500	250	500		12/31/14 19:09	120-82-1	
1,1,1-Trichloroethane	<132	ug/L	500	132	500		12/31/14 19:09	71-55-6	
1,1,2-Trichloroethane	<63.5	ug/L	500	63.5	500		12/31/14 19:09	79-00-5	
Trichloroethene	<45.5	ug/L	200	45.5	500		12/31/14 19:09	79-01-6	
Trichlorofluoromethane	<108	ug/L	500	108	500		12/31/14 19:09	75-69-4	
1,2,3-Trichloropropane	<610	ug/L	2000	610	500		12/31/14 19:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	<250	ug/L	500	250	500		12/31/14 19:09	76-13-1	
1,2,4-Trimethylbenzene	494J	ug/L	500	250	500		12/31/14 19:09	95-63-6	
1,3,5-Trimethylbenzene	286J	ug/L	500	250	500		12/31/14 19:09	108-67-8	
Vinyl chloride	<97.5	ug/L	200	97.5	500		12/31/14 19:09	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-8 **Lab ID: 10292044017** Collected: 12/17/14 10:15 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Xylene (Total)	15400	ug/L	1500	202	500		12/31/14 19:09	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	84 %.		75-125		500		12/31/14 19:09	17060-07-0	
Toluene-d8 (S)	91 %.		75-125		500		12/31/14 19:09	2037-26-5	
4-Bromofluorobenzene (S)	94 %.		75-125		500		12/31/14 19:09	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-9 **Lab ID: 10292044018** Collected: 12/17/14 11:15 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	106	ug/L	4.0	0.46	100	12/23/14 16:31	12/31/14 17:47	83-32-9	
Acenaphthylene	1.9	ug/L	0.040	0.0021	1	12/23/14 16:31	12/31/14 08:35	208-96-8	
Anthracene	9.4	ug/L	0.40	0.024	10	12/23/14 16:31	12/31/14 17:21	120-12-7	
Benzo(a)anthracene	0.36	ug/L	0.040	0.020	1	12/23/14 16:31	12/31/14 08:35	56-55-3	
Benzo(a)pyrene	0.17	ug/L	0.040	0.0030	1	12/23/14 16:31	12/31/14 08:35	50-32-8	
Benzo(b)fluoranthene	0.14	ug/L	0.040	0.0022	1	12/23/14 16:31	12/31/14 08:35	205-99-2	
Benzo(e)pyrene	0.090	ug/L	0.040	0.0030	1	12/23/14 16:31	12/31/14 08:35	192-97-2	
Benzo(g,h,i)perylene	0.055	ug/L	0.040	0.0025	1	12/23/14 16:31	12/31/14 08:35	191-24-2	
Benzo(k)fluoranthene	0.044	ug/L	0.040	0.020	1	12/23/14 16:31	12/31/14 08:35	207-08-9	
2-Chloronaphthalene	0.14	ug/L	0.040	0.0029	1	12/23/14 16:31	12/31/14 08:35	91-58-7	
Chrysene	0.35	ug/L	0.040	0.020	1	12/23/14 16:31	12/31/14 08:35	218-01-9	
Dibenz(a,h)anthracene	0.014J	ug/L	0.040	0.0044	1	12/23/14 16:31	12/31/14 08:35	53-70-3	
Dibenzofuran	0.96	ug/L	0.040	0.0025	1	12/23/14 16:31	12/31/14 08:35	132-64-9	
Fluoranthene	3.1	ug/L	0.040	0.0031	1	12/23/14 16:31	12/31/14 08:35	206-44-0	
Fluorene	26.2	ug/L	0.40	0.021	10	12/23/14 16:31	12/31/14 17:21	86-73-7	
Indeno(1,2,3-cd)pyrene	0.040J	ug/L	0.040	0.0023	1	12/23/14 16:31	12/31/14 08:35	193-39-5	
1-Methylnaphthalene	99.3	ug/L	4.0	0.45	100	12/23/14 16:31	12/31/14 17:47	90-12-0	
2-Methylnaphthalene	146	ug/L	4.0	0.81	100	12/23/14 16:31	12/31/14 17:47	91-57-6	
Naphthalene	465	ug/L	16.0	1.4	100	12/23/14 16:31	12/31/14 17:47	91-20-3	
Phenanthrene	33.5	ug/L	0.40	0.029	10	12/23/14 16:31	12/31/14 17:21	85-01-8	
Pyrene	4.0	ug/L	0.040	0.0073	1	12/23/14 16:31	12/31/14 08:35	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	39 %		37-125		1	12/23/14 16:31	12/31/14 08:35	321-60-8	
p-Terphenyl-d14 (S)	46 %		43-125		1	12/23/14 16:31	12/31/14 08:35	1718-51-0	
8260 VOC									
Analytical Method: EPA 8260									
Acetone	<100	ug/L	200	100	10		12/30/14 21:16	67-64-1	
Allyl chloride	<4.5	ug/L	40.0	4.5	10		12/30/14 21:16	107-05-1	
Benzene	12300	ug/L	100	15.0	100		12/31/14 10:58	71-43-2	
Bromobenzene	<1.3	ug/L	10.0	1.3	10		12/30/14 21:16	108-86-1	
Bromochloromethane	<1.2	ug/L	10.0	1.2	10		12/30/14 21:16	74-97-5	
Bromodichloromethane	<2.0	ug/L	10.0	2.0	10		12/30/14 21:16	75-27-4	
Bromoform	<20.0	ug/L	40.0	20.0	10		12/30/14 21:16	75-25-2	
Bromomethane	<20.0	ug/L	100	20.0	10		12/30/14 21:16	74-83-9	
2-Butanone (MEK)	<25.0	ug/L	50.0	25.0	10		12/30/14 21:16	78-93-3	
n-Butylbenzene	<5.0	ug/L	10.0	5.0	10		12/30/14 21:16	104-51-8	
sec-Butylbenzene	<5.0	ug/L	10.0	5.0	10		12/30/14 21:16	135-98-8	
tert-Butylbenzene	<5.0	ug/L	10.0	5.0	10		12/30/14 21:16	98-06-6	
Carbon tetrachloride	<1.6	ug/L	10.0	1.6	10		12/30/14 21:16	56-23-5	
Chlorobenzene	<0.66	ug/L	10.0	0.66	10		12/30/14 21:16	108-90-7	
Chloroethane	<2.4	ug/L	10.0	2.4	10		12/30/14 21:16	75-00-3	
Chloroform	<1.6	ug/L	10.0	1.6	10		12/30/14 21:16	67-66-3	
Chloromethane	<3.4	ug/L	40.0	3.4	10		12/30/14 21:16	74-87-3	
2-Chlorotoluene	<1.4	ug/L	10.0	1.4	10		12/30/14 21:16	95-49-8	
4-Chlorotoluene	<0.83	ug/L	10.0	0.83	10		12/30/14 21:16	106-43-4	
1,2-Dibromo-3-chloropropane	<20.0	ug/L	40.0	20.0	10		12/30/14 21:16	96-12-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-9 **Lab ID: 10292044018** Collected: 12/17/14 11:15 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC Analytical Method: EPA 8260									
Dibromochloromethane	<5.0	ug/L	10.0	5.0	10		12/30/14 21:16	124-48-1	
1,2-Dibromoethane (EDB)	<1.5	ug/L	10.0	1.5	10		12/30/14 21:16	106-93-4	
Dibromomethane	<1.8	ug/L	40.0	1.8	10		12/30/14 21:16	74-95-3	
1,2-Dichlorobenzene	<1.6	ug/L	10.0	1.6	10		12/30/14 21:16	95-50-1	
1,3-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		12/30/14 21:16	541-73-1	
1,4-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		12/30/14 21:16	106-46-7	
Dichlorodifluoromethane	<5.0	ug/L	40.0	5.0	10		12/30/14 21:16	75-71-8	
1,1-Dichloroethane	<1.6	ug/L	10.0	1.6	10		12/30/14 21:16	75-34-3	
1,2-Dichloroethane	<1.3	ug/L	10.0	1.3	10		12/30/14 21:16	107-06-2	
1,1-Dichloroethene	<2.0	ug/L	10.0	2.0	10		12/30/14 21:16	75-35-4	
cis-1,2-Dichloroethene	<1.3	ug/L	10.0	1.3	10		12/30/14 21:16	156-59-2	
trans-1,2-Dichloroethene	<2.3	ug/L	10.0	2.3	10		12/30/14 21:16	156-60-5	
Dichlorofluoromethane	<2.0	ug/L	10.0	2.0	10		12/30/14 21:16	75-43-4	
1,2-Dichloropropane	<1.4	ug/L	40.0	1.4	10		12/30/14 21:16	78-87-5	
1,3-Dichloropropane	<5.0	ug/L	10.0	5.0	10		12/30/14 21:16	142-28-9	
2,2-Dichloropropane	<1.7	ug/L	40.0	1.7	10		12/30/14 21:16	594-20-7	
1,1-Dichloropropene	<5.0	ug/L	10.0	5.0	10		12/30/14 21:16	563-58-6	
cis-1,3-Dichloropropene	<1.3	ug/L	40.0	1.3	10		12/30/14 21:16	10061-01-5	
trans-1,3-Dichloropropene	<1.8	ug/L	40.0	1.8	10		12/30/14 21:16	10061-02-6	
Diethyl ether (Ethyl ether)	<1.4	ug/L	40.0	1.4	10		12/30/14 21:16	60-29-7	
Ethylbenzene	426	ug/L	10.0	1.6	10		12/30/14 21:16	100-41-4	
Hexachloro-1,3-butadiene	<5.0	ug/L	10.0	5.0	10		12/30/14 21:16	87-68-3	
Isopropylbenzene (Cumene)	10.6	ug/L	10.0	5.0	10		12/30/14 21:16	98-82-8	
p-Isopropyltoluene	34.4	ug/L	10.0	5.0	10		12/30/14 21:16	99-87-6	
Methylene Chloride	<20.0	ug/L	40.0	20.0	10		12/30/14 21:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	<25.0	ug/L	50.0	25.0	10		12/30/14 21:16	108-10-1	
Methyl-tert-butyl ether	<1.7	ug/L	10.0	1.7	10		12/30/14 21:16	1634-04-4	
Naphthalene	888	ug/L	40.0	20.0	10		12/30/14 21:16	91-20-3	
n-Propylbenzene	5.1J	ug/L	10.0	5.0	10		12/30/14 21:16	103-65-1	
Styrene	161	ug/L	10.0	0.63	10		12/30/14 21:16	100-42-5	
1,1,1,2-Tetrachloroethane	<5.0	ug/L	10.0	5.0	10		12/30/14 21:16	630-20-6	
1,1,2,2-Tetrachloroethane	<5.0	ug/L	10.0	5.0	10		12/30/14 21:16	79-34-5	
Tetrachloroethene	<1.6	ug/L	10.0	1.6	10		12/30/14 21:16	127-18-4	
Tetrahydrofuran	<19.9	ug/L	100	19.9	10		12/30/14 21:16	109-99-9	
Toluene	6400	ug/L	100	11.0	100		12/31/14 10:58	108-88-3	
1,2,3-Trichlorobenzene	<5.0	ug/L	10.0	5.0	10		12/30/14 21:16	87-61-6	
1,2,4-Trichlorobenzene	<5.0	ug/L	10.0	5.0	10		12/30/14 21:16	120-82-1	
1,1,1-Trichloroethane	<2.6	ug/L	10.0	2.6	10		12/30/14 21:16	71-55-6	
1,1,2-Trichloroethane	<1.3	ug/L	10.0	1.3	10		12/30/14 21:16	79-00-5	
Trichloroethene	<0.91	ug/L	4.0	0.91	10		12/30/14 21:16	79-01-6	
Trichlorofluoromethane	<2.2	ug/L	10.0	2.2	10		12/30/14 21:16	75-69-4	
1,2,3-Trichloropropane	<12.2	ug/L	40.0	12.2	10		12/30/14 21:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	<5.0	ug/L	10.0	5.0	10		12/30/14 21:16	76-13-1	
1,2,4-Trimethylbenzene	85.5	ug/L	10.0	5.0	10		12/30/14 21:16	95-63-6	
1,3,5-Trimethylbenzene	31.8	ug/L	10.0	5.0	10		12/30/14 21:16	108-67-8	
Vinyl chloride	<2.0	ug/L	4.0	2.0	10		12/30/14 21:16	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-9 **Lab ID: 10292044018** Collected: 12/17/14 11:15 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Xylene (Total)	1720	ug/L	30.0	4.0	10		12/30/14 21:16	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	84 %.		75-125		10		12/30/14 21:16	17060-07-0	
Toluene-d8 (S)	93 %.		75-125		10		12/30/14 21:16	2037-26-5	
4-Bromofluorobenzene (S)	92 %.		75-125		10		12/30/14 21:16	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-13 **Lab ID: 10292044019** Collected: 12/17/14 08:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI									
Analytical Method: EPA 8270 by HVI					Preparation Method: EPA 3510				
Acenaphthene	0.10	ug/L	0.040	0.0046	1	12/23/14 16:31	01/02/15 10:12	83-32-9	
Acenaphthylene	0.0040J	ug/L	0.040	0.0021	1	12/23/14 16:31	01/02/15 10:12	208-96-8	
Anthracene	0.0094J	ug/L	0.040	0.0024	1	12/23/14 16:31	01/02/15 10:12	120-12-7	
Benzo(a)anthracene	<0.020	ug/L	0.040	0.020	1	12/23/14 16:31	01/02/15 10:12	56-55-3	
Benzo(a)pyrene	0.012J	ug/L	0.040	0.0030	1	12/23/14 16:31	01/02/15 10:12	50-32-8	B
Benzo(b)fluoranthene	0.0087J	ug/L	0.040	0.0022	1	12/23/14 16:31	01/02/15 10:12	205-99-2	B
Benzo(e)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/23/14 16:31	01/02/15 10:12	192-97-2	
Benzo(g,h,i)perylene	<0.0025	ug/L	0.040	0.0025	1	12/23/14 16:31	01/02/15 10:12	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.040	0.020	1	12/23/14 16:31	01/02/15 10:12	207-08-9	
2-Chloronaphthalene	<0.0029	ug/L	0.040	0.0029	1	12/23/14 16:31	01/02/15 10:12	91-58-7	
Chrysene	<0.020	ug/L	0.040	0.020	1	12/23/14 16:31	01/02/15 10:12	218-01-9	
Dibenz(a,h)anthracene	<0.0044	ug/L	0.040	0.0044	1	12/23/14 16:31	01/02/15 10:12	53-70-3	
Dibenzofuran	0.0058J	ug/L	0.040	0.0025	1	12/23/14 16:31	01/02/15 10:12	132-64-9	
Fluoranthene	0.010J	ug/L	0.040	0.0031	1	12/23/14 16:31	01/02/15 10:12	206-44-0	
Fluorene	0.033J	ug/L	0.040	0.0021	1	12/23/14 16:31	01/02/15 10:12	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0023	ug/L	0.040	0.0023	1	12/23/14 16:31	01/02/15 10:12	193-39-5	
1-Methylnaphthalene	0.12	ug/L	0.040	0.0045	1	12/23/14 16:31	01/02/15 10:12	90-12-0	
2-Methylnaphthalene	0.15	ug/L	0.040	0.0081	1	12/23/14 16:31	01/02/15 10:12	91-57-6	
Naphthalene	0.52	ug/L	0.16	0.014	1	12/23/14 16:31	01/02/15 10:12	91-20-3	
Phenanthrene	0.047	ug/L	0.040	0.0029	1	12/23/14 16:31	01/02/15 10:12	85-01-8	
Pyrene	0.0096J	ug/L	0.040	0.0073	1	12/23/14 16:31	01/02/15 10:12	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	32 %.		46-125		1	12/23/14 16:31	01/02/15 10:12	321-60-8	1M,S0
p-Terphenyl-d14 (S)	38 %.		51-125		1	12/23/14 16:31	01/02/15 10:12	1718-51-0	S0
8260 VOC									
Analytical Method: EPA 8260									
Acetone	<10.0	ug/L	20.0	10.0	1		12/30/14 21:58	67-64-1	
Allyl chloride	<0.45	ug/L	4.0	0.45	1		12/30/14 21:58	107-05-1	
Benzene	<0.15	ug/L	1.0	0.15	1		12/30/14 21:58	71-43-2	
Bromobenzene	<0.13	ug/L	1.0	0.13	1		12/30/14 21:58	108-86-1	
Bromochloromethane	<0.12	ug/L	1.0	0.12	1		12/30/14 21:58	74-97-5	
Bromodichloromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 21:58	75-27-4	
Bromoform	<2.0	ug/L	4.0	2.0	1		12/30/14 21:58	75-25-2	
Bromomethane	<2.0	ug/L	10.0	2.0	1		12/30/14 21:58	74-83-9	
2-Butanone (MEK)	<2.5	ug/L	5.0	2.5	1		12/30/14 21:58	78-93-3	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	104-51-8	
sec-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	135-98-8	
tert-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	98-06-6	
Carbon tetrachloride	<0.16	ug/L	1.0	0.16	1		12/30/14 21:58	56-23-5	
Chlorobenzene	<0.066	ug/L	1.0	0.066	1		12/30/14 21:58	108-90-7	
Chloroethane	<0.24	ug/L	1.0	0.24	1		12/30/14 21:58	75-00-3	
Chloroform	<0.16	ug/L	1.0	0.16	1		12/30/14 21:58	67-66-3	
Chloromethane	<0.34	ug/L	4.0	0.34	1		12/30/14 21:58	74-87-3	
2-Chlorotoluene	<0.14	ug/L	1.0	0.14	1		12/30/14 21:58	95-49-8	
4-Chlorotoluene	<0.083	ug/L	1.0	0.083	1		12/30/14 21:58	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0	ug/L	4.0	2.0	1		12/30/14 21:58	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-13 Lab ID: 10292044019 Collected: 12/17/14 08:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	124-48-1	
1,2-Dibromoethane (EDB)	<0.15	ug/L	1.0	0.15	1		12/30/14 21:58	106-93-4	
Dibromomethane	<0.18	ug/L	4.0	0.18	1		12/30/14 21:58	74-95-3	
1,2-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/30/14 21:58	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	4.0	0.50	1		12/30/14 21:58	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		12/30/14 21:58	75-34-3	
1,2-Dichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 21:58	107-06-2	
1,1-Dichloroethene	<0.20	ug/L	1.0	0.20	1		12/30/14 21:58	75-35-4	
cis-1,2-Dichloroethene	<0.13	ug/L	1.0	0.13	1		12/30/14 21:58	156-59-2	
trans-1,2-Dichloroethene	<0.23	ug/L	1.0	0.23	1		12/30/14 21:58	156-60-5	
Dichlorofluoromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 21:58	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	4.0	0.14	1		12/30/14 21:58	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	142-28-9	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/30/14 21:58	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	563-58-6	
cis-1,3-Dichloropropene	<0.13	ug/L	4.0	0.13	1		12/30/14 21:58	10061-01-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/30/14 21:58	10061-02-6	
Diethyl ether (Ethyl ether)	<0.14	ug/L	4.0	0.14	1		12/30/14 21:58	60-29-7	
Ethylbenzene	<0.16	ug/L	1.0	0.16	1		12/30/14 21:58	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	99-87-6	
Methylene Chloride	<2.0	ug/L	4.0	2.0	1		12/30/14 21:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	<2.5	ug/L	5.0	2.5	1		12/30/14 21:58	108-10-1	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/30/14 21:58	1634-04-4	
Naphthalene	<2.0	ug/L	4.0	2.0	1		12/30/14 21:58	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	103-65-1	
Styrene	<0.063	ug/L	1.0	0.063	1		12/30/14 21:58	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	79-34-5	
Tetrachloroethene	<0.16	ug/L	1.0	0.16	1		12/30/14 21:58	127-18-4	
Tetrahydrofuran	<2.0	ug/L	10.0	2.0	1		12/30/14 21:58	109-99-9	
Toluene	<0.11	ug/L	1.0	0.11	1		12/30/14 21:58	108-88-3	
1,2,3-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/L	1.0	0.26	1		12/30/14 21:58	71-55-6	
1,1,2-Trichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 21:58	79-00-5	
Trichloroethene	<0.091	ug/L	0.40	0.091	1		12/30/14 21:58	79-01-6	
Trichlorofluoromethane	<0.22	ug/L	1.0	0.22	1		12/30/14 21:58	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	4.0	1.2	1		12/30/14 21:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	76-13-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 21:58	108-67-8	
Vinyl chloride	<0.20	ug/L	0.40	0.20	1		12/30/14 21:58	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-13 **Lab ID: 10292044019** Collected: 12/17/14 08:45 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Xylene (Total)	<0.40	ug/L	3.0	0.40	1		12/30/14 21:58	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	84 %.		75-125		1		12/30/14 21:58	17060-07-0	
Toluene-d8 (S)	92 %.		75-125		1		12/30/14 21:58	2037-26-5	
4-Bromofluorobenzene (S)	95 %.		75-125		1		12/30/14 21:58	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-22 **Lab ID: 10292044020** Collected: 12/17/14 12:25 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SIM HVI									
Analytical Method: EPA 8270 by HVI					Preparation Method: EPA 3510				
Acenaphthene	0.11	ug/L	0.040	0.0046	1	12/23/14 16:31	01/02/15 10:37	83-32-9	
Acenaphthylene	0.0096J	ug/L	0.040	0.0021	1	12/23/14 16:31	01/02/15 10:37	208-96-8	
Anthracene	0.097	ug/L	0.040	0.0024	1	12/23/14 16:31	01/02/15 10:37	120-12-7	
Benzo(a)anthracene	<0.020	ug/L	0.040	0.020	1	12/23/14 16:31	01/02/15 10:37	56-55-3	
Benzo(a)pyrene	0.016J	ug/L	0.040	0.0030	1	12/23/14 16:31	01/02/15 10:37	50-32-8	B
Benzo(b)fluoranthene	0.010J	ug/L	0.040	0.0022	1	12/23/14 16:31	01/02/15 10:37	205-99-2	B
Benzo(e)pyrene	<0.0030	ug/L	0.040	0.0030	1	12/23/14 16:31	01/02/15 10:37	192-97-2	
Benzo(g,h,i)perylene	<0.0025	ug/L	0.040	0.0025	1	12/23/14 16:31	01/02/15 10:37	191-24-2	
Benzo(k)fluoranthene	<0.020	ug/L	0.040	0.020	1	12/23/14 16:31	01/02/15 10:37	207-08-9	
2-Chloronaphthalene	<0.0029	ug/L	0.040	0.0029	1	12/23/14 16:31	01/02/15 10:37	91-58-7	
Chrysene	<0.020	ug/L	0.040	0.020	1	12/23/14 16:31	01/02/15 10:37	218-01-9	
Dibenz(a,h)anthracene	<0.0044	ug/L	0.040	0.0044	1	12/23/14 16:31	01/02/15 10:37	53-70-3	
Dibenzofuran	0.033J	ug/L	0.040	0.0025	1	12/23/14 16:31	01/02/15 10:37	132-64-9	
Fluoranthene	0.014J	ug/L	0.040	0.0031	1	12/23/14 16:31	01/02/15 10:37	206-44-0	
Fluorene	0.017J	ug/L	0.040	0.0021	1	12/23/14 16:31	01/02/15 10:37	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0023	ug/L	0.040	0.0023	1	12/23/14 16:31	01/02/15 10:37	193-39-5	
1-Methylnaphthalene	0.18	ug/L	0.040	0.0045	1	12/23/14 16:31	01/02/15 10:37	90-12-0	
2-Methylnaphthalene	0.14	ug/L	0.040	0.0081	1	12/23/14 16:31	01/02/15 10:37	91-57-6	
Naphthalene	0.50	ug/L	0.16	0.014	1	12/23/14 16:31	01/02/15 10:37	91-20-3	
Phenanthrene	0.061	ug/L	0.040	0.0029	1	12/23/14 16:31	01/02/15 10:37	85-01-8	
Pyrene	0.015J	ug/L	0.040	0.0073	1	12/23/14 16:31	01/02/15 10:37	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71 %.		46-125		1	12/23/14 16:31	01/02/15 10:37	321-60-8	
p-Terphenyl-d14 (S)	81 %.		51-125		1	12/23/14 16:31	01/02/15 10:37	1718-51-0	
8260 VOC									
Analytical Method: EPA 8260									
Acetone	144	ug/L	20.0	10.0	1		12/30/14 22:13	67-64-1	
Allyl chloride	<0.45	ug/L	4.0	0.45	1		12/30/14 22:13	107-05-1	
Benzene	4.4	ug/L	1.0	0.15	1		12/30/14 22:13	71-43-2	
Bromobenzene	<0.13	ug/L	1.0	0.13	1		12/30/14 22:13	108-86-1	
Bromochloromethane	<0.12	ug/L	1.0	0.12	1		12/30/14 22:13	74-97-5	
Bromodichloromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 22:13	75-27-4	
Bromoform	<2.0	ug/L	4.0	2.0	1		12/30/14 22:13	75-25-2	
Bromomethane	<2.0	ug/L	10.0	2.0	1		12/30/14 22:13	74-83-9	
2-Butanone (MEK)	5.2	ug/L	5.0	2.5	1		12/30/14 22:13	78-93-3	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 22:13	104-51-8	
sec-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 22:13	135-98-8	
tert-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 22:13	98-06-6	
Carbon tetrachloride	<0.16	ug/L	1.0	0.16	1		12/30/14 22:13	56-23-5	
Chlorobenzene	<0.066	ug/L	1.0	0.066	1		12/30/14 22:13	108-90-7	
Chloroethane	<0.24	ug/L	1.0	0.24	1		12/30/14 22:13	75-00-3	
Chloroform	<0.16	ug/L	1.0	0.16	1		12/30/14 22:13	67-66-3	
Chloromethane	<0.34	ug/L	4.0	0.34	1		12/30/14 22:13	74-87-3	
2-Chlorotoluene	<0.14	ug/L	1.0	0.14	1		12/30/14 22:13	95-49-8	
4-Chlorotoluene	<0.083	ug/L	1.0	0.083	1		12/30/14 22:13	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0	ug/L	4.0	2.0	1		12/30/14 22:13	96-12-8	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: **MW-22** Lab ID: **10292044020** Collected: 12/17/14 12:25 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC Analytical Method: EPA 8260									
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/30/14 22:13	124-48-1	
1,2-Dibromoethane (EDB)	<0.15	ug/L	1.0	0.15	1		12/30/14 22:13	106-93-4	
Dibromomethane	<0.18	ug/L	4.0	0.18	1		12/30/14 22:13	74-95-3	
1,2-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/30/14 22:13	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 22:13	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 22:13	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	4.0	0.50	1		12/30/14 22:13	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		12/30/14 22:13	75-34-3	
1,2-Dichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 22:13	107-06-2	
1,1-Dichloroethene	<0.20	ug/L	1.0	0.20	1		12/30/14 22:13	75-35-4	
cis-1,2-Dichloroethene	<0.13	ug/L	1.0	0.13	1		12/30/14 22:13	156-59-2	
trans-1,2-Dichloroethene	<0.23	ug/L	1.0	0.23	1		12/30/14 22:13	156-60-5	
Dichlorofluoromethane	<0.20	ug/L	1.0	0.20	1		12/30/14 22:13	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	4.0	0.14	1		12/30/14 22:13	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/30/14 22:13	142-28-9	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/30/14 22:13	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/30/14 22:13	563-58-6	
cis-1,3-Dichloropropene	<0.13	ug/L	4.0	0.13	1		12/30/14 22:13	10061-01-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/30/14 22:13	10061-02-6	
Diethyl ether (Ethyl ether)	<0.14	ug/L	4.0	0.14	1		12/30/14 22:13	60-29-7	
Ethylbenzene	<0.16	ug/L	1.0	0.16	1		12/30/14 22:13	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	1.0	0.50	1		12/30/14 22:13	87-68-3	
Isopropylbenzene (Cumene)	0.64J	ug/L	1.0	0.50	1		12/30/14 22:13	98-82-8	
p-Isopropyltoluene	1.9	ug/L	1.0	0.50	1		12/30/14 22:13	99-87-6	
Methylene Chloride	<2.0	ug/L	4.0	2.0	1		12/30/14 22:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	<2.5	ug/L	5.0	2.5	1		12/30/14 22:13	108-10-1	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/30/14 22:13	1634-04-4	
Naphthalene	<2.0	ug/L	4.0	2.0	1		12/30/14 22:13	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 22:13	103-65-1	
Styrene	<0.063	ug/L	1.0	0.063	1		12/30/14 22:13	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 22:13	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 22:13	79-34-5	
Tetrachloroethene	<0.16	ug/L	1.0	0.16	1		12/30/14 22:13	127-18-4	
Tetrahydrofuran	<2.0	ug/L	10.0	2.0	1		12/30/14 22:13	109-99-9	
Toluene	1.4	ug/L	1.0	0.11	1		12/30/14 22:13	108-88-3	
1,2,3-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 22:13	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/30/14 22:13	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/L	1.0	0.26	1		12/30/14 22:13	71-55-6	
1,1,2-Trichloroethane	<0.13	ug/L	1.0	0.13	1		12/30/14 22:13	79-00-5	
Trichloroethene	<0.091	ug/L	0.40	0.091	1		12/30/14 22:13	79-01-6	
Trichlorofluoromethane	<0.22	ug/L	1.0	0.22	1		12/30/14 22:13	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	4.0	1.2	1		12/30/14 22:13	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	1.0	0.50	1		12/30/14 22:13	76-13-1	
1,2,4-Trimethylbenzene	5.1	ug/L	1.0	0.50	1		12/30/14 22:13	95-63-6	
1,3,5-Trimethylbenzene	3.2	ug/L	1.0	0.50	1		12/30/14 22:13	108-67-8	
Vinyl chloride	<0.20	ug/L	0.40	0.20	1		12/30/14 22:13	75-01-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: MW-22 **Lab ID: 10292044020** Collected: 12/17/14 12:25 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC									
Analytical Method: EPA 8260									
Xylene (Total)	<0.40	ug/L	3.0	0.40	1		12/30/14 22:13	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	84 %.		75-125		1		12/30/14 22:13	17060-07-0	pH
Toluene-d8 (S)	94 %.		75-125		1		12/30/14 22:13	2037-26-5	
4-Bromofluorobenzene (S)	93 %.		75-125		1		12/30/14 22:13	460-00-4	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: Trip Blank Lab ID: 10292044021 Collected: 12/17/14 12:25 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Acetone	<10.0	ug/L	20.0	10.0	1		12/31/14 15:32	67-64-1	
Allyl chloride	<0.45	ug/L	4.0	0.45	1		12/31/14 15:32	107-05-1	
Benzene	<0.15	ug/L	1.0	0.15	1		12/31/14 15:32	71-43-2	
Bromobenzene	<0.13	ug/L	1.0	0.13	1		12/31/14 15:32	108-86-1	
Bromochloromethane	<0.12	ug/L	1.0	0.12	1		12/31/14 15:32	74-97-5	
Bromodichloromethane	<0.20	ug/L	1.0	0.20	1		12/31/14 15:32	75-27-4	
Bromoform	<2.0	ug/L	4.0	2.0	1		12/31/14 15:32	75-25-2	
Bromomethane	<2.0	ug/L	10.0	2.0	1		12/31/14 15:32	74-83-9	
2-Butanone (MEK)	<2.5	ug/L	5.0	2.5	1		12/31/14 15:32	78-93-3	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	104-51-8	
sec-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	135-98-8	
tert-Butylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	98-06-6	
Carbon tetrachloride	<0.16	ug/L	1.0	0.16	1		12/31/14 15:32	56-23-5	
Chlorobenzene	<0.066	ug/L	1.0	0.066	1		12/31/14 15:32	108-90-7	
Chloroethane	<0.24	ug/L	1.0	0.24	1		12/31/14 15:32	75-00-3	
Chloroform	<0.16	ug/L	1.0	0.16	1		12/31/14 15:32	67-66-3	
Chloromethane	<0.34	ug/L	4.0	0.34	1		12/31/14 15:32	74-87-3	
2-Chlorotoluene	<0.14	ug/L	1.0	0.14	1		12/31/14 15:32	95-49-8	
4-Chlorotoluene	<0.083	ug/L	1.0	0.083	1		12/31/14 15:32	106-43-4	
1,2-Dibromo-3-chloropropane	<2.0	ug/L	4.0	2.0	1		12/31/14 15:32	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	124-48-1	
1,2-Dibromoethane (EDB)	<0.15	ug/L	1.0	0.15	1		12/31/14 15:32	106-93-4	
Dibromomethane	<0.18	ug/L	4.0	0.18	1		12/31/14 15:32	74-95-3	
1,2-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/31/14 15:32	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	4.0	0.50	1		12/31/14 15:32	75-71-8	
1,1-Dichloroethane	<0.16	ug/L	1.0	0.16	1		12/31/14 15:32	75-34-3	
1,2-Dichloroethane	<0.13	ug/L	1.0	0.13	1		12/31/14 15:32	107-06-2	
1,1-Dichloroethene	<0.20	ug/L	1.0	0.20	1		12/31/14 15:32	75-35-4	
cis-1,2-Dichloroethene	<0.13	ug/L	1.0	0.13	1		12/31/14 15:32	156-59-2	
trans-1,2-Dichloroethene	<0.23	ug/L	1.0	0.23	1		12/31/14 15:32	156-60-5	
Dichlorofluoromethane	<0.20	ug/L	1.0	0.20	1		12/31/14 15:32	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	4.0	0.14	1		12/31/14 15:32	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	142-28-9	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/31/14 15:32	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	563-58-6	
cis-1,3-Dichloropropene	<0.13	ug/L	4.0	0.13	1		12/31/14 15:32	10061-01-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/31/14 15:32	10061-02-6	
Diethyl ether (Ethyl ether)	<0.14	ug/L	4.0	0.14	1		12/31/14 15:32	60-29-7	
Ethylbenzene	<0.16	ug/L	1.0	0.16	1		12/31/14 15:32	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	99-87-6	
Methylene Chloride	<2.0	ug/L	4.0	2.0	1		12/31/14 15:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	<2.5	ug/L	5.0	2.5	1		12/31/14 15:32	108-10-1	

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ANALYTICAL RESULTS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Sample: Trip Blank **Lab ID: 10292044021** Collected: 12/17/14 12:25 Received: 12/17/14 16:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC Analytical Method: EPA 8260									
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		12/31/14 15:32	1634-04-4	
Naphthalene	<2.0	ug/L	4.0	2.0	1		12/31/14 15:32	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	103-65-1	
Styrene	<0.063	ug/L	1.0	0.063	1		12/31/14 15:32	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	79-34-5	
Tetrachloroethene	<0.16	ug/L	1.0	0.16	1		12/31/14 15:32	127-18-4	
Tetrahydrofuran	<2.0	ug/L	10.0	2.0	1		12/31/14 15:32	109-99-9	
Toluene	<0.11	ug/L	1.0	0.11	1		12/31/14 15:32	108-88-3	
1,2,3-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/L	1.0	0.26	1		12/31/14 15:32	71-55-6	
1,1,2-Trichloroethane	<0.13	ug/L	1.0	0.13	1		12/31/14 15:32	79-00-5	
Trichloroethene	<0.091	ug/L	0.40	0.091	1		12/31/14 15:32	79-01-6	
Trichlorofluoromethane	<0.22	ug/L	1.0	0.22	1		12/31/14 15:32	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	4.0	1.2	1		12/31/14 15:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	76-13-1	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		12/31/14 15:32	108-67-8	
Vinyl chloride	<0.20	ug/L	0.40	0.20	1		12/31/14 15:32	75-01-4	
Xylene (Total)	<0.40	ug/L	3.0	0.40	1		12/31/14 15:32	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	86 %.		75-125		1		12/31/14 15:32	17060-07-0	
Toluene-d8 (S)	90 %.		75-125		1		12/31/14 15:32	2037-26-5	
4-Bromofluorobenzene (S)	93 %.		75-125		1		12/31/14 15:32	460-00-4	

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

QC Batch: MSV/29914 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
 Associated Lab Samples: 10292044004, 10292044006, 10292044008, 10292044009, 10292044011

METHOD BLANK: 1872352 Matrix: Water
 Associated Lab Samples: 10292044004, 10292044006, 10292044008, 10292044009, 10292044011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	1.0	12/24/14 13:02	
1,1,1-Trichloroethane	ug/L	<0.26	1.0	12/24/14 13:02	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	1.0	12/24/14 13:02	
1,1,2-Trichloroethane	ug/L	<0.14	1.0	12/24/14 13:02	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	1.0	12/24/14 13:02	
1,1-Dichloroethane	ug/L	<0.16	1.0	12/24/14 13:02	
1,1-Dichloroethene	ug/L	<0.20	1.0	12/24/14 13:02	
1,1-Dichloropropene	ug/L	<0.50	1.0	12/24/14 13:02	
1,2,3-Trichlorobenzene	ug/L	<0.50	1.0	12/24/14 13:02	
1,2,3-Trichloropropane	ug/L	<1.2	4.0	12/24/14 13:02	
1,2,4-Trichlorobenzene	ug/L	<0.50	1.0	12/24/14 13:02	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	12/24/14 13:02	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	4.0	12/24/14 13:02	
1,2-Dibromoethane (EDB)	ug/L	<0.15	1.0	12/24/14 13:02	
1,2-Dichlorobenzene	ug/L	<0.16	1.0	12/24/14 13:02	
1,2-Dichloroethane	ug/L	<0.13	1.0	12/24/14 13:02	
1,2-Dichloropropane	ug/L	<0.14	4.0	12/24/14 13:02	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	12/24/14 13:02	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	12/24/14 13:02	
1,3-Dichloropropane	ug/L	<0.50	1.0	12/24/14 13:02	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	12/24/14 13:02	
2,2-Dichloropropane	ug/L	<0.17	4.0	12/24/14 13:02	
2-Butanone (MEK)	ug/L	<2.5	5.0	12/24/14 13:02	
2-Chlorotoluene	ug/L	<0.14	1.0	12/24/14 13:02	
4-Chlorotoluene	ug/L	<0.083	1.0	12/24/14 13:02	
4-Methyl-2-pentanone (MIBK)	ug/L	<2.5	5.0	12/24/14 13:02	
Acetone	ug/L	<10.0	20.0	12/24/14 13:02	
Allyl chloride	ug/L	<0.45	4.0	12/24/14 13:02	
Benzene	ug/L	0.23J	1.0	12/24/14 13:02	
Bromobenzene	ug/L	<0.13	1.0	12/24/14 13:02	
Bromochloromethane	ug/L	<0.12	1.0	12/24/14 13:02	
Bromodichloromethane	ug/L	<0.20	1.0	12/24/14 13:02	
Bromoform	ug/L	<2.0	4.0	12/24/14 13:02	
Bromomethane	ug/L	<2.0	4.0	12/24/14 13:02	
Carbon tetrachloride	ug/L	<0.16	1.0	12/24/14 13:02	
Chlorobenzene	ug/L	<0.066	1.0	12/24/14 13:02	
Chloroethane	ug/L	<0.27	1.0	12/24/14 13:02	
Chloroform	ug/L	<0.16	1.0	12/24/14 13:02	
Chloromethane	ug/L	<0.34	4.0	12/24/14 13:02	
cis-1,2-Dichloroethene	ug/L	<0.13	1.0	12/24/14 13:02	
cis-1,3-Dichloropropene	ug/L	<0.13	4.0	12/24/14 13:02	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

METHOD BLANK: 1872352

Matrix: Water

Associated Lab Samples: 10292044004, 10292044006, 10292044008, 10292044009, 10292044011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<0.50	1.0	12/24/14 13:02	
Dibromomethane	ug/L	<0.18	4.0	12/24/14 13:02	
Dichlorodifluoromethane	ug/L	<0.50	4.0	12/24/14 13:02	
Dichlorofluoromethane	ug/L	<0.20	1.0	12/24/14 13:02	
Diethyl ether (Ethyl ether)	ug/L	<0.14	4.0	12/24/14 13:02	
Ethylbenzene	ug/L	<0.16	1.0	12/24/14 13:02	
Hexachloro-1,3-butadiene	ug/L	<0.50	1.0	12/24/14 13:02	
Isopropylbenzene (Cumene)	ug/L	<0.50	1.0	12/24/14 13:02	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	12/24/14 13:02	
Methylene Chloride	ug/L	<2.0	4.0	12/24/14 13:02	
n-Butylbenzene	ug/L	<0.50	1.0	12/24/14 13:02	
n-Propylbenzene	ug/L	<0.50	1.0	12/24/14 13:02	
Naphthalene	ug/L	<2.0	4.0	12/24/14 13:02	
p-Isopropyltoluene	ug/L	<0.50	1.0	12/24/14 13:02	
sec-Butylbenzene	ug/L	<0.50	1.0	12/24/14 13:02	
Styrene	ug/L	<0.069	1.0	12/24/14 13:02	
tert-Butylbenzene	ug/L	<0.50	1.0	12/24/14 13:02	
Tetrachloroethane	ug/L	0.25J	1.0	12/24/14 13:02	
Tetrahydrofuran	ug/L	<2.0	10.0	12/24/14 13:02	
Toluene	ug/L	<0.11	1.0	12/24/14 13:02	
trans-1,2-Dichloroethane	ug/L	<0.23	1.0	12/24/14 13:02	
trans-1,3-Dichloropropene	ug/L	<0.18	4.0	12/24/14 13:02	
Trichloroethane	ug/L	<0.091	0.40	12/24/14 13:02	
Trichlorofluoromethane	ug/L	<0.22	1.0	12/24/14 13:02	
Vinyl chloride	ug/L	<0.10	0.40	12/24/14 13:02	
Xylene (Total)	ug/L	<0.40	3.0	12/24/14 13:02	
1,2-Dichloroethane-d4 (S)	%	102	75-125	12/24/14 13:02	
4-Bromofluorobenzene (S)	%	102	75-125	12/24/14 13:02	
Toluene-d8 (S)	%	99	75-125	12/24/14 13:02	

LABORATORY CONTROL SAMPLE: 1872353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	16.5	82	75-125	
1,1,1-Trichloroethane	ug/L	20	17.2	86	73-125	
1,1,2,2-Tetrachloroethane	ug/L	20	15.3	77	74-125	
1,1,2-Trichloroethane	ug/L	20	16.4	82	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	14.6	73	56-133	
1,1-Dichloroethane	ug/L	20	16.7	83	75-125	
1,1-Dichloroethene	ug/L	20	17.8	89	70-125	
1,1-Dichloropropene	ug/L	20	16.3	81	73-125	
1,2,3-Trichlorobenzene	ug/L	20	16.7	84	75-125	
1,2,3-Trichloropropane	ug/L	20	14.4	72	75-125 L0	
1,2,4-Trichlorobenzene	ug/L	20	15.8	79	75-125	

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

LABORATORY CONTROL SAMPLE: 1872353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	17.5	88	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	37.1	74	70-125	
1,2-Dibromoethane (EDB)	ug/L	20	16.6	83	75-125	
1,2-Dichlorobenzene	ug/L	20	17.2	86	75-125	
1,2-Dichloroethane	ug/L	20	17.5	88	75-125	
1,2-Dichloropropane	ug/L	20	17.8	89	75-125	
1,3,5-Trimethylbenzene	ug/L	20	16.6	83	75-125	
1,3-Dichlorobenzene	ug/L	20	16.4	82	75-125	
1,3-Dichloropropane	ug/L	20	15.7	79	75-125	
1,4-Dichlorobenzene	ug/L	20	16.1	81	75-125	
2,2-Dichloropropane	ug/L	20	16.3	81	66-130	
2-Butanone (MEK)	ug/L	100	72.2	72	64-126	
2-Chlorotoluene	ug/L	20	16.6	83	73-125	
4-Chlorotoluene	ug/L	20	17.2	86	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	78.4	78	71-125	
Acetone	ug/L	100	75.8	76	66-131	
Allyl chloride	ug/L	20	16.3	81	70-129	
Benzene	ug/L	20	17.0	85	75-125	
Bromobenzene	ug/L	20	16.1	80	75-125	
Bromochloromethane	ug/L	20	14.8	74	75-125 L0	
Bromodichloromethane	ug/L	20	16.8	84	75-125	
Bromoform	ug/L	20	15.8	79	70-125	
Bromomethane	ug/L	20	19.1	95	30-150	
Carbon tetrachloride	ug/L	20	17.2	86	68-129	
Chlorobenzene	ug/L	20	16.5	82	75-125	
Chloroethane	ug/L	20	29.6	148	68-133 L0	
Chloroform	ug/L	20	17.2	86	75-125	
Chloromethane	ug/L	20	21.5	108	57-140	
cis-1,2-Dichloroethene	ug/L	20	16.1	81	75-125	
cis-1,3-Dichloropropene	ug/L	20	16.6	83	75-125	
Dibromochloromethane	ug/L	20	16.8	84	75-125	
Dibromomethane	ug/L	20	17.6	88	75-125	
Dichlorodifluoromethane	ug/L	20	25.4	127	50-134	
Dichlorofluoromethane	ug/L	20	19.1	95	74-125	
Diethyl ether (Ethyl ether)	ug/L	20	16.3	81	75-125	
Ethylbenzene	ug/L	20	17.8	89	75-125	
Hexachloro-1,3-butadiene	ug/L	20	15.7	79	74-128	
Isopropylbenzene (Cumene)	ug/L	20	17.8	89	73-125	
Methyl-tert-butyl ether	ug/L	20	15.7	79	75-125	
Methylene Chloride	ug/L	20	14.5	73	75-125 L0	
n-Butylbenzene	ug/L	20	16.2	81	73-125	
n-Propylbenzene	ug/L	20	16.4	82	72-125	
Naphthalene	ug/L	20	13.8	69	74-125 L0	
p-Isopropyltoluene	ug/L	20	17.3	86	74-125	
sec-Butylbenzene	ug/L	20	16.5	83	74-125	
Styrene	ug/L	20	17.8	89	75-125	
tert-Butylbenzene	ug/L	20	16.9	84	74-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP
Pace Project No.: 10292044

LABORATORY CONTROL SAMPLE: 1872353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	17.0	85	71-125	
Tetrahydrofuran	ug/L	200	172	86	70-125	
Toluene	ug/L	20	16.6	83	75-125	
trans-1,2-Dichloroethene	ug/L	20	16.4	82	73-125	
trans-1,3-Dichloropropene	ug/L	20	15.8	79	75-125	
Trichloroethene	ug/L	20	16.9	84	75-125	
Trichlorofluoromethane	ug/L	20	17.2	86	70-128	
Vinyl chloride	ug/L	20	23.1	116	70-130	
Xylene (Total)	ug/L	60	50.1	83	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			94	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1874341 1874342

Parameter	Units	10258635028		1874341		1874342		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
1,1,1,2-Tetrachloroethane	ug/L	ND	2000	2000	1960	2110	98	105	74-131	7	30			
1,1,1-Trichloroethane	ug/L	ND	2000	2000	1910	2100	95	105	73-139	9	30			
1,1,2,2-Tetrachloroethane	ug/L	ND	2000	2000	1800	1890	90	94	72-125	5	30			
1,1,2-Trichloroethane	ug/L	ND	2000	2000	1910	2010	96	101	75-125	5	30			
1,1,2-Trichlorotrifluoroethane	ug/L	ND	2000	2000	1750	1980	87	99	68-150	13	30			
1,1-Dichloroethane	ug/L	ND	2000	2000	1850	1940	92	97	73-132	5	30			
1,1-Dichloroethene	ug/L	ND	2000	2000	2470	2520	123	126	71-142	2	30			
1,1-Dichloropropene	ug/L	ND	2000	2000	1800	1920	90	96	73-139	6	30			
1,2,3-Trichlorobenzene	ug/L	ND	2000	2000	1910	2090	95	104	70-129	9	30			
1,2,3-Trichloropropane	ug/L	ND	2000	2000	1760	1830	88	92	74-125	4	30			
1,2,4-Trichlorobenzene	ug/L	ND	2000	2000	1720	1900	86	95	70-129	10	30			
1,2,4-Trimethylbenzene	ug/L	ND	2000	2000	1950	2130	98	106	72-136	9	30			
1,2-Dibromo-3-chloropropane	ug/L	ND	5000	5000	4350	4580	87	92	66-127	5	30			
1,2-Dibromoethane (EDB)	ug/L	ND	2000	2000	1900	2070	95	103	75-125	9	30			
1,2-Dichlorobenzene	ug/L	ND	2000	2000	1950	2060	97	103	75-125	6	30			
1,2-Dichloroethane	ug/L	ND	2000	2000	2080	2090	104	104	68-128	0	30			
1,2-Dichloropropane	ug/L	ND	2000	2000	1970	2090	99	105	74-131	6	30			
1,3,5-Trimethylbenzene	ug/L	ND	2000	2000	1920	2060	96	103	75-131	7	30			
1,3-Dichlorobenzene	ug/L	ND	2000	2000	1860	1980	93	99	73-125	6	30			
1,3-Dichloropropane	ug/L	ND	2000	2000	1890	2000	94	100	75-125	6	30			
1,4-Dichlorobenzene	ug/L	ND	2000	2000	1810	1970	90	98	73-125	8	30			
2,2-Dichloropropane	ug/L	ND	2000	2000	1690	1750	85	87	58-150	3	30			
2-Butanone (MEK)	ug/L	ND	10000	10000	8670	8730	87	87	56-140	1	30			
2-Chlorotoluene	ug/L	ND	2000	2000	1890	2070	95	104	70-130	9	30			
4-Chlorotoluene	ug/L	ND	2000	2000	1950	2090	98	104	73-126	7	30			
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10000	10000	9610	9860	96	99	69-128	3	30			
Acetone	ug/L	ND	10000	10000	10600	10600	106	106	57-143	0	30			

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1874341												1874342											
Parameter	Units	10258635028		MS	MSD	MS		MSD	% Rec	Max		Qual											
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD		RPD										
Allyl chloride	ug/L	ND	2000	2000	2000	1840	1940	92	97	65-146	5	30											
Benzene	ug/L	ND	2000	2000	2000	1840	1940	92	97	75-129	5	30											
Bromobenzene	ug/L	ND	2000	2000	2000	1820	1980	91	99	74-125	8	30											
Bromochloromethane	ug/L	ND	2000	2000	2000	2130	2120	106	106	75-126	0	30											
Bromodichloromethane	ug/L	ND	2000	2000	2000	1930	2090	97	104	75-128	8	30											
Bromoform	ug/L	ND	2000	2000	2000	1900	2010	95	100	66-130	5	30											
Bromomethane	ug/L	ND	2000	2000	2000	3100	2640	155	132	30-150	16	30	M1										
Carbon tetrachloride	ug/L	ND	2000	2000	2000	1980	2100	99	105	69-148	6	30											
Chlorobenzene	ug/L	ND	2000	2000	2000	1820	2020	91	101	75-125	11	30											
Chloroethane	ug/L	ND	2000	2000	2000	2900	3730	145	186	71-143	25	30	M0										
Chloroform	ug/L	ND	2000	2000	2000	1990	2050	100	102	75-126	3	30											
Chloromethane	ug/L	ND	2000	2000	2000	2490	2600	124	130	55-150	4	30											
cis-1,2-Dichloroethene	ug/L	288	2000	2000	2000	2650	2870	118	129	75-130	8	30											
cis-1,3-Dichloropropene	ug/L	ND	2000	2000	2000	1820	2010	91	101	72-129	10	30											
Dibromochloromethane	ug/L	ND	2000	2000	2000	2010	2100	100	105	73-129	4	30											
Dibromomethane	ug/L	ND	2000	2000	2000	2060	2130	103	106	75-125	3	30											
Dichlorodifluoromethane	ug/L	ND	2000	2000	2000	3400	3820	170	191	70-150	12	30	M1										
Dichlorofluoromethane	ug/L	ND	2000	2000	2000	2230	2510	111	125	75-135	12	30											
Diethyl ether (Ethyl ether)	ug/L	ND	2000	2000	2000	1810	1950	90	98	72-126	8	30											
Ethylbenzene	ug/L	ND	2000	2000	2000	2000	2170	100	108	75-128	8	30											
Hexachloro-1,3-butadiene	ug/L	ND	2000	2000	2000	1790	1990	90	100	65-144	11	30											
Isopropylbenzene (Cumene)	ug/L	ND	2000	2000	2000	2010	2240	101	112	75-131	11	30											
Methyl-tert-butyl ether	ug/L	ND	2000	2000	2000	1800	1900	90	95	74-128	5	30											
Methylene Chloride	ug/L	ND	2000	2000	2000	1930	1930	96	96	69-125	0	30											
n-Butylbenzene	ug/L	ND	2000	2000	2000	1810	2060	91	103	70-137	13	30											
n-Propylbenzene	ug/L	ND	2000	2000	2000	1850	2030	93	102	72-131	9	30											
Naphthalene	ug/L	ND	2000	2000	2000	1740	1800	87	90	70-132	4	30											
p-Isopropyltoluene	ug/L	ND	2000	2000	2000	1900	2140	95	107	73-133	12	30											
sec-Butylbenzene	ug/L	ND	2000	2000	2000	1900	2090	95	104	74-133	9	30											
Styrene	ug/L	ND	2000	2000	2000	1970	2240	98	112	75-128	13	30											
tert-Butylbenzene	ug/L	ND	2000	2000	2000	1930	2110	96	105	74-130	9	30											
Tetrachloroethene	ug/L	12300	2000	2000	2000	15100	16100	142	192	68-140	6	30	M1										
Tetrahydrofuran	ug/L	ND	20000	20000	20000	21400	21400	107	107	65-131	0	30											
Toluene	ug/L	ND	2000	2000	2000	1830	1990	91	99	75-129	8	30											
trans-1,2-Dichloroethene	ug/L	ND	2000	2000	2000	1820	1930	91	97	70-136	6	30											
trans-1,3-Dichloropropene	ug/L	ND	2000	2000	2000	1830	1990	92	99	71-125	8	30											
Trichloroethene	ug/L	259	2000	2000	2000	2300	2470	102	110	72-135	7	30											
Trichlorofluoromethane	ug/L	ND	2000	2000	2000	2270	2850	114	142	75-150	22	30											
Vinyl chloride	ug/L	ND	2000	2000	2000	2700	2580	135	129	73-150	5	30											
Xylene (Total)	ug/L	ND	6000	6000	6000	5740	6310	96	105	75-129	9	30											
1,2-Dichloroethane-d4 (S)	%							97	101	75-125													
4-Bromofluorobenzene (S)	%							96	97	75-125													
Toluene-d8 (S)	%							97	97	75-125													

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP
Pace Project No.: 10292044

QC Batch: MSV/29934 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10292044001, 10292044002, 10292044003, 10292044005, 10292044007, 10292044010, 10292044012

METHOD BLANK: 1874353 Matrix: Water
Associated Lab Samples: 10292044001, 10292044002, 10292044003, 10292044005, 10292044007, 10292044010, 10292044012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	1.0	12/30/14 11:34	
1,1,1-Trichloroethane	ug/L	<0.26	1.0	12/30/14 11:34	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	1.0	12/30/14 11:34	
1,1,2-Trichloroethane	ug/L	<0.13	1.0	12/30/14 11:34	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	1.0	12/30/14 11:34	
1,1-Dichloroethane	ug/L	<0.16	1.0	12/30/14 11:34	
1,1-Dichloroethene	ug/L	<0.20	1.0	12/30/14 11:34	
1,1-Dichloropropene	ug/L	<0.50	1.0	12/30/14 11:34	
1,2,3-Trichlorobenzene	ug/L	<0.50	1.0	12/30/14 11:34	
1,2,3-Trichloropropane	ug/L	<1.2	4.0	12/30/14 11:34	
1,2,4-Trichlorobenzene	ug/L	<0.50	1.0	12/30/14 11:34	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	12/30/14 11:34	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	4.0	12/30/14 11:34	
1,2-Dibromoethane (EDB)	ug/L	<0.15	1.0	12/30/14 11:34	
1,2-Dichlorobenzene	ug/L	<0.16	1.0	12/30/14 11:34	
1,2-Dichloroethane	ug/L	<0.13	1.0	12/30/14 11:34	
1,2-Dichloropropane	ug/L	<0.14	4.0	12/30/14 11:34	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	12/30/14 11:34	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	12/30/14 11:34	
1,3-Dichloropropane	ug/L	<0.50	1.0	12/30/14 11:34	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	12/30/14 11:34	
2,2-Dichloropropane	ug/L	<0.17	4.0	12/30/14 11:34	
2-Butanone (MEK)	ug/L	<2.5	5.0	12/30/14 11:34	
2-Chlorotoluene	ug/L	<0.14	1.0	12/30/14 11:34	
4-Chlorotoluene	ug/L	<0.083	1.0	12/30/14 11:34	
4-Methyl-2-pentanone (MIBK)	ug/L	<2.5	5.0	12/30/14 11:34	
Acetone	ug/L	<10.0	20.0	12/30/14 11:34	
Allyl chloride	ug/L	<0.45	4.0	12/30/14 11:34	
Benzene	ug/L	<0.15	1.0	12/30/14 11:34	
Bromobenzene	ug/L	<0.13	1.0	12/30/14 11:34	
Bromochloromethane	ug/L	<0.12	1.0	12/30/14 11:34	
Bromodichloromethane	ug/L	<0.20	1.0	12/30/14 11:34	
Bromoform	ug/L	<2.0	4.0	12/30/14 11:34	
Bromomethane	ug/L	<2.0	10.0	12/30/14 11:34	
Carbon tetrachloride	ug/L	<0.16	1.0	12/30/14 11:34	
Chlorobenzene	ug/L	<0.066	1.0	12/30/14 11:34	
Chloroethane	ug/L	<0.24	1.0	12/30/14 11:34	
Chloroform	ug/L	<0.16	1.0	12/30/14 11:34	
Chloromethane	ug/L	<0.34	4.0	12/30/14 11:34	
cis-1,2-Dichloroethene	ug/L	<0.13	1.0	12/30/14 11:34	
cis-1,3-Dichloropropene	ug/L	<0.13	4.0	12/30/14 11:34	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

METHOD BLANK: 1874353

Matrix: Water

Associated Lab Samples: 10292044001, 10292044002, 10292044003, 10292044005, 10292044007, 10292044010, 10292044012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<0.50	1.0	12/30/14 11:34	
Dibromomethane	ug/L	<0.18	4.0	12/30/14 11:34	
Dichlorodifluoromethane	ug/L	<0.50	4.0	12/30/14 11:34	
Dichlorofluoromethane	ug/L	<0.20	1.0	12/30/14 11:34	
Diethyl ether (Ethyl ether)	ug/L	<0.14	4.0	12/30/14 11:34	
Ethylbenzene	ug/L	<0.16	1.0	12/30/14 11:34	
Hexachloro-1,3-butadiene	ug/L	<0.50	1.0	12/30/14 11:34	
Isopropylbenzene (Cumene)	ug/L	<0.50	1.0	12/30/14 11:34	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	12/30/14 11:34	
Methylene Chloride	ug/L	<2.0	4.0	12/30/14 11:34	
n-Butylbenzene	ug/L	<0.50	1.0	12/30/14 11:34	
n-Propylbenzene	ug/L	<0.50	1.0	12/30/14 11:34	
Naphthalene	ug/L	<2.0	4.0	12/30/14 11:34	
p-Isopropyltoluene	ug/L	<0.50	1.0	12/30/14 11:34	
sec-Butylbenzene	ug/L	<0.50	1.0	12/30/14 11:34	
Styrene	ug/L	<0.063	1.0	12/30/14 11:34	
tert-Butylbenzene	ug/L	<0.50	1.0	12/30/14 11:34	
Tetrachloroethene	ug/L	<0.16	1.0	12/30/14 11:34	
Tetrahydrofuran	ug/L	<2.0	10.0	12/30/14 11:34	
Toluene	ug/L	<0.11	1.0	12/30/14 11:34	
trans-1,2-Dichloroethene	ug/L	<0.23	1.0	12/30/14 11:34	
trans-1,3-Dichloropropene	ug/L	<0.18	4.0	12/30/14 11:34	
Trichloroethene	ug/L	<0.091	0.40	12/30/14 11:34	
Trichlorofluoromethane	ug/L	<0.22	1.0	12/30/14 11:34	
Vinyl chloride	ug/L	<0.20	0.40	12/30/14 11:34	
Xylene (Total)	ug/L	<0.40	3.0	12/30/14 11:34	
1,2-Dichloroethane-d4 (S)	%	82	75-125	12/30/14 11:34	
4-Bromofluorobenzene (S)	%	95	75-125	12/30/14 11:34	
Toluene-d8 (S)	%	91	75-125	12/30/14 11:34	

LABORATORY CONTROL SAMPLE: 1874354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.1	101	75-125	
1,1,1-Trichloroethane	ug/L	20	21.3	106	73-125	
1,1,2,2-Tetrachloroethane	ug/L	20	16.7	84	74-125	
1,1,2-Trichloroethane	ug/L	20	17.9	90	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	25.1	125	56-133	
1,1-Dichloroethane	ug/L	20	17.7	88	75-125	
1,1-Dichloroethene	ug/L	20	20.3	101	70-125	
1,1-Dichloropropene	ug/L	20	19.7	98	73-125	
1,2,3-Trichlorobenzene	ug/L	20	18.9	95	75-125	
1,2,3-Trichloropropane	ug/L	20	18.8	94	75-125	
1,2,4-Trichlorobenzene	ug/L	20	20.2	101	75-125	

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

LABORATORY CONTROL SAMPLE: 1874354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.3	96	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	44.2	88	70-125	
1,2-Dibromoethane (EDB)	ug/L	20	20.3	101	75-125	
1,2-Dichlorobenzene	ug/L	20	19.1	95	75-125	
1,2-Dichloroethane	ug/L	20	17.5	88	75-125	
1,2-Dichloropropane	ug/L	20	18.2	91	75-125	
1,3,5-Trimethylbenzene	ug/L	20	19.8	99	75-125	
1,3-Dichlorobenzene	ug/L	20	20.7	104	75-125	
1,3-Dichloropropane	ug/L	20	17.3	87	75-125	
1,4-Dichlorobenzene	ug/L	20	19.8	99	75-125	
2,2-Dichloropropane	ug/L	20	20.7	103	66-130	
2-Butanone (MEK)	ug/L	100	74.0	74	64-126	
2-Chlorotoluene	ug/L	20	18.2	91	73-125	
4-Chlorotoluene	ug/L	20	18.8	94	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	77.0	77	71-125	
Acetone	ug/L	100	107	107	66-131 IS	
Allyl chloride	ug/L	20	15.3	77	70-129	
Benzene	ug/L	20	18.9	94	75-125	
Bromobenzene	ug/L	20	20.0	100	75-125	
Bromochloromethane	ug/L	20	22.3	111	75-125	
Bromodichloromethane	ug/L	20	17.6	88	75-125	
Bromoform	ug/L	20	19.8	99	70-125	
Bromomethane	ug/L	20	20.4	102	30-150	
Carbon tetrachloride	ug/L	20	21.8	109	68-129	
Chlorobenzene	ug/L	20	19.7	99	75-125	
Chloroethane	ug/L	20	19.5	97	68-133	
Chloroform	ug/L	20	18.3	91	75-125	
Chloromethane	ug/L	20	15.6	78	57-140	
cis-1,2-Dichloroethene	ug/L	20	21.0	105	75-125	
cis-1,3-Dichloropropene	ug/L	20	18.1	91	75-125	
Dibromochloromethane	ug/L	20	20.1	100	75-125	
Dibromomethane	ug/L	20	20.2	101	75-125	
Dichlorodifluoromethane	ug/L	20	24.8	124	50-134	
Dichlorofluoromethane	ug/L	20	18.1	91	74-125	
Diethyl ether (Ethyl ether)	ug/L	20	16.4	82	75-125	
Ethylbenzene	ug/L	20	19.5	97	75-125	
Hexachloro-1,3-butadiene	ug/L	20	20.9	105	74-128	
Isopropylbenzene (Cumene)	ug/L	20	20.6	103	73-125	
Methyl-tert-butyl ether	ug/L	20	17.7	89	75-125	
Methylene Chloride	ug/L	20	18.4	92	75-125	
n-Butylbenzene	ug/L	20	20.7	104	73-125	
n-Propylbenzene	ug/L	20	20.3	101	72-125	
Naphthalene	ug/L	20	18.7	93	74-125	
p-Isopropyltoluene	ug/L	20	20.6	103	74-125	
sec-Butylbenzene	ug/L	20	21.2	106	74-125	
Styrene	ug/L	20	20.8	104	75-125	
tert-Butylbenzene	ug/L	20	21.2	106	74-125	

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

LABORATORY CONTROL SAMPLE: 1874354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	21.9	109	71-125	
Tetrahydrofuran	ug/L	200	256	128	70-125	IS,LO
Toluene	ug/L	20	18.9	95	75-125	
trans-1,2-Dichloroethene	ug/L	20	19.5	97	73-125	
trans-1,3-Dichloropropene	ug/L	20	17.8	89	75-125	
Trichloroethene	ug/L	20	23.3	117	75-125	
Trichlorofluoromethane	ug/L	20	22.1	111	70-128	
Vinyl chloride	ug/L	20	18.3	92	70-130	
Xylene (Total)	ug/L	60	60.9	102	75-125	
1,2-Dichloroethane-d4 (S)	%			82	75-125	
4-Bromofluorobenzene (S)	%			91	75-125	
Toluene-d8 (S)	%			94	75-125	

MATRIX SPIKE SAMPLE: 1876057

Parameter	Units	10293152002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.0	100	74-131	
1,1,1-Trichloroethane	ug/L	ND	20	23.6	118	73-139	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	17.6	88	72-125	
1,1,2-Trichloroethane	ug/L	ND	20	20.4	102	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	28.8	144	68-150	
1,1-Dichloroethane	ug/L	ND	20	20.2	101	73-132	
1,1-Dichloroethene	ug/L	ND	20	26.2	131	71-142	
1,1-Dichloropropene	ug/L	ND	20	22.8	114	73-139	
1,2,3-Trichlorobenzene	ug/L	ND	20	19.3	96	70-129	
1,2,3-Trichloropropane	ug/L	ND	20	18.9	94	74-125	
1,2,4-Trichlorobenzene	ug/L	ND	20	19.8	99	70-129	
1,2,4-Trimethylbenzene	ug/L	ND	20	20.0	100	72-136	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	44.8	90	66-127	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20.8	104	75-125	
1,2-Dichlorobenzene	ug/L	ND	20	19.0	95	75-125	
1,2-Dichloroethane	ug/L	ND	20	19.9	99	68-128	
1,2-Dichloropropane	ug/L	ND	20	20.1	101	74-131	
1,3,5-Trimethylbenzene	ug/L	ND	20	20.4	102	75-131	
1,3-Dichlorobenzene	ug/L	ND	20	20.9	104	73-125	
1,3-Dichloropropane	ug/L	ND	20	18.4	92	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	21.2	106	73-125	
2,2-Dichloropropane	ug/L	ND	20	22.4	112	58-150	
2-Butanone (MEK)	ug/L	ND	100	79.3	79	56-140	
2-Chlorotoluene	ug/L	ND	20	19.0	95	70-130	
4-Chlorotoluene	ug/L	ND	20	20.1	101	73-126	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	81.9	82	69-128	
Acetone	ug/L	ND	100	126	126	57-143	IS
Allyl chloride	ug/L	ND	20	16.6	83	65-146	
Benzene	ug/L	ND	20	21.5	107	75-129	

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

MATRIX SPIKE SAMPLE: 1876057		10293152002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/L	ND	20	20.4	102	74-125	
Bromochloromethane	ug/L	ND	20	25.2	126	75-126	
Bromodichloromethane	ug/L	ND	20	19.6	98	75-128	
Bromoform	ug/L	ND	20	18.6	93	66-130	
Bromomethane	ug/L	ND	20	18.5	93	30-150	
Carbon tetrachloride	ug/L	ND	20	24.2	121	69-148	
Chlorobenzene	ug/L	ND	20	20.7	103	75-125	
Chloroethane	ug/L	ND	20	17.3	86	71-143	
Chloroform	ug/L	ND	20	20.4	102	75-126	
Chloromethane	ug/L	ND	20	14.9	75	55-150	
cis-1,2-Dichloroethene	ug/L	ND	20	24.2	121	75-130	
cis-1,3-Dichloropropene	ug/L	ND	20	19.6	98	72-129	
Dibromochloromethane	ug/L	ND	20	20.3	102	73-129	
Dibromomethane	ug/L	ND	20	21.9	110	75-125	
Dichlorodifluoromethane	ug/L	ND	20	22.5	113	70-150	
Dichlorofluoromethane	ug/L	ND	20	16.8	84	75-135	
Diethyl ether (Ethyl ether)	ug/L	ND	20	18.1	90	72-126	
Ethylbenzene	ug/L	ND	20	20.5	103	75-128	
Hexachloro-1,3-butadiene	ug/L	ND	20	20.9	105	65-144	
Isopropylbenzene (Cumene)	ug/L	ND	20	20.6	103	75-131	
Methyl-tert-butyl ether	ug/L	ND	20	19.1	96	74-128	
Methylene Chloride	ug/L	ND	20	21.2	106	69-125	
n-Butylbenzene	ug/L	ND	20	20.9	104	70-137	
n-Propylbenzene	ug/L	ND	20	21.0	105	72-131	
Naphthalene	ug/L	ND	20	17.5	88	70-132	
p-Isopropyltoluene	ug/L	ND	20	21.4	107	73-133	
sec-Butylbenzene	ug/L	ND	20	21.7	108	74-133	
Styrene	ug/L	ND	20	21.7	109	75-128	
tert-Butylbenzene	ug/L	ND	20	21.8	109	74-130	
Tetrachloroethene	ug/L	ND	20	23.5	118	68-140	
Tetrahydrofuran	ug/L	ND	200	264	132	65-131	IS,M0
Toluene	ug/L	ND	20	21.5	107	75-129	
trans-1,2-Dichloroethene	ug/L	ND	20	24.1	120	70-136	
trans-1,3-Dichloropropene	ug/L	ND	20	19.8	99	71-125	
Trichloroethene	ug/L	ND	20	24.4	122	72-135	
Trichlorofluoromethane	ug/L	ND	20	21.3	107	75-150	
Vinyl chloride	ug/L	ND	20	17.9	89	73-150	
Xylene (Total)	ug/L	ND	60	63.8	106	75-129	
1,2-Dichloroethane-d4 (S)	%				83	75-125	
4-Bromofluorobenzene (S)	%				94	75-125	
Toluene-d8 (S)	%				92	75-125	

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

SAMPLE DUPLICATE: 1876056

Parameter	Units	10293152001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	<0.50		30	
1,1,1-Trichloroethane	ug/L	ND	<0.26		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	<0.50		30	
1,1,2-Trichloroethane	ug/L	ND	<0.13		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	<0.50		30	
1,1-Dichloroethane	ug/L	ND	<0.16		30	
1,1-Dichloroethene	ug/L	ND	<0.20		30	
1,1-Dichloropropene	ug/L	ND	<0.50		30	
1,2,3-Trichlorobenzene	ug/L	ND	<0.50		30	
1,2,3-Trichloropropane	ug/L	ND	<1.2		30	
1,2,4-Trichlorobenzene	ug/L	ND	<0.50		30	
1,2,4-Trimethylbenzene	ug/L	ND	<0.50		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	<2.0		30	
1,2-Dibromoethane (EDB)	ug/L	ND	<0.15		30	
1,2-Dichlorobenzene	ug/L	ND	<0.16		30	
1,2-Dichloroethane	ug/L	ND	<0.13		30	
1,2-Dichloropropane	ug/L	ND	<0.14		30	
1,3,5-Trimethylbenzene	ug/L	ND	<0.50		30	
1,3-Dichlorobenzene	ug/L	ND	<0.50		30	
1,3-Dichloropropane	ug/L	ND	<0.50		30	
1,4-Dichlorobenzene	ug/L	ND	<0.50		30	
2,2-Dichloropropane	ug/L	ND	<0.17		30	
2-Butanone (MEK)	ug/L	ND	<2.5		30	
2-Chlorotoluene	ug/L	ND	<0.14		30	
4-Chlorotoluene	ug/L	ND	<0.083		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	<2.5		30	
Acetone	ug/L	ND	<10.0		30	
Allyl chloride	ug/L	ND	<0.45		30	
Benzene	ug/L	ND	<0.15		30	
Bromobenzene	ug/L	ND	<0.13		30	
Bromochloromethane	ug/L	ND	<0.12		30	
Bromodichloromethane	ug/L	ND	<0.20		30	
Bromoform	ug/L	ND	<2.0		30	
Bromomethane	ug/L	ND	<2.0		30	
Carbon tetrachloride	ug/L	ND	<0.16		30	
Chlorobenzene	ug/L	ND	<0.066		30	
Chloroethane	ug/L	ND	<0.24		30	
Chloroform	ug/L	ND	<0.16		30	
Chloromethane	ug/L	ND	<0.34		30	
cis-1,2-Dichloroethene	ug/L	ND	<0.13		30	
cis-1,3-Dichloropropene	ug/L	ND	<0.13		30	
Dibromochloromethane	ug/L	ND	<0.50		30	
Dibromomethane	ug/L	ND	<0.18		30	
Dichlorodifluoromethane	ug/L	ND	<0.50		30	
Dichlorofluoromethane	ug/L	ND	<0.20		30	
Diethyl ether (Ethyl ether)	ug/L	ND	<0.14		30	
Ethylbenzene	ug/L	ND	<0.16		30	

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP
Pace Project No.: 10292044

SAMPLE DUPLICATE: 1876056

Parameter	Units	10293152001 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	<0.50		30	
Isopropylbenzene (Cumene)	ug/L	ND	<0.50		30	
Methyl-tert-butyl ether	ug/L	ND	<0.17		30	
Methylene Chloride	ug/L	ND	<2.0		30	
n-Butylbenzene	ug/L	ND	<0.50		30	
n-Propylbenzene	ug/L	ND	<0.50		30	
Naphthalene	ug/L	ND	<2.0		30	
p-Isopropyltoluene	ug/L	ND	<0.50		30	
sec-Butylbenzene	ug/L	ND	<0.50		30	
Styrene	ug/L	ND	<0.063		30	
tert-Butylbenzene	ug/L	ND	<0.50		30	
Tetrachloroethene	ug/L	ND	<0.16		30	
Tetrahydrofuran	ug/L	ND	<2.0		30	
Toluene	ug/L	ND	<0.11		30	
trans-1,2-Dichloroethene	ug/L	ND	<0.23		30	
trans-1,3-Dichloropropene	ug/L	ND	<0.18		30	
Trichloroethene	ug/L	ND	<0.091		30	
Trichlorofluoromethane	ug/L	ND	<0.22		30	
Vinyl chloride	ug/L	ND	<0.20		30	
Xylene (Total)	ug/L	ND	<0.40		30	
1,2-Dichloroethane-d4 (S)	%.	83	85	2		
4-Bromofluorobenzene (S)	%.	92	94	2		
Toluene-d8 (S)	%.	93	93	1		

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

QC Batch: MSV/29980 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
 Associated Lab Samples: 10292044016, 10292044018, 10292044019, 10292044020

METHOD BLANK: 1875361 Matrix: Water
 Associated Lab Samples: 10292044016, 10292044018, 10292044019, 10292044020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	1.0	12/30/14 20:04	
1,1,1-Trichloroethane	ug/L	<0.26	1.0	12/30/14 20:04	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	1.0	12/30/14 20:04	
1,1,2-Trichloroethane	ug/L	<0.13	1.0	12/30/14 20:04	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	1.0	12/30/14 20:04	
1,1-Dichloroethane	ug/L	<0.16	1.0	12/30/14 20:04	
1,1-Dichloroethene	ug/L	<0.20	1.0	12/30/14 20:04	
1,1-Dichloropropene	ug/L	<0.50	1.0	12/30/14 20:04	
1,2,3-Trichlorobenzene	ug/L	<0.50	1.0	12/30/14 20:04	
1,2,3-Trichloropropane	ug/L	<1.2	4.0	12/30/14 20:04	
1,2,4-Trichlorobenzene	ug/L	<0.50	1.0	12/30/14 20:04	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	12/30/14 20:04	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	4.0	12/30/14 20:04	
1,2-Dibromoethane (EDB)	ug/L	<0.15	1.0	12/30/14 20:04	
1,2-Dichlorobenzene	ug/L	<0.16	1.0	12/30/14 20:04	
1,2-Dichloroethane	ug/L	<0.13	1.0	12/30/14 20:04	
1,2-Dichloropropane	ug/L	<0.14	4.0	12/30/14 20:04	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	12/30/14 20:04	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	12/30/14 20:04	
1,3-Dichloropropane	ug/L	<0.50	1.0	12/30/14 20:04	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	12/30/14 20:04	
2,2-Dichloropropane	ug/L	<0.17	4.0	12/30/14 20:04	
2-Butanone (MEK)	ug/L	<2.5	5.0	12/30/14 20:04	
2-Chlorotoluene	ug/L	<0.14	1.0	12/30/14 20:04	
4-Chlorotoluene	ug/L	<0.083	1.0	12/30/14 20:04	
4-Methyl-2-pentanone (MIBK)	ug/L	<2.5	5.0	12/30/14 20:04	
Acetone	ug/L	<10.0	20.0	12/30/14 20:04	
Allyl chloride	ug/L	<0.45	4.0	12/30/14 20:04	
Benzene	ug/L	<0.15	1.0	12/30/14 20:04	
Bromobenzene	ug/L	<0.13	1.0	12/30/14 20:04	
Bromochloromethane	ug/L	<0.12	1.0	12/30/14 20:04	
Bromodichloromethane	ug/L	<0.20	1.0	12/30/14 20:04	
Bromoform	ug/L	<2.0	4.0	12/30/14 20:04	
Bromomethane	ug/L	<2.0	10.0	12/30/14 20:04	
Carbon tetrachloride	ug/L	<0.16	1.0	12/30/14 20:04	
Chlorobenzene	ug/L	<0.066	1.0	12/30/14 20:04	
Chloroethane	ug/L	<0.24	1.0	12/30/14 20:04	
Chloroform	ug/L	<0.16	1.0	12/30/14 20:04	
Chloromethane	ug/L	<0.34	4.0	12/30/14 20:04	
cis-1,2-Dichloroethene	ug/L	<0.13	1.0	12/30/14 20:04	
cis-1,3-Dichloropropene	ug/L	<0.13	4.0	12/30/14 20:04	

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP
Pace Project No.: 10292044

METHOD BLANK: 1875361 Matrix: Water
Associated Lab Samples: 10292044016, 10292044018, 10292044019, 10292044020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<0.50	1.0	12/30/14 20:04	
Dibromomethane	ug/L	<0.18	4.0	12/30/14 20:04	
Dichlorodifluoromethane	ug/L	<0.50	4.0	12/30/14 20:04	
Dichlorofluoromethane	ug/L	<0.20	1.0	12/30/14 20:04	
Diethyl ether (Ethyl ether)	ug/L	<0.14	4.0	12/30/14 20:04	
Ethylbenzene	ug/L	<0.16	1.0	12/30/14 20:04	
Hexachloro-1,3-butadiene	ug/L	<0.50	1.0	12/30/14 20:04	
Isopropylbenzene (Cumene)	ug/L	<0.50	1.0	12/30/14 20:04	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	12/30/14 20:04	
Methylene Chloride	ug/L	<2.0	4.0	12/30/14 20:04	
n-Butylbenzene	ug/L	<0.50	1.0	12/30/14 20:04	
n-Propylbenzene	ug/L	<0.50	1.0	12/30/14 20:04	
Naphthalene	ug/L	<2.0	4.0	12/30/14 20:04	
p-Isopropyltoluene	ug/L	<0.50	1.0	12/30/14 20:04	
sec-Butylbenzene	ug/L	<0.50	1.0	12/30/14 20:04	
Styrene	ug/L	<0.063	1.0	12/30/14 20:04	
tert-Butylbenzene	ug/L	<0.50	1.0	12/30/14 20:04	
Tetrachloroethene	ug/L	<0.16	1.0	12/30/14 20:04	
Tetrahydrofuran	ug/L	<2.0	10.0	12/30/14 20:04	
Toluene	ug/L	<0.11	1.0	12/30/14 20:04	
trans-1,2-Dichloroethene	ug/L	<0.23	1.0	12/30/14 20:04	
trans-1,3-Dichloropropene	ug/L	<0.18	4.0	12/30/14 20:04	
Trichloroethene	ug/L	<0.091	0.40	12/30/14 20:04	
Trichlorofluoromethane	ug/L	<0.22	1.0	12/30/14 20:04	
Vinyl chloride	ug/L	<0.20	0.40	12/30/14 20:04	
Xylene (Total)	ug/L	<0.40	3.0	12/30/14 20:04	
1,2-Dichloroethane-d4 (S)	%	83	75-125	12/30/14 20:04	
4-Bromofluorobenzene (S)	%	94	75-125	12/30/14 20:04	
Toluene-d8 (S)	%	91	75-125	12/30/14 20:04	

LABORATORY CONTROL SAMPLE: 1875362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.9	90	75-125	
1,1,1-Trichloroethane	ug/L	20	22.1	111	73-125	
1,1,2,2-Tetrachloroethane	ug/L	20	16.8	84	74-125	
1,1,2-Trichloroethane	ug/L	20	17.8	89	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	24.1	120	56-133	
1,1-Dichloroethane	ug/L	20	19.3	96	75-125	
1,1-Dichloroethene	ug/L	20	22.6	113	70-125	
1,1-Dichloropropene	ug/L	20	19.6	98	73-125	
1,2,3-Trichlorobenzene	ug/L	20	16.7	83	75-125	
1,2,3-Trichloropropane	ug/L	20	18.3	91	75-125	
1,2,4-Trichlorobenzene	ug/L	20	17.8	89	75-125	

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

LABORATORY CONTROL SAMPLE: 1875362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	18.0	90	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	43.3	87	70-125	
1,2-Dibromoethane (EDB)	ug/L	20	18.5	92	75-125	
1,2-Dichlorobenzene	ug/L	20	17.1	86	75-125	
1,2-Dichloroethane	ug/L	20	17.4	87	75-125	
1,2-Dichloropropane	ug/L	20	18.8	94	75-125	
1,3,5-Trimethylbenzene	ug/L	20	18.1	90	75-125	
1,3-Dichlorobenzene	ug/L	20	19.2	96	75-125	
1,3-Dichloropropane	ug/L	20	16.7	84	75-125	
1,4-Dichlorobenzene	ug/L	20	18.2	91	75-125	
2,2-Dichloropropane	ug/L	20	20.7	103	66-130	
2-Butanone (MEK)	ug/L	100	72.6	73	64-126	
2-Chlorotoluene	ug/L	20	16.7	83	73-125	
4-Chlorotoluene	ug/L	20	17.7	89	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	76.1	76	71-125	
Acetone	ug/L	100	96.3	96	66-131	
Allyl chloride	ug/L	20	15.5	78	70-129	
Benzene	ug/L	20	18.8	94	75-125	
Bromobenzene	ug/L	20	19.2	96	75-125	
Bromochloromethane	ug/L	20	22.3	111	75-125	
Bromodichloromethane	ug/L	20	17.1	86	75-125	
Bromoform	ug/L	20	18.1	90	70-125	
Bromomethane	ug/L	20	27.5	138	30-150	
Carbon tetrachloride	ug/L	20	22.3	112	68-129	
Chlorobenzene	ug/L	20	18.9	95	75-125	
Chloroethane	ug/L	20	19.5	97	68-133	
Chloroform	ug/L	20	18.4	92	75-125	
Chloromethane	ug/L	20	18.6	93	57-140	
cis-1,2-Dichloroethene	ug/L	20	20.5	103	75-125	
cis-1,3-Dichloropropene	ug/L	20	17.0	85	75-125	
Dibromochloromethane	ug/L	20	18.9	95	75-125	
Dibromomethane	ug/L	20	19.4	97	75-125	
Dichlorodifluoromethane	ug/L	20	26.7	133	50-134	
Dichlorofluoromethane	ug/L	20	19.4	97	74-125	
Diethyl ether (Ethyl ether)	ug/L	20	16.7	83	75-125	
Ethylbenzene	ug/L	20	18.4	92	75-125	
Hexachloro-1,3-butadiene	ug/L	20	20.9	105	74-128	
Isopropylbenzene (Cumene)	ug/L	20	18.2	91	73-125	
Methyl-tert-butyl ether	ug/L	20	18.0	90	75-125	
Methylene Chloride	ug/L	20	19.0	95	75-125	
n-Butylbenzene	ug/L	20	18.6	93	73-125	
n-Propylbenzene	ug/L	20	18.5	93	72-125	
Naphthalene	ug/L	20	15.5	78	74-125	
p-Isopropyltoluene	ug/L	20	19.4	97	74-125	
sec-Butylbenzene	ug/L	20	19.2	96	74-125	
Styrene	ug/L	20	19.5	97	75-125	
tert-Butylbenzene	ug/L	20	19.3	97	74-125	

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

LABORATORY CONTROL SAMPLE: 1875362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	20.7	103	71-125	
Tetrahydrofuran	ug/L	200	233	117	70-125	
Toluene	ug/L	20	18.1	90	75-125	
trans-1,2-Dichloroethene	ug/L	20	21.2	106	73-125	
trans-1,3-Dichloropropene	ug/L	20	16.6	83	75-125	
Trichloroethene	ug/L	20	22.0	110	75-125	
Trichlorofluoromethane	ug/L	20	23.5	117	70-128	
Vinyl chloride	ug/L	20	20.0	100	70-130	
Xylene (Total)	ug/L	60	55.6	93	75-125	
1,2-Dichloroethane-d4 (S)	%			90	75-125	
4-Bromofluorobenzene (S)	%			93	75-125	
Toluene-d8 (S)	%			92	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1875363 1875364

Parameter	Units	10292458001		MSD		MSD		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.3	20.7	97	104	74-131	7	30		
1,1,1-Trichloroethane	ug/L	ND	20	20	23.4	23.2	117	116	73-139	1	30		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.0	17.3	90	87	72-125	4	30		
1,1,2-Trichloroethane	ug/L	ND	20	20	19.1	19.0	95	95	75-125	0	30		
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	26.9	26.7	134	133	68-150	1	30		
1,1-Dichloroethane	ug/L	ND	20	20	18.7	19.2	93	96	73-132	3	30		
1,1-Dichloroethene	ug/L	ND	20	20	23.5	23.8	118	119	71-142	1	30		
1,1-Dichloropropene	ug/L	ND	20	20	21.8	22.1	109	111	73-139	1	30		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.2	19.5	101	98	70-129	4	30		
1,2,3-Trichloropropane	ug/L	ND	20	20	20.3	18.1	102	90	74-125	12	30		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.7	19.3	98	96	70-129	2	30		
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.8	20.3	104	102	72-136	2	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	44.7	46.6	89	93	66-127	4	30		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.5	21.1	103	105	75-125	3	30		
1,2-Dichlorobenzene	ug/L	ND	20	20	20.3	20.4	101	102	75-125	1	30		
1,2-Dichloroethane	ug/L	ND	20	20	18.6	18.5	93	92	68-128	1	30		
1,2-Dichloropropane	ug/L	ND	20	20	19.0	18.5	95	93	74-131	3	30		
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.7	20.5	104	102	75-131	1	30		
1,3-Dichlorobenzene	ug/L	ND	20	20	22.2	21.5	111	108	73-125	3	30		
1,3-Dichloropropane	ug/L	ND	20	20	18.1	18.2	91	91	75-125	1	30		
1,4-Dichlorobenzene	ug/L	ND	20	20	20.8	20.4	104	102	73-125	2	30		
2,2-Dichloropropane	ug/L	ND	20	20	21.1	20.6	106	103	58-150	2	30		
2-Butanone (MEK)	ug/L	ND	100	100	73.7	76.0	74	76	56-140	3	30		
2-Chlorotoluene	ug/L	ND	20	20	19.8	19.0	99	95	70-130	4	30		
4-Chlorotoluene	ug/L	ND	20	20	20.7	19.9	103	100	73-126	4	30		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	77.9	79.6	78	80	69-128	2	30		
Acetone	ug/L	ND	100	100	114	115	114	115	57-143	1	30		

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1875363 1875364												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		10292458001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Allyl chloride	ug/L	ND	20	20	15.9	16.4	80	82	65-146	3	30	
Benzene	ug/L	ND	20	20	19.4	20.3	97	101	75-129	4	30	
Bromobenzene	ug/L	ND	20	20	20.5	21.0	102	105	74-125	2	30	
Bromochloromethane	ug/L	ND	20	20	22.1	22.4	110	112	75-126	1	30	
Bromodichloromethane	ug/L	ND	20	20	18.4	19.1	92	95	75-128	3	30	
Bromoform	ug/L	ND	20	20	18.8	19.2	94	96	66-130	2	30	
Bromomethane	ug/L	ND	20	20	30.6	32.5	153	162	30-150	6	30	M1
Carbon tetrachloride	ug/L	ND	20	20	22.4	22.9	112	115	69-148	2	30	
Chlorobenzene	ug/L	ND	20	20	20.2	21.0	101	105	75-125	4	30	
Chloroethane	ug/L	ND	20	20	21.1	20.6	106	103	71-143	2	30	
Chloroform	ug/L	ND	20	20	19.6	19.1	98	95	75-126	3	30	
Chloromethane	ug/L	ND	20	20	18.7	18.5	93	92	55-150	1	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.6	23.1	113	116	75-130	2	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.2	18.5	96	93	72-129	4	30	
Dibromochloromethane	ug/L	ND	20	20	20.1	20.1	101	101	73-129	0	30	
Dibromomethane	ug/L	ND	20	20	21.0	20.4	105	102	75-125	3	30	
Dichlorodifluoromethane	ug/L	ND	20	20	28.0	27.6	140	138	70-150	1	30	
Dichlorofluoromethane	ug/L	ND	20	20	19.9	20.3	99	102	75-135	2	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	16.6	17.2	83	86	72-126	4	30	
Ethylbenzene	ug/L	ND	20	20	20.2	19.9	101	99	75-128	2	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.7	21.5	113	108	65-144	5	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.7	21.5	103	108	75-131	4	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.4	18.6	92	93	74-128	1	30	
Methylene Chloride	ug/L	ND	20	20	20.1	18.9	100	95	69-125	6	30	
n-Butylbenzene	ug/L	ND	20	20	21.6	21.0	108	105	70-137	3	30	
n-Propylbenzene	ug/L	ND	20	20	21.5	20.4	107	102	72-131	5	30	
Naphthalene	ug/L	ND	20	20	18.2	18.7	91	93	70-132	3	30	
p-Isopropyltoluene	ug/L	ND	20	20	22.3	22.0	111	110	73-133	1	30	
sec-Butylbenzene	ug/L	ND	20	20	22.3	22.0	112	110	74-133	1	30	
Styrene	ug/L	ND	20	20	20.7	21.9	104	109	75-128	5	30	
tert-Butylbenzene	ug/L	ND	20	20	23.0	22.3	115	112	74-130	3	30	
Tetrachloroethene	ug/L	ND	20	20	23.1	22.9	116	115	68-140	1	30	
Tetrahydrofuran	ug/L	ND	200	200	256	259	128	130	65-131	1	30	
Toluene	ug/L	ND	20	20	19.8	20.7	99	104	75-129	4	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.5	22.9	113	115	70-136	2	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.3	18.6	87	93	71-125	7	30	
Trichloroethene	ug/L	ND	20	20	23.4	23.5	117	118	72-135	0	30	
Trichlorofluoromethane	ug/L	ND	20	20	25.0	25.6	125	128	75-150	2	30	
Vinyl chloride	ug/L	ND	20	20	21.2	21.4	106	107	73-150	1	30	
Xylene (Total)	ug/L	ND	60	60	61.0	62.6	102	104	75-129	3	30	
1,2-Dichloroethane-d4 (S)	%						83	83	75-125			
4-Bromofluorobenzene (S)	%						97	93	75-125			
Toluene-d8 (S)	%						92	94	75-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP
Pace Project No.: 10292044

QC Batch: MSV/29990 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10292044013, 10292044014, 10292044015, 10292044017, 10292044021

METHOD BLANK: 1875969 Matrix: Water
Associated Lab Samples: 10292044013, 10292044014, 10292044015, 10292044017, 10292044021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	1.0	12/31/14 10:29	
1,1,1-Trichloroethane	ug/L	<0.26	1.0	12/31/14 10:29	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	1.0	12/31/14 10:29	
1,1,2-Trichloroethane	ug/L	<0.13	1.0	12/31/14 10:29	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	1.0	12/31/14 10:29	
1,1-Dichloroethane	ug/L	<0.16	1.0	12/31/14 10:29	
1,1-Dichloroethene	ug/L	<0.20	1.0	12/31/14 10:29	
1,1-Dichloropropene	ug/L	<0.50	1.0	12/31/14 10:29	
1,2,3-Trichlorobenzene	ug/L	<0.50	1.0	12/31/14 10:29	
1,2,3-Trichloropropane	ug/L	<1.2	4.0	12/31/14 10:29	
1,2,4-Trichlorobenzene	ug/L	<0.50	1.0	12/31/14 10:29	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	12/31/14 10:29	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	4.0	12/31/14 10:29	
1,2-Dibromoethane (EDB)	ug/L	<0.15	1.0	12/31/14 10:29	
1,2-Dichlorobenzene	ug/L	<0.16	1.0	12/31/14 10:29	
1,2-Dichloroethane	ug/L	<0.13	1.0	12/31/14 10:29	
1,2-Dichloropropane	ug/L	<0.14	4.0	12/31/14 10:29	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	12/31/14 10:29	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	12/31/14 10:29	
1,3-Dichloropropane	ug/L	<0.50	1.0	12/31/14 10:29	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	12/31/14 10:29	
2,2-Dichloropropane	ug/L	<0.17	4.0	12/31/14 10:29	
2-Butanone (MEK)	ug/L	<2.5	5.0	12/31/14 10:29	
2-Chlorotoluene	ug/L	<0.14	1.0	12/31/14 10:29	
4-Chlorotoluene	ug/L	<0.083	1.0	12/31/14 10:29	
4-Methyl-2-pentanone (MIBK)	ug/L	<2.5	5.0	12/31/14 10:29	
Acetone	ug/L	<10.0	20.0	12/31/14 10:29	
Allyl chloride	ug/L	<0.45	4.0	12/31/14 10:29	
Benzene	ug/L	<0.15	1.0	12/31/14 10:29	
Bromobenzene	ug/L	<0.13	1.0	12/31/14 10:29	
Bromochloromethane	ug/L	<0.12	1.0	12/31/14 10:29	
Bromodichloromethane	ug/L	<0.20	1.0	12/31/14 10:29	
Bromoform	ug/L	<2.0	4.0	12/31/14 10:29	
Bromomethane	ug/L	<2.0	10.0	12/31/14 10:29	
Carbon tetrachloride	ug/L	<0.16	1.0	12/31/14 10:29	
Chlorobenzene	ug/L	<0.066	1.0	12/31/14 10:29	
Chloroethane	ug/L	<0.24	1.0	12/31/14 10:29	
Chloroform	ug/L	<0.16	1.0	12/31/14 10:29	
Chloromethane	ug/L	<0.34	4.0	12/31/14 10:29	
cis-1,2-Dichloroethene	ug/L	<0.13	1.0	12/31/14 10:29	
cis-1,3-Dichloropropene	ug/L	<0.13	4.0	12/31/14 10:29	

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

METHOD BLANK: 1875969

Matrix: Water

Associated Lab Samples: 10292044013, 10292044014, 10292044015, 10292044017, 10292044021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<0.50	1.0	12/31/14 10:29	
Dibromomethane	ug/L	<0.18	4.0	12/31/14 10:29	
Dichlorodifluoromethane	ug/L	<0.50	4.0	12/31/14 10:29	
Dichlorofluoromethane	ug/L	<0.20	1.0	12/31/14 10:29	
Diethyl ether (Ethyl ether)	ug/L	<0.14	4.0	12/31/14 10:29	
Ethylbenzene	ug/L	<0.16	1.0	12/31/14 10:29	
Hexachloro-1,3-butadiene	ug/L	<0.50	1.0	12/31/14 10:29	
Isopropylbenzene (Cumene)	ug/L	<0.50	1.0	12/31/14 10:29	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	12/31/14 10:29	
Methylene Chloride	ug/L	<2.0	4.0	12/31/14 10:29	
n-Butylbenzene	ug/L	<0.50	1.0	12/31/14 10:29	
n-Propylbenzene	ug/L	<0.50	1.0	12/31/14 10:29	
Naphthalene	ug/L	<2.0	4.0	12/31/14 10:29	
p-Isopropyltoluene	ug/L	<0.50	1.0	12/31/14 10:29	
sec-Butylbenzene	ug/L	<0.50	1.0	12/31/14 10:29	
Styrene	ug/L	<0.063	1.0	12/31/14 10:29	
tert-Butylbenzene	ug/L	<0.50	1.0	12/31/14 10:29	
Tetrachloroethene	ug/L	<0.16	1.0	12/31/14 10:29	
Tetrahydrofuran	ug/L	<2.0	10.0	12/31/14 10:29	
Toluene	ug/L	<0.11	1.0	12/31/14 10:29	
trans-1,2-Dichloroethene	ug/L	<0.23	1.0	12/31/14 10:29	
trans-1,3-Dichloropropene	ug/L	<0.18	4.0	12/31/14 10:29	
Trichloroethene	ug/L	<0.091	0.40	12/31/14 10:29	
Trichlorofluoromethane	ug/L	<0.22	1.0	12/31/14 10:29	
Vinyl chloride	ug/L	<0.20	0.40	12/31/14 10:29	
Xylene (Total)	ug/L	<0.40	3.0	12/31/14 10:29	
1,2-Dichloroethane-d4 (S)	%	82	75-125	12/31/14 10:29	
4-Bromofluorobenzene (S)	%	94	75-125	12/31/14 10:29	
Toluene-d8 (S)	%	92	75-125	12/31/14 10:29	

LABORATORY CONTROL SAMPLE: 1875970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.7	94	75-125	
1,1,1-Trichloroethane	ug/L	20	21.7	109	73-125	
1,1,2,2-Tetrachloroethane	ug/L	20	17.0	85	74-125	
1,1,2-Trichloroethane	ug/L	20	18.7	94	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	25.6	128	56-133	
1,1-Dichloroethane	ug/L	20	19.0	95	75-125	
1,1-Dichloroethene	ug/L	20	21.6	108	70-125	
1,1-Dichloropropene	ug/L	20	20.4	102	73-125	
1,2,3-Trichlorobenzene	ug/L	20	19.7	99	75-125	
1,2,3-Trichloropropane	ug/L	20	18.1	91	75-125	
1,2,4-Trichlorobenzene	ug/L	20	19.1	96	75-125	

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

LABORATORY CONTROL SAMPLE: 1875970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.0	95	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	43.1	86	70-125	
1,2-Dibromoethane (EDB)	ug/L	20	20.5	103	75-125	
1,2-Dichlorobenzene	ug/L	20	19.3	96	75-125	
1,2-Dichloroethane	ug/L	20	18.8	94	75-125	
1,2-Dichloropropane	ug/L	20	18.9	95	75-125	
1,3,5-Trimethylbenzene	ug/L	20	19.9	99	75-125	
1,3-Dichlorobenzene	ug/L	20	20.6	103	75-125	
1,3-Dichloropropane	ug/L	20	17.5	87	75-125	
1,4-Dichlorobenzene	ug/L	20	19.6	98	75-125	
2,2-Dichloropropane	ug/L	20	20.6	103	66-130	
2-Butanone (MEK)	ug/L	100	73.8	74	64-126	
2-Chlorotoluene	ug/L	20	18.9	95	73-125	
4-Chlorotoluene	ug/L	20	19.5	98	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	79.3	79	71-125	
Acetone	ug/L	100	113	113	66-131	
Allyl chloride	ug/L	20	16.5	83	70-129	
Benzene	ug/L	20	19.1	96	75-125	
Bromobenzene	ug/L	20	19.8	99	75-125	
Bromochloromethane	ug/L	20	23.3	117	75-125	
Bromodichloromethane	ug/L	20	18.1	90	75-125	
Bromoform	ug/L	20	18.3	91	70-125	
Bromomethane	ug/L	20	27.7	139	30-150	
Carbon tetrachloride	ug/L	20	21.5	108	68-129	
Chlorobenzene	ug/L	20	19.5	97	75-125	
Chloroethane	ug/L	20	19.1	95	68-133	
Chloroform	ug/L	20	19.7	99	75-125	
Chloromethane	ug/L	20	17.8	89	57-140	
cis-1,2-Dichloroethene	ug/L	20	20.8	104	75-125	
cis-1,3-Dichloropropene	ug/L	20	18.4	92	75-125	
Dibromochloromethane	ug/L	20	19.6	98	75-125	
Dibromomethane	ug/L	20	19.8	99	75-125	
Dichlorodifluoromethane	ug/L	20	23.9	119	50-134	
Dichlorofluoromethane	ug/L	20	20.1	100	74-125	
Diethyl ether (Ethyl ether)	ug/L	20	17.5	87	75-125	
Ethylbenzene	ug/L	20	18.7	94	75-125	
Hexachloro-1,3-butadiene	ug/L	20	20.3	102	74-128	
Isopropylbenzene (Cumene)	ug/L	20	19.8	99	73-125	
Methyl-tert-butyl ether	ug/L	20	18.3	91	75-125	
Methylene Chloride	ug/L	20	19.6	98	75-125	
n-Butylbenzene	ug/L	20	20.2	101	73-125	
n-Propylbenzene	ug/L	20	19.9	99	72-125	
Naphthalene	ug/L	20	17.2	86	74-125	
p-Isopropyltoluene	ug/L	20	20.6	103	74-125	
sec-Butylbenzene	ug/L	20	21.0	105	74-125	
Styrene	ug/L	20	20.6	103	75-125	
tert-Butylbenzene	ug/L	20	21.5	107	74-125	

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP
Pace Project No.: 10292044

LABORATORY CONTROL SAMPLE: 1875970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	20.1	101	71-125	
Tetrahydrofuran	ug/L	200	240	120	70-125	
Toluene	ug/L	20	19.3	97	75-125	
trans-1,2-Dichloroethene	ug/L	20	21.5	108	73-125	
trans-1,3-Dichloropropene	ug/L	20	18.7	94	75-125	
Trichloroethene	ug/L	20	21.6	108	75-125	
Trichlorofluoromethane	ug/L	20	24.1	120	70-128	
Vinyl chloride	ug/L	20	20.1	100	70-130	
Xylene (Total)	ug/L	60	60.0	100	75-125	
1,2-Dichloroethane-d4 (S)	%			84	75-125	
4-Bromofluorobenzene (S)	%			96	75-125	
Toluene-d8 (S)	%			96	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1876975 1876976

Parameter	Units	10292044017		MSD		MSD		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	<250	10000	10000	9330	9610	93	96	74-131	3	30		
1,1,1-Trichloroethane	ug/L	<132	10000	10000	10800	10500	108	105	73-139	4	30		
1,1,2,2-Tetrachloroethane	ug/L	<250	10000	10000	8670	8490	87	85	72-125	2	30		
1,1,2-Trichloroethane	ug/L	<63.5	10000	10000	9320	9690	93	97	75-125	4	30		
1,1,2-Trichlorotrifluoroethane	ug/L	<250	10000	10000	11800	11200	118	112	68-150	5	30		
1,1-Dichloroethane	ug/L	<79.5	10000	10000	9830	9070	98	91	73-132	8	30		
1,1-Dichloroethene	ug/L	<99.5	10000	10000	11000	10800	110	108	71-142	2	30		
1,1-Dichloropropene	ug/L	<250	10000	10000	9780	9650	98	97	73-139	1	30		
1,2,3-Trichlorobenzene	ug/L	<250	10000	10000	9760	9850	98	99	70-129	1	30		
1,2,3-Trichloropropane	ug/L	<610	10000	10000	9530	9710	95	97	74-125	2	30		
1,2,4-Trichlorobenzene	ug/L	<250	10000	10000	9850	9990	99	100	70-129	1	30		
1,2,4-Trimethylbenzene	ug/L	494J	10000	10000	10000	10100	95	96	72-136	1	30		
1,2-Dibromo-3-chloropropane	ug/L	<1000	25000	25000	23200	23200	93	93	66-127	0	30		
1,2-Dibromoethane (EDB)	ug/L	<74.0	10000	10000	10300	10100	103	101	75-125	2	30		
1,2-Dichlorobenzene	ug/L	<80.0	10000	10000	9530	9670	95	97	75-125	1	30		
1,2-Dichloroethane	ug/L	<65.5	10000	10000	9480	9030	95	90	68-128	5	30		
1,2-Dichloropropane	ug/L	<71.0	10000	10000	9430	9310	94	93	74-131	1	30		
1,3,5-Trimethylbenzene	ug/L	286J	10000	10000	9970	9780	97	95	75-131	2	30		
1,3-Dichlorobenzene	ug/L	<250	10000	10000	10400	10400	104	104	73-125	0	30		
1,3-Dichloropropane	ug/L	<250	10000	10000	9280	9320	93	93	75-125	0	30		
1,4-Dichlorobenzene	ug/L	<250	10000	10000	10000	10200	100	102	73-125	2	30		
2,2-Dichloropropane	ug/L	<87.0	10000	10000	9700	9280	97	93	58-150	4	30		
2-Butanone (MEK)	ug/L	<1250	50000	50000	40100	41100	80	82	56-140	2	30		
2-Chlorotoluene	ug/L	<69.0	10000	10000	9230	8890	92	89	70-130	4	30		
4-Chlorotoluene	ug/L	<41.5	10000	10000	9360	9350	94	93	73-126	0	30		
4-Methyl-2-pentanone (MIBK)	ug/L	<1250	50000	50000	41400	42300	83	85	69-128	2	30		
Acetone	ug/L	<5000	50000	50000	54700	55500	109	111	57-143	2	30		

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1876975			1876976							
Parameter	Units	10292044017	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD		
Allyl chloride	ug/L	<223	10000	10000	7990	7560	80	76	65-146	5	30	
Benzene	ug/L	64400	10000	10000	76000	72400	116	80	75-129	5	30	
Bromobenzene	ug/L	<66.0	10000	10000	9490	9240	95	92	74-125	3	30	
Bromochloromethane	ug/L	<57.5	10000	10000	11100	11500	111	115	75-126	3	30	
Bromodichloromethane	ug/L	<101	10000	10000	9100	9130	91	91	75-128	0	30	
Bromoform	ug/L	<1000	10000	10000	9310	9580	93	96	66-130	3	30	
Bromomethane	ug/L	<1000	10000	10000	9330	12800	93	128	30-150	31	30 R1	
Carbon tetrachloride	ug/L	<79.5	10000	10000	10700	10700	107	107	69-148	0	30	
Chlorobenzene	ug/L	<33.0	10000	10000	9690	9750	97	97	75-125	1	30	
Chloroethane	ug/L	<120	10000	10000	9580	9430	96	94	71-143	2	30	
Chloroform	ug/L	<80.5	10000	10000	9730	9350	97	93	75-126	4	30	
Chloromethane	ug/L	<170	10000	10000	8670	8460	87	85	55-150	2	30	
cis-1,2-Dichloroethene	ug/L	<66.5	10000	10000	11300	10700	113	107	75-130	5	30	
cis-1,3-Dichloropropene	ug/L	<63.5	10000	10000	9190	8910	92	89	72-129	3	30	
Dibromochloromethane	ug/L	<250	10000	10000	9380	10400	94	104	73-129	11	30	
Dibromomethane	ug/L	<92.5	10000	10000	10800	10400	108	104	75-125	4	30	
Dichlorodifluoromethane	ug/L	<250	10000	10000	11600	11000	116	110	70-150	5	30	
Dichlorofluoromethane	ug/L	<101	10000	10000	9870	9430	99	94	75-135	5	30	
Diethyl ether (Ethyl ether)	ug/L	<70.5	10000	10000	8420	8800	84	88	72-126	4	30	
Ethylbenzene	ug/L	811	10000	10000	10200	10300	93	94	75-128	1	30	
Hexachloro-1,3-butadiene	ug/L	<250	10000	10000	9660	9710	97	97	65-144	1	30	
Isopropylbenzene (Cumene)	ug/L	<250	10000	10000	9730	9750	97	97	75-131	0	30	
Methyl-tert-butyl ether	ug/L	<84.5	10000	10000	9420	9640	94	96	74-128	2	30	
Methylene Chloride	ug/L	<1000	10000	10000	9690	9520	97	95	69-125	2	30	
n-Butylbenzene	ug/L	<250	10000	10000	9670	9790	97	98	70-137	1	30	
n-Propylbenzene	ug/L	<250	10000	10000	9510	9410	95	94	72-131	1	30	
Naphthalene	ug/L	<1000	10000	10000	9480	10200	88	95	70-132	7	30	
p-Isopropyltoluene	ug/L	<250	10000	10000	10200	9900	102	99	73-133	3	30	
sec-Butylbenzene	ug/L	<250	10000	10000	9830	9790	98	98	74-133	0	30	
Styrene	ug/L	3590	10000	10000	14100	14000	105	104	75-128	1	30	
tert-Butylbenzene	ug/L	<250	10000	10000	10400	10100	104	101	74-130	3	30	
Tetrachloroethene	ug/L	<78.5	10000	10000	10400	9700	104	97	68-140	7	30	
Tetrahydrofuran	ug/L	<995	100000	100000	128000	130000	128	130	65-131	2	30	
Toluene	ug/L	50800	10000	10000	60800	59400	99	86	75-129	2	30	
trans-1,2-Dichloroethene	ug/L	<116	10000	10000	10600	10200	106	102	70-136	3	30	
trans-1,3-Dichloropropene	ug/L	<92.5	10000	10000	9150	9160	91	92	71-125	0	30	
Trichloroethene	ug/L	<45.5	10000	10000	11100	10800	111	108	72-135	3	30	
Trichlorofluoromethane	ug/L	<108	10000	10000	11900	11300	119	113	75-150	6	30	
Vinyl chloride	ug/L	<97.5	10000	10000	9800	8930	98	89	73-150	9	30	
Xylene (Total)	ug/L	15400	30000	30000	45800	44700	101	98	75-129	2	30	
1,2-Dichloroethane-d4 (S)	%						86	87	75-125			
4-Bromofluorobenzene (S)	%						93	93	75-125			
Toluene-d8 (S)	%						93	92	75-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

QC Batch: OEXT/27688 Analysis Method: EPA 8270 by HVI
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH High Volume Injection
 Associated Lab Samples: 10292044001, 10292044002, 10292044003, 10292044004, 10292044005, 10292044006, 10292044007, 10292044008, 10292044009, 10292044010, 10292044011, 10292044012, 10292044013, 10292044014, 10292044015

METHOD BLANK: 1869907 Matrix: Water

Associated Lab Samples: 10292044001, 10292044002, 10292044003, 10292044004, 10292044005, 10292044006, 10292044007, 10292044008, 10292044009, 10292044010, 10292044011, 10292044012, 10292044013, 10292044014, 10292044015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0045	0.040	12/30/14 18:20	
2-Chloronaphthalene	ug/L	<0.0029	0.040	12/30/14 18:20	
2-Methylnaphthalene	ug/L	<0.0081	0.040	12/30/14 18:20	
Acenaphthene	ug/L	<0.0046	0.040	12/30/14 18:20	
Acenaphthylene	ug/L	<0.0021	0.040	12/30/14 18:20	
Anthracene	ug/L	<0.0024	0.040	12/30/14 18:20	
Benzo(a)anthracene	ug/L	<0.020	0.040	12/30/14 18:20	
Benzo(a)pyrene	ug/L	<0.0030	0.040	12/30/14 18:20	
Benzo(b)fluoranthene	ug/L	<0.0022	0.040	12/30/14 18:20	
Benzo(e)pyrene	ug/L	<0.0030	0.040	12/30/14 18:20	
Benzo(g,h,i)perylene	ug/L	<0.0025	0.040	12/30/14 18:20	
Benzo(k)fluoranthene	ug/L	<0.020	0.040	12/30/14 18:20	
Chrysene	ug/L	<0.020	0.040	12/30/14 18:20	
Dibenz(a,h)anthracene	ug/L	<0.0044	0.040	12/30/14 18:20	
Dibenzofuran	ug/L	<0.0025	0.040	12/30/14 18:20	
Fluoranthene	ug/L	<0.0031	0.040	12/30/14 18:20	
Fluorene	ug/L	<0.0021	0.040	12/30/14 18:20	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0023	0.040	12/30/14 18:20	
Naphthalene	ug/L	<0.014	0.16	12/30/14 18:20	
Phenanthrene	ug/L	<0.0029	0.040	12/30/14 18:20	
Pyrene	ug/L	<0.0073	0.040	12/30/14 18:20	
2-Fluorobiphenyl (S)	%	69	37-125	12/30/14 18:20	
p-Terphenyl-d14 (S)	%	89	43-125	12/30/14 18:20	

LABORATORY CONTROL SAMPLE & LCSD: 1869908

1869909

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	1	0.60	0.67	60	67	30-129	11	20	
2-Chloronaphthalene	ug/L	1	0.59	0.54	59	54	30-126	8	20	
2-Methylnaphthalene	ug/L	1	0.56	0.66	56	66	30-137	17	20	
Acenaphthene	ug/L	1	0.74	0.73	74	73	30-125	2	20	
Acenaphthylene	ug/L	1	0.78	0.76	78	76	30-126	2	20	
Anthracene	ug/L	1	0.91	0.91	91	91	30-125	0	20	
Benzo(a)anthracene	ug/L	1	0.86	0.86	86	86	33-125	0	20	
Benzo(a)pyrene	ug/L	1	0.86	0.86	86	86	30-125	1	20	
Benzo(b)fluoranthene	ug/L	1	0.85	0.83	85	83	37-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

LABORATORY CONTROL SAMPLE & LCSD: 1869908			1869909							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzo(e)pyrene	ug/L	1	0.82	0.81	82	81	35-125	2	20	
Benzo(g,h,i)perylene	ug/L	1	0.52	0.45	52	45	30-125	15	20	
Benzo(k)fluoranthene	ug/L	1	0.82	0.84	82	84	30-127	3	20	
Chrysene	ug/L	1	0.81	0.82	81	82	32-125	1	20	
Dibenz(a,h)anthracene	ug/L	1	0.45	0.41	45	41	30-125	8	20	
Dibenzofuran	ug/L	1	0.79	0.71	79	71	30-125	10	20	
Fluoranthene	ug/L	1	0.87	0.84	87	84	33-125	3	20	
Fluorene	ug/L	1	0.83	0.79	83	79	30-125	4	20	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.72	0.70	72	70	30-125	3	20	
Naphthalene	ug/L	1	0.63	0.63	63	63	30-128	0	20	
Phenanthrene	ug/L	1	0.75	0.75	75	75	30-125	0	20	
Pyrene	ug/L	1	0.85	0.83	85	83	32-125	2	20	
2-Fluorobiphenyl (S)	%				64	65	37-125			
p-Terphenyl-d14 (S)	%				96	91	43-125			

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP
Pace Project No.: 10292044

QC Batch: OEXT/27717 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH High Volume Injection
Associated Lab Samples: 10292044016, 10292044017, 10292044018, 10292044019, 10292044020

METHOD BLANK: 1872750 Matrix: Water
Associated Lab Samples: 10292044016, 10292044017, 10292044018, 10292044019, 10292044020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0045	0.040	12/31/14 00:32	
2-Chloronaphthalene	ug/L	<0.0029	0.040	12/31/14 00:32	
2-Methylnaphthalene	ug/L	<0.0081	0.040	12/31/14 00:32	
Acenaphthene	ug/L	<0.0046	0.040	12/31/14 00:32	
Acenaphthylene	ug/L	<0.0021	0.040	12/31/14 00:32	
Anthracene	ug/L	<0.0024	0.040	12/31/14 00:32	
Benzo(a)anthracene	ug/L	<0.020	0.040	12/31/14 00:32	
Benzo(a)pyrene	ug/L	<0.0030	0.040	12/31/14 00:32	
Benzo(b)fluoranthene	ug/L	0.0023J	0.040	12/31/14 00:32	
Benzo(e)pyrene	ug/L	<0.0030	0.040	12/31/14 00:32	
Benzo(g,h,i)perylene	ug/L	0.0032J	0.040	12/31/14 00:32	
Benzo(k)fluoranthene	ug/L	<0.020	0.040	12/31/14 00:32	
Chrysene	ug/L	<0.020	0.040	12/31/14 00:32	
Dibenz(a,h)anthracene	ug/L	<0.0044	0.040	12/31/14 00:32	
Dibenzofuran	ug/L	<0.0025	0.040	12/31/14 00:32	
Fluoranthene	ug/L	<0.0031	0.040	12/31/14 00:32	
Fluorene	ug/L	<0.0021	0.040	12/31/14 00:32	
Indeno(1,2,3-cd)pyrene	ug/L	0.0031J	0.040	12/31/14 00:32	
Naphthalene	ug/L	0.016J	0.16	12/31/14 00:32	
Phenanthrene	ug/L	0.0044J	0.040	12/31/14 00:32	
Pyrene	ug/L	<0.0073	0.040	12/31/14 00:32	
2-Fluorobiphenyl (S)	%	44	37-125	12/31/14 00:32	
p-Terphenyl-d14 (S)	%	43	43-125	12/31/14 00:32	

Parameter	Units	1872751		1872752		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	% Rec				
1-Methylnaphthalene	ug/L	1	0.38	0.66	38	66	30-129	53	20 R1
2-Chloronaphthalene	ug/L	1	0.34	0.58	34	58	30-126	53	20 R1
2-Methylnaphthalene	ug/L	1	0.39	0.70	39	70	30-137	57	20 R1
Acenaphthene	ug/L	1	0.42	0.69	42	69	30-125	48	20 R1
Acenaphthylene	ug/L	1	0.42	0.70	42	70	30-126	49	20 R1
Anthracene	ug/L	1	0.47	0.77	47	77	30-125	49	20 R1
Benzo(a)anthracene	ug/L	1	0.45	0.71	45	71	33-125	46	20 R1
Benzo(a)pyrene	ug/L	1	0.44	0.71	44	71	30-125	46	20 R1
Benzo(b)fluoranthene	ug/L	1	0.44	0.70	44	70	37-125	45	20 R1
Benzo(e)pyrene	ug/L	1	0.42	0.66	42	66	35-125	45	20 R1
Benzo(g,h,i)perylene	ug/L	1	0.43	0.58	43	58	30-125	30	20 R1
Benzo(k)fluoranthene	ug/L	1	0.44	0.70	44	70	30-127	46	20 R1
Chrysene	ug/L	1	0.43	0.69	43	69	32-125	46	20 R1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

Parameter	Units	Spike Conc.	1872751		1872752		% Rec Limits	RPD	Max RPD	Qualifiers
			LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Dibenz(a,h)anthracene	ug/L	1	0.44	0.59	44	59	30-125	29	20	R1
Dibenzofuran	ug/L	1	0.41	0.71	41	71	30-125	53	20	R1
Fluoranthene	ug/L	1	0.46	0.74	46	74	33-125	46	20	R1
Fluorene	ug/L	1	0.45	0.72	45	72	30-125	47	20	R1
Indeno(1,2,3-cd)pyrene	ug/L	1	0.42	0.63	42	63	30-125	40	20	R1
Naphthalene	ug/L	1	0.41	0.69	41	69	30-128	50	20	R1
Phenanthrene	ug/L	1	0.41	0.65	41	65	30-125	46	20	R1
Pyrene	ug/L	1	0.46	0.73	46	73	32-125	45	20	R1
2-Fluorobiphenyl (S)	%				45	60	37-125			
p-Terphenyl-d14 (S)	%				51	67	43-125			

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QUALIFIERS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: MSSV/11612

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSSV/11636

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1M Sample was re-extracted out of hold to confirm results. The re-extracted sample was non-detect for all analytes and had passing surrogate recoveries. Data was not confirmed.

B Analyte was detected in the associated method blank.

C0 Result confirmed by second analysis.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

IS The internal standard recovery associated with this result exceeds the lower control limit. The reported result should be considered an estimated value.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALIFIERS

Project: 2118-0001 Superior MGP

Pace Project No.: 10292044

ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.
R1 RPD value was outside control limits.
S0 Surrogate recovery outside laboratory control limits.
pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2118-0001 Superior MGP
Pace Project No.: 10292044

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10292044001	MW-1	EPA 3510	OEXT/27688	EPA 8270 by HVI	MSSV/11612
10292044002	MW-4	EPA 3510	OEXT/27688	EPA 8270 by HVI	MSSV/11612
10292044003	MW-6	EPA 3510	OEXT/27688	EPA 8270 by HVI	MSSV/11612
10292044004	MW-10	EPA 3510	OEXT/27688	EPA 8270 by HVI	MSSV/11612
10292044005	MW-11	EPA 3510	OEXT/27688	EPA 8270 by HVI	MSSV/11612
10292044006	MW-12	EPA 3510	OEXT/27688	EPA 8270 by HVI	MSSV/11612
10292044007	MW-14	EPA 3510	OEXT/27688	EPA 8270 by HVI	MSSV/11612
10292044008	MW-15	EPA 3510	OEXT/27688	EPA 8270 by HVI	MSSV/11612
10292044009	MW-16	EPA 3510	OEXT/27688	EPA 8270 by HVI	MSSV/11612
10292044010	MW-17	EPA 3510	OEXT/27688	EPA 8270 by HVI	MSSV/11612
10292044011	MW-20	EPA 3510	OEXT/27688	EPA 8270 by HVI	MSSV/11612
10292044012	MW-21	EPA 3510	OEXT/27688	EPA 8270 by HVI	MSSV/11612
10292044013	MW-5	EPA 3510	OEXT/27688	EPA 8270 by HVI	MSSV/11612
10292044014	MW-5D	EPA 3510	OEXT/27688	EPA 8270 by HVI	MSSV/11612
10292044015	MW-7	EPA 3510	OEXT/27688	EPA 8270 by HVI	MSSV/11612
10292044016	MW-2	EPA 3510	OEXT/27717	EPA 8270 by HVI	MSSV/11636
10292044017	MW-8	EPA 3510	OEXT/27717	EPA 8270 by HVI	MSSV/11636
10292044018	MW-9	EPA 3510	OEXT/27717	EPA 8270 by HVI	MSSV/11636
10292044019	MW-13	EPA 3510	OEXT/27717	EPA 8270 by HVI	MSSV/11636
10292044020	MW-22	EPA 3510	OEXT/27717	EPA 8270 by HVI	MSSV/11636
10292044001	MW-1	EPA 8260	MSV/29934		
10292044002	MW-4	EPA 8260	MSV/29934		
10292044003	MW-6	EPA 8260	MSV/29934		
10292044004	MW-10	EPA 8260	MSV/29914		
10292044005	MW-11	EPA 8260	MSV/29934		
10292044006	MW-12	EPA 8260	MSV/29914		
10292044007	MW-14	EPA 8260	MSV/29934		
10292044008	MW-15	EPA 8260	MSV/29914		
10292044009	MW-16	EPA 8260	MSV/29914		
10292044010	MW-17	EPA 8260	MSV/29934		
10292044011	MW-20	EPA 8260	MSV/29914		
10292044012	MW-21	EPA 8260	MSV/29934		
10292044013	MW-5	EPA 8260	MSV/29990		
10292044014	MW-5D	EPA 8260	MSV/29990		
10292044015	MW-7	EPA 8260	MSV/29990		
10292044016	MW-2	EPA 8260	MSV/29980		
10292044017	MW-8	EPA 8260	MSV/29990		
10292044018	MW-9	EPA 8260	MSV/29980		
10292044019	MW-13	EPA 8260	MSV/29980		
10292044020	MW-22	EPA 8260	MSV/29980		
10292044021	Trip Blank	EPA 8260	MSV/29990		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10292044

Section A Required Client Information:

Company: *Summit Environmental*
 Address: *1217 Broadway Blvd
 St. Paul, MN 55108*
 Email To: *hgregg@summit.com*
 Phone: *651-262-4244* Fax:
 Requested Due Date/TAT:

Section B Report To:

Report To: *Bill Gregg*
 Copy To:
 Purchase Order No.:
 Project Name: *Superior MGP*
 Project Number: *248-0001*

Section C Invoice Information:

Attention: *Bill Gregg*
 Company Name:
 Address:
 Pace Quote Reference:
 Pace Project Manager: *Justin Benjamin*
 Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER *W-1*
 Site Location STATE: *WI*

Section D Required Client Information

SAMPLE ID
 (A-Z, 0-9 / -)
 Sample IDs MUST BE UNIQUE

MATRIX / CODE	Drinking Water	DW
Water	WT	WW
Waste Water	P	SL
Product	OL	WP
Soil/Solid	AR	TS
Oil	OT	
Wipe		
Air		
Tissue		
Other		

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H ₂ SO ₄	HNO ₃	NaOH	Na ₂ S ₂ O ₅	Methanol	Other	Analysis Test ↑	Y/N ↑	Requested Analysis Filtered (Y/N)	Preservatives	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G	COMPOSITE START GRAB	12/16	1245	12/16	1545		2								X PAH					001
2	MW-4				12/16	1245												X VOC					002
3	MW-6				12/16	1100																	003
4	MW-10				12/15	1055																	004
5	MW-11				12/16	1320																	005
6	MW-12				12/16	1420																	006
7	MW-14				12/15	1245																	607
8	MW-15				12/15	1410																	286
9	MW-16				12/15	0930																	001
10	MW-17				12/16	0930																	010
11	MW-20				12/15	1220																	011
12	MW-21				12/16	1045																	012

ADDITIONAL COMMENTS

Summit delivery to Pace
William M. Gregg
12/17/14
12/17/14 600
12/17/14 600
 Relinquished by / Affiliation
 Date Time
 Accepted by / Affiliation
 Date Time
 Sample Conditions
 Temp In °C
 Received on
 Custody Sealed Cooler
 Samples Intact

ORIGINAL

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section C Invoicing Information:

Attention: *Bill Gregg*
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

Section B Required Client Information:

Report To: *Bill Gregg*
Copy To:
Purchase Order No.:
Project Name:
Project Number:

Section A Required Client Information:

Company: *Summit*
Address:
Email To:
Phone: *857-262-4230* Fax:
Requested Due Date/TAT:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER
Site Location
STATE:

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE Drinking Water DW Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Requested Analysis Filtered (Y/N) ↑ Analysis Test ↑ Y/N	Sample Conditions													
			COMPOSITE START <i>GRAB</i>	COMPOSITE END/GRAB					DATE	TIME	DATE	TIME	Temp in °C									
1	MW-5		WT	6/12/17/14	0830		2	X			013											
2	MW-5D				0830				X			014										
3	MW-7				1000							015										
4	MW-2				0745							016										
5	MW-8				1015							017										
6	MW-9				1115							018										
7	MW-13				0845							619										
8	MW-22				1225							121										
9	Top Blank																					
10																						
11																						
12																						
Additional Comments: <i>Summit delivery to Pace</i>												RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
												<i>William M. Gary</i>	<i>12/17/14</i>	<i>1600</i>	<i>Bill Gregg</i>	<i>12/17/14</i>	<i>1600</i>	<i>Y</i>	<i>N</i>	<i>Y</i>	<i>N</i>	<i>Y</i>

ORIGINAL


SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YYYY):

Temp in °C
Received on
Ice (Y/N)
Custody Sealed Cooler (Y/N)
Samples Intact (Y/N)

Sample Condition Upon Receipt

Client Name: Summit Amrosowbans

Project #: WO# : 10292044



Courier: Fed Ex UPS USPS Client
 Commercial Pace SpeeDee Other: _____

Tracking Number: _____

Custody Seal on Cooler/Box Present? Yes No **Seals Intact?** Yes No **Optional:** Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other: _____ **Temp Blank?** Yes No

Thermom. Used: B88A9130516413 B88A912167504 B88A9132521491 **Type of Ice:** Wet Blue None Samples on ice, cooling process has begun

Cooler Temp Read (°C): 0.21.5 **Cooler Temp Corrected (°C):** 0.21.5 **Biological Tissue Frozen?** Yes No N/A
Temp should be above freezing to 6°C **Correction Factor:** none **Date and Initials of Person Examining Contents:** DN 12/17/14

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>				
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	Sample #
	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	14. <u>10:42 30:42 10:42 11:42</u>
Trip Blank Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	15. <u>160:42</u>
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<u>190:42</u>
Pace Trip Blank Lot # (if purchased): <u>102814-01</u>				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____
Comments/Resolution: _____

Project Manager Review: Kahn Young **Date:** Dec. 18, 2014

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Appendix C

Transducer Data and NOAA Data for Lake Superior

Draft

Lake Superior and MW-10

Water Elevation - with Precipitation

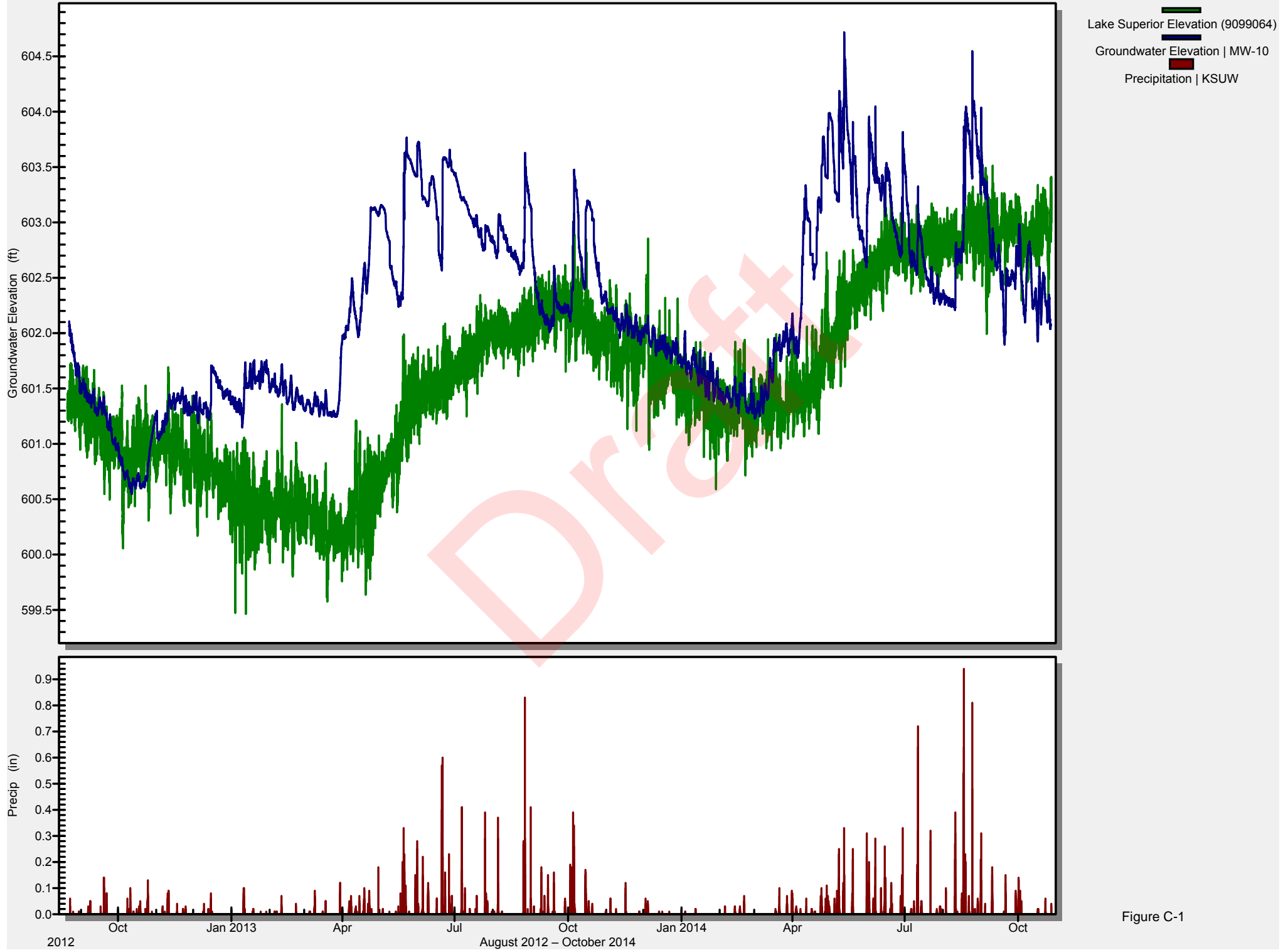


Figure C-1

Lake Superior and MW-11

Water Elevation - with Precipitation

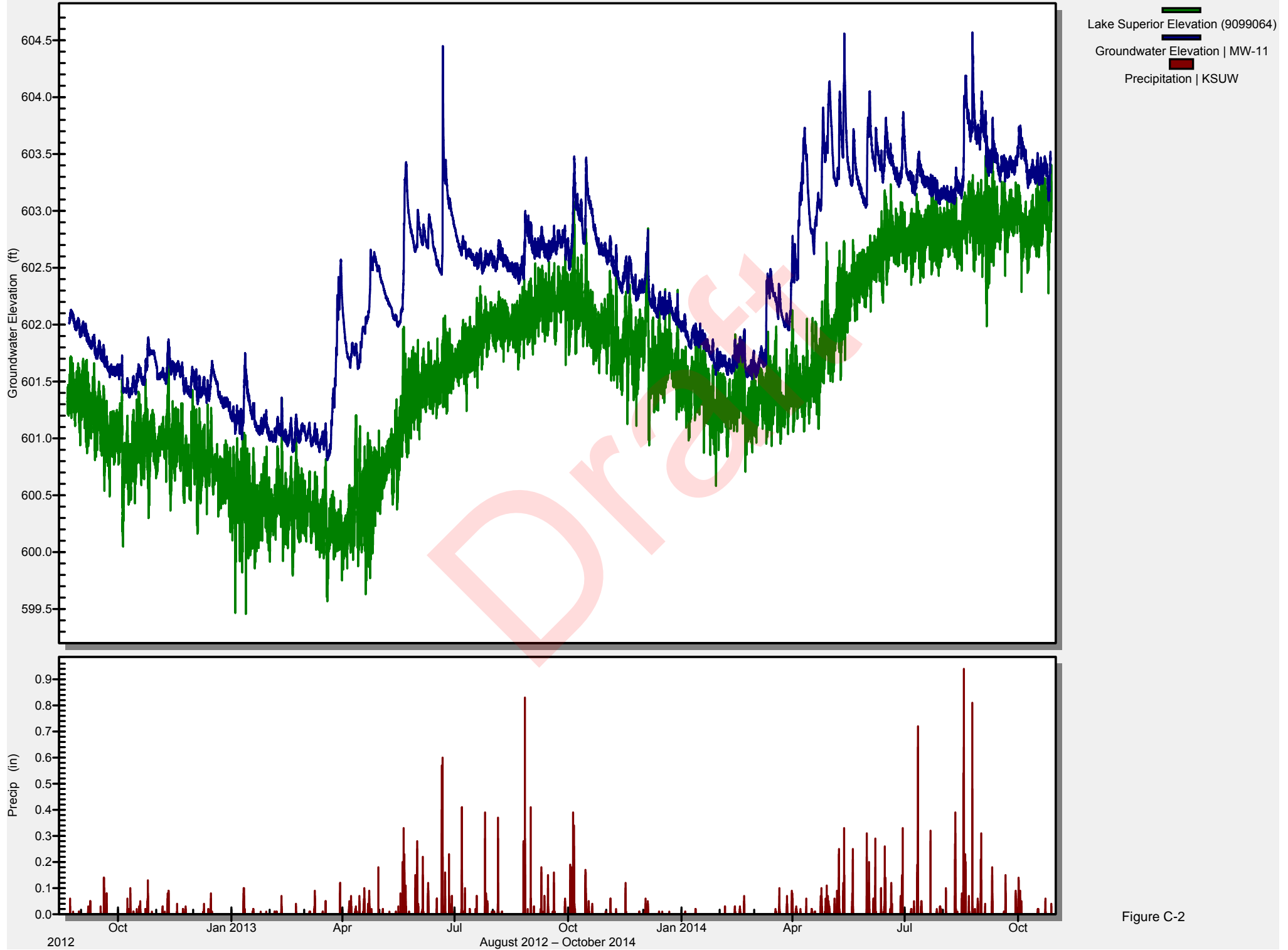


Figure C-2

Lake Superior and MW-15

Water Elevation - with Precipitation

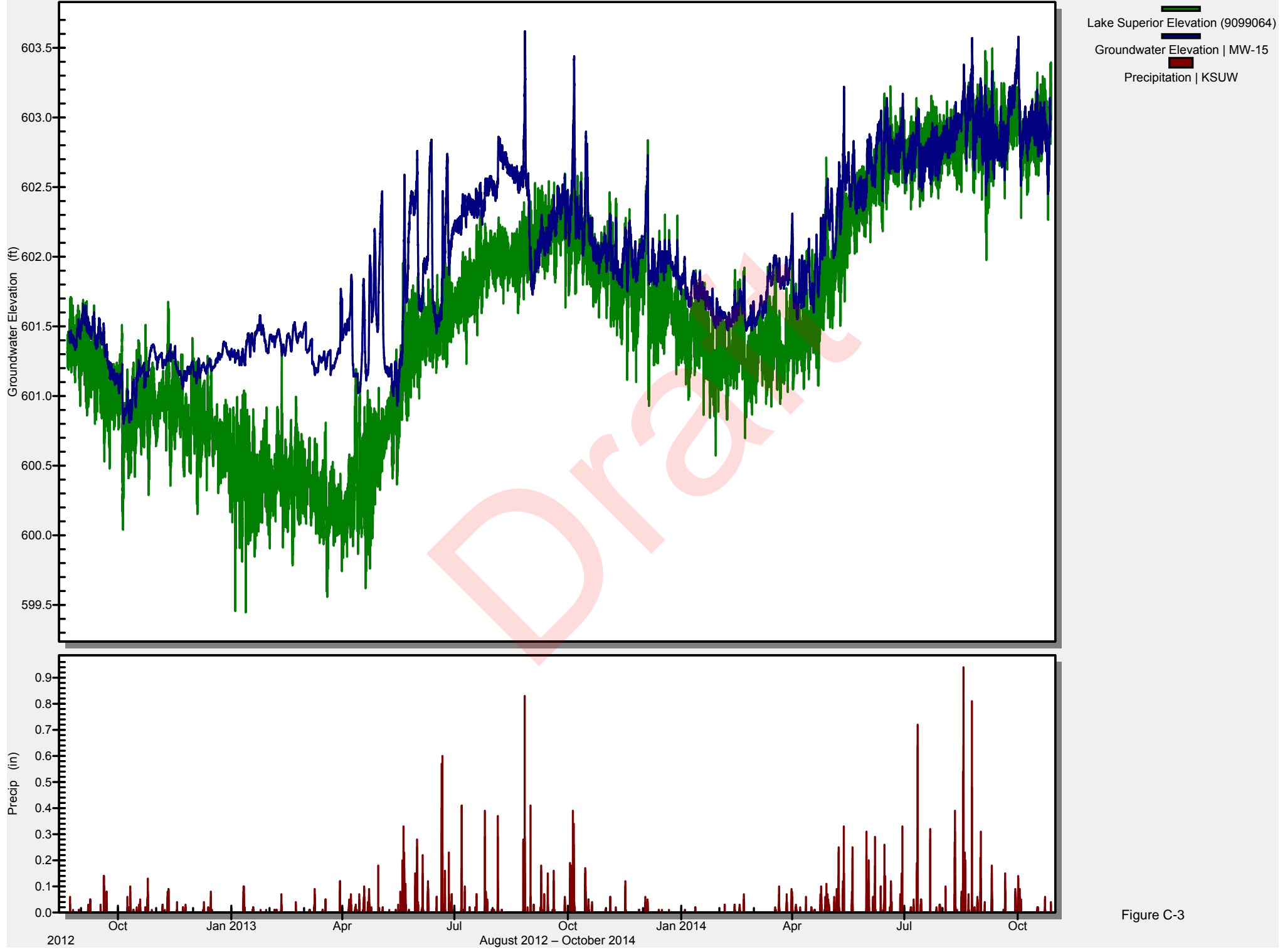


Figure C-3

Lake Superior and MW-20

Water Elevation - with Precipitation

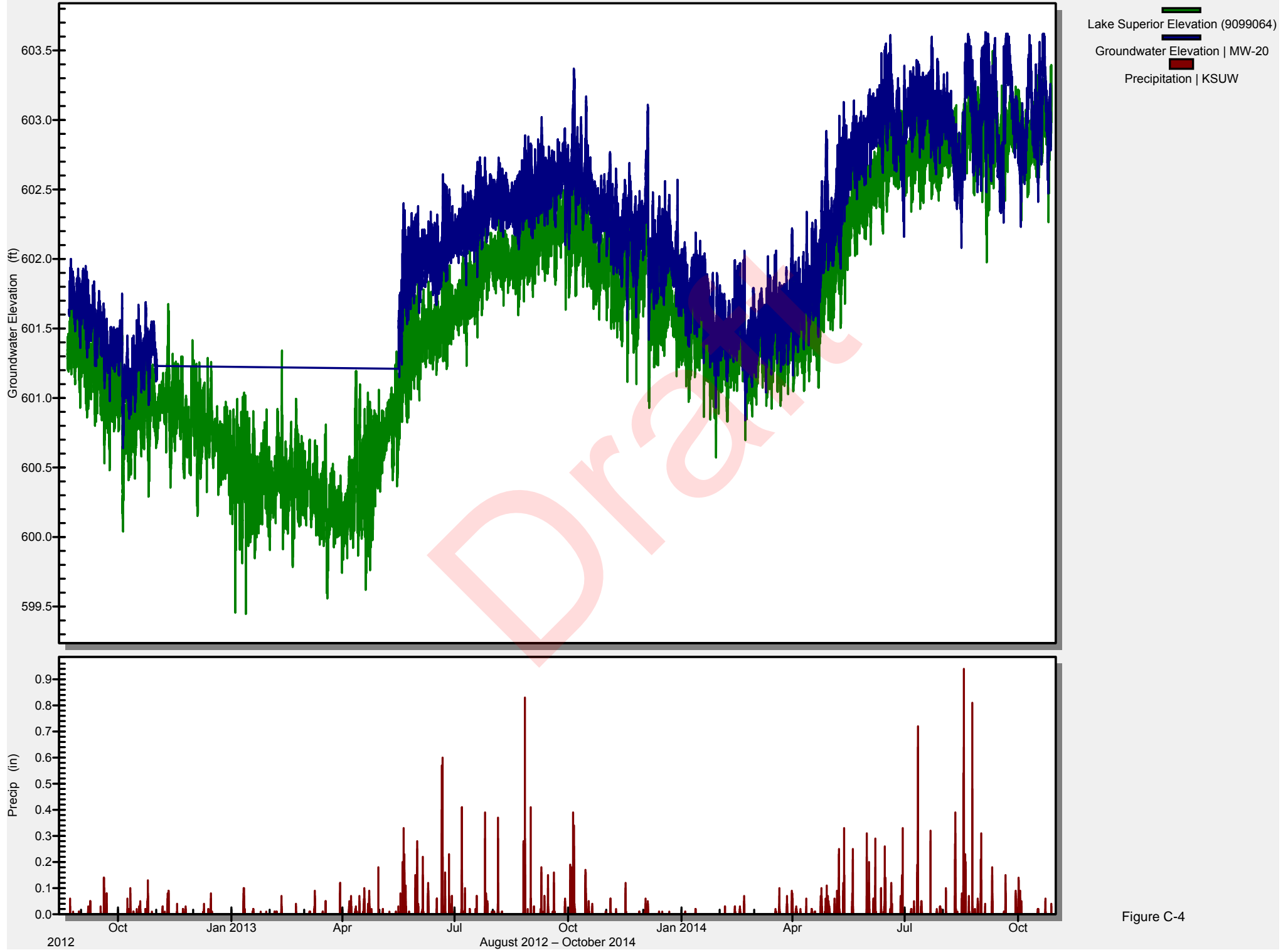


Figure C-4

Lake Superior and Instrumented Monitoring Wells

Water Elevation

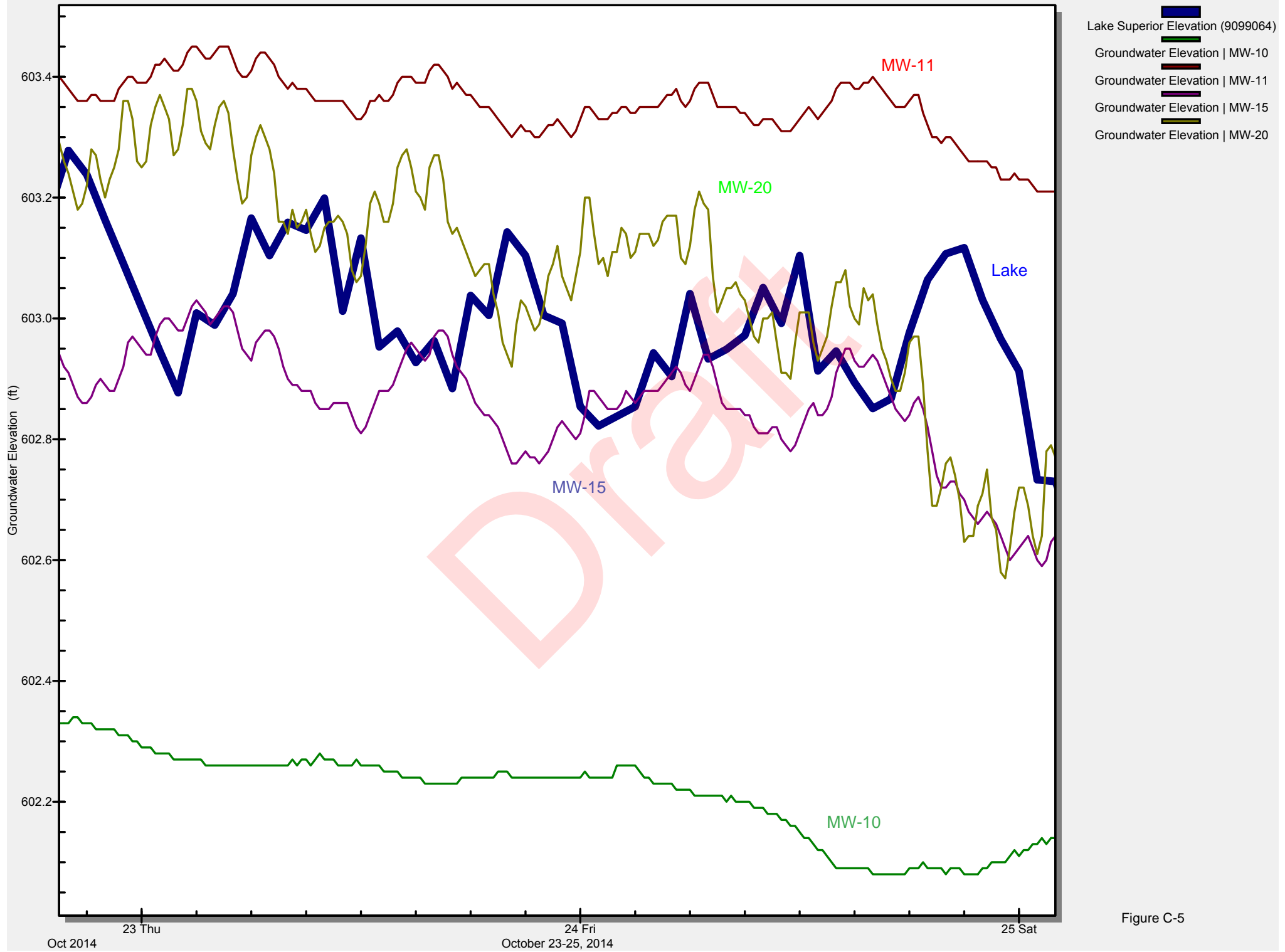


Figure C-5

Lake Superior and City Sewer Treatment Pond

Water Elevation - with Precipitation

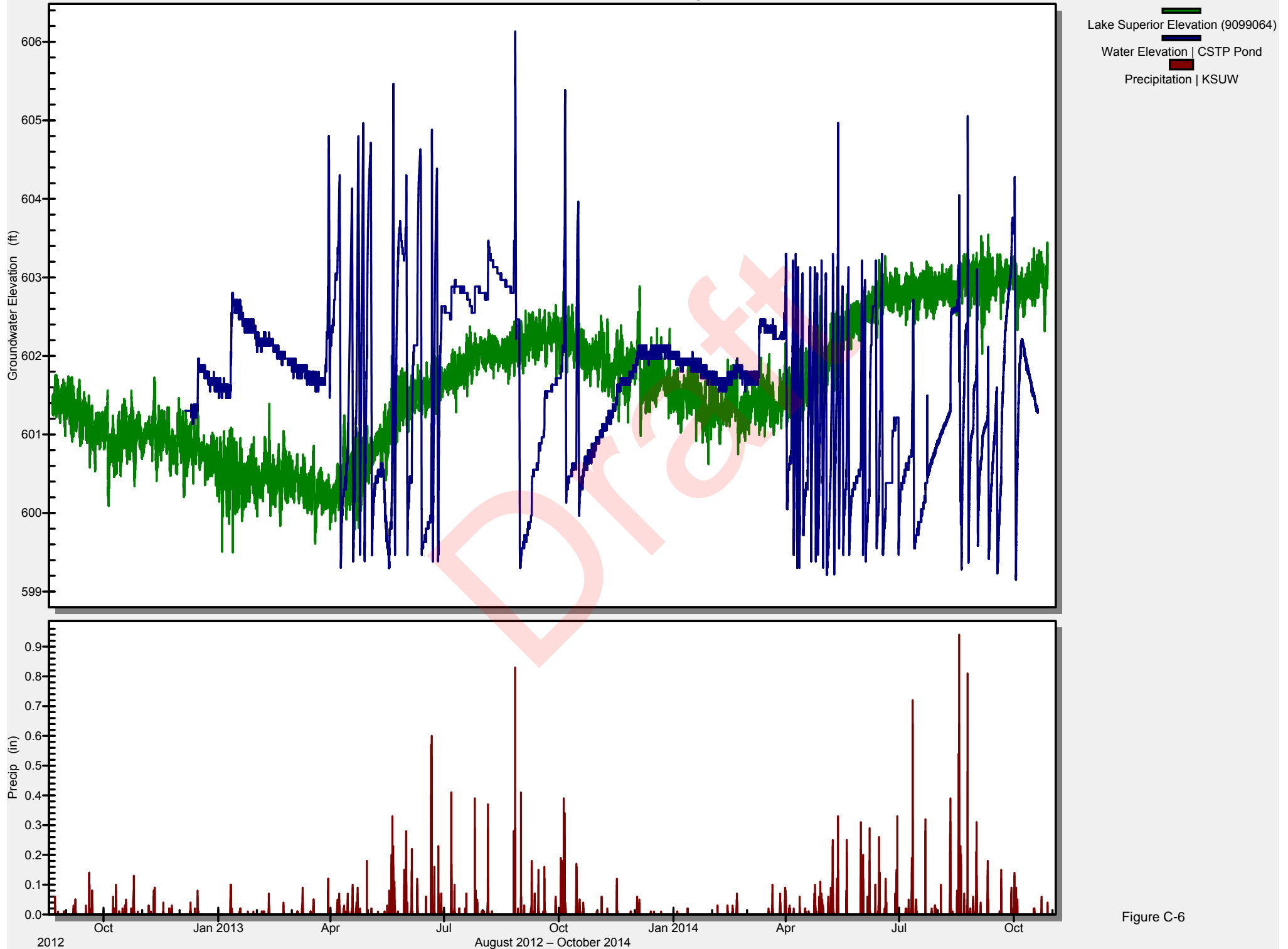


Figure C-6

City Sewer Treatment Pond and MW-15

Water Elevation - with Precipitation

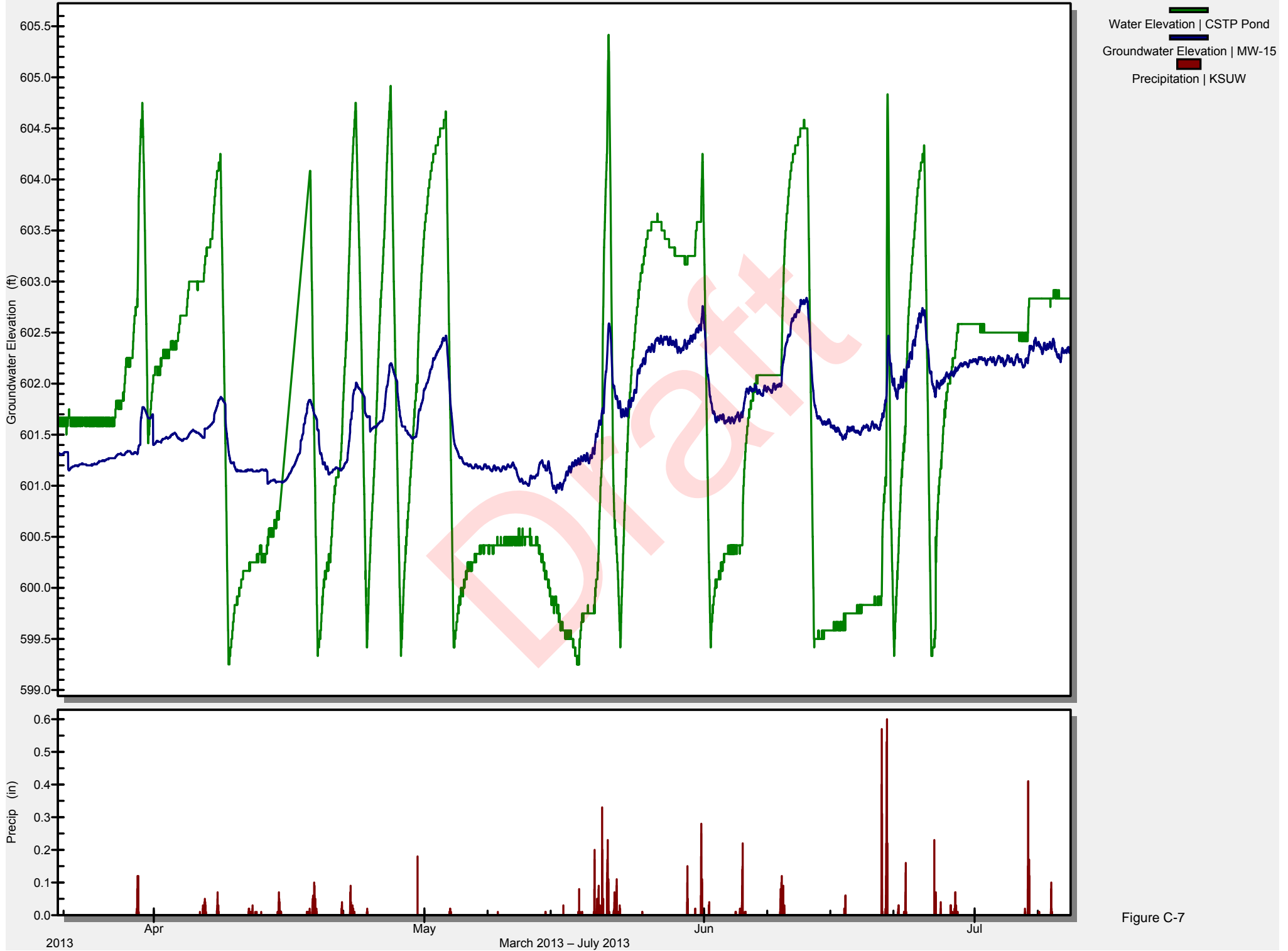


Figure C-7

Appendix D

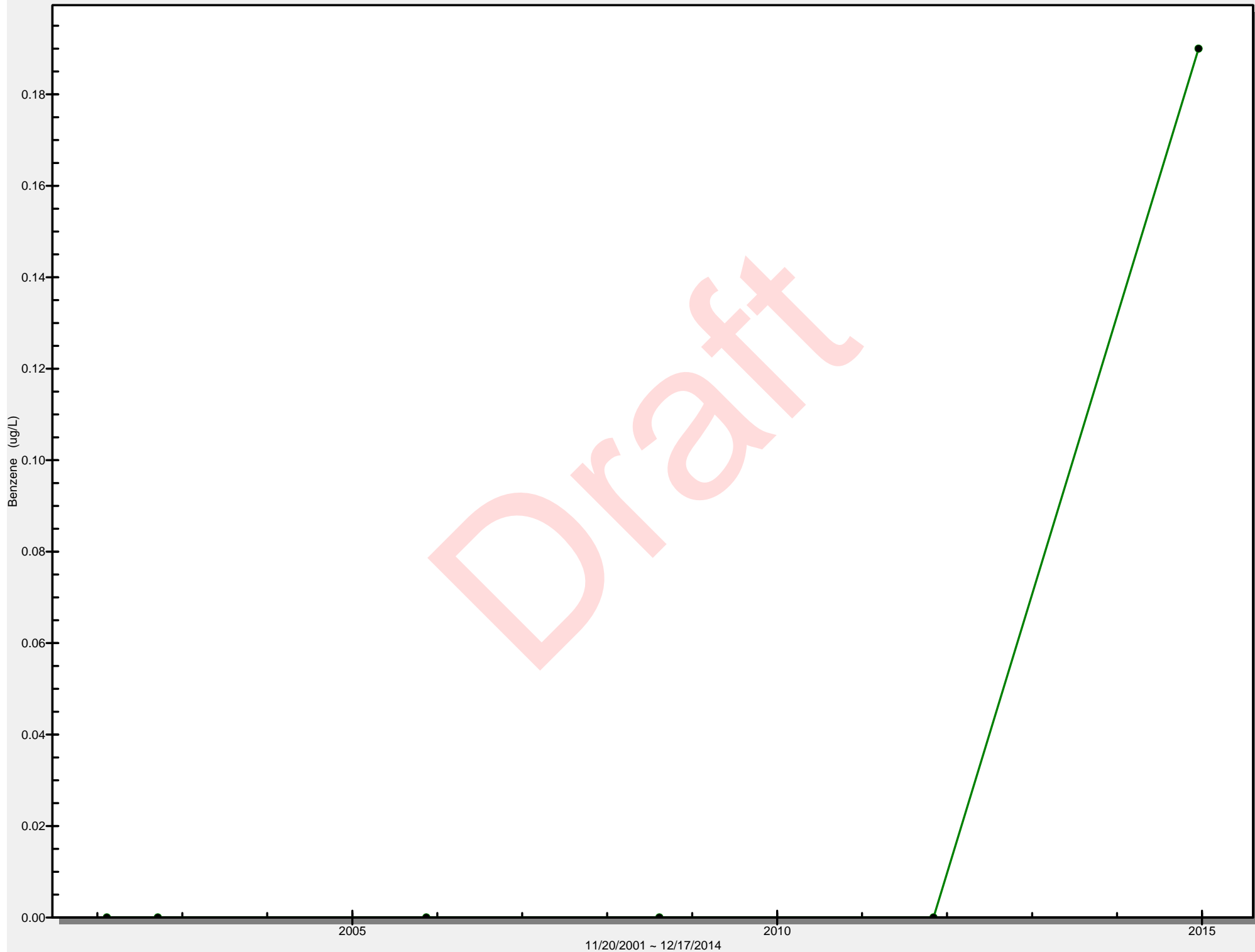
Benzene and Naphthalene Concentration Graphs

Draft

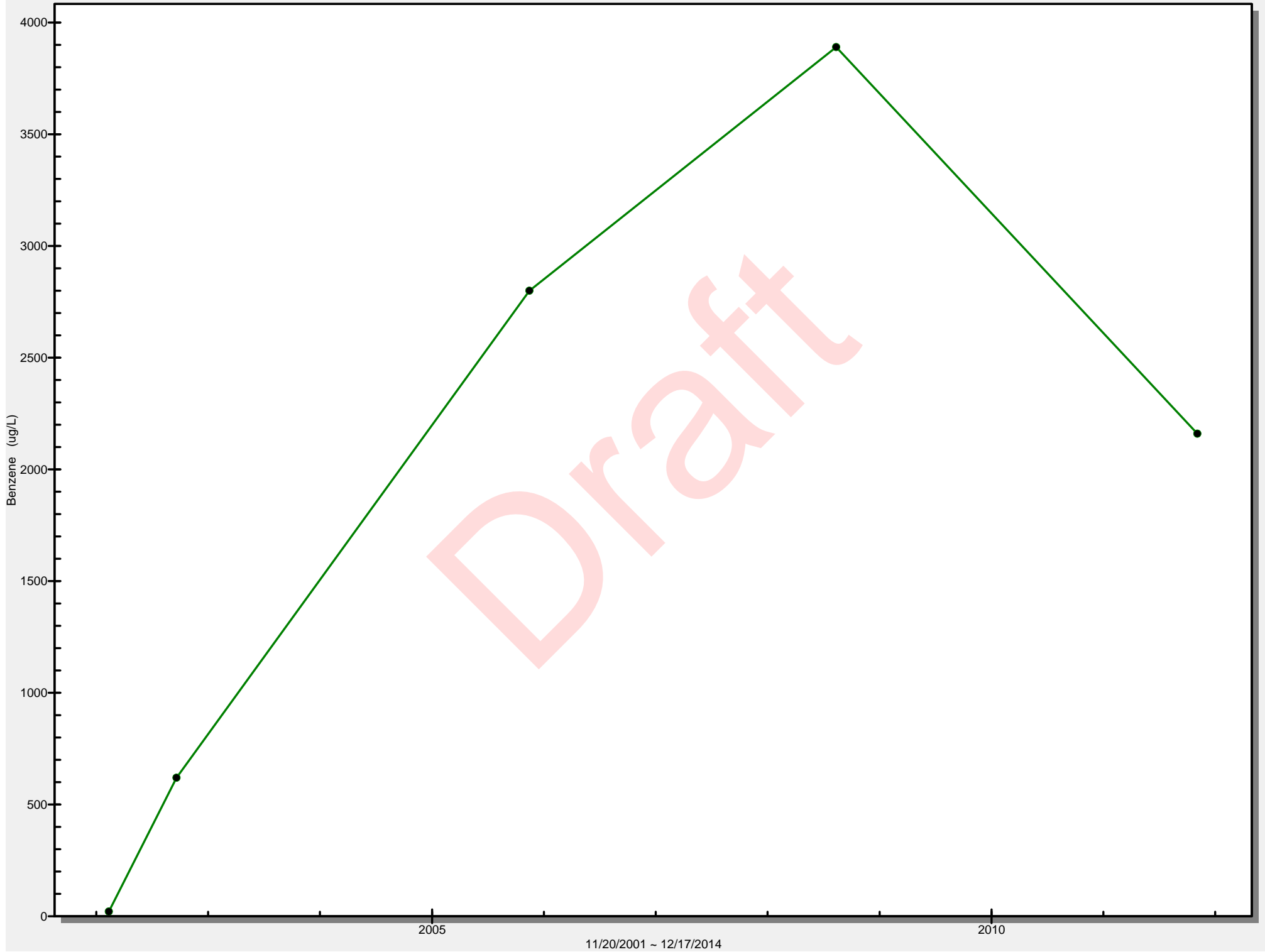
Benzene Time Series Graphs

Draft

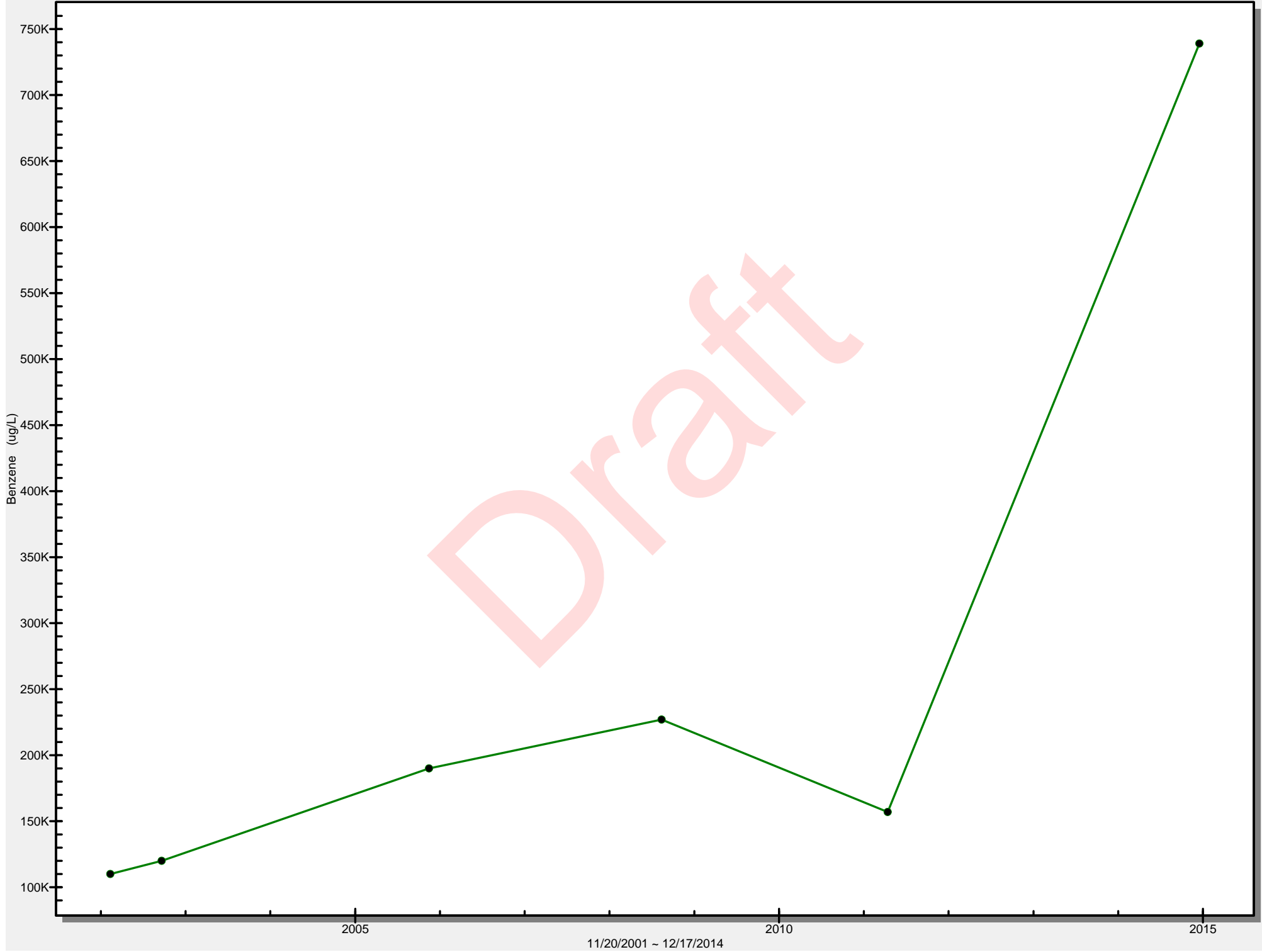
Well MW-2
Benzene Concentration in Groundwater



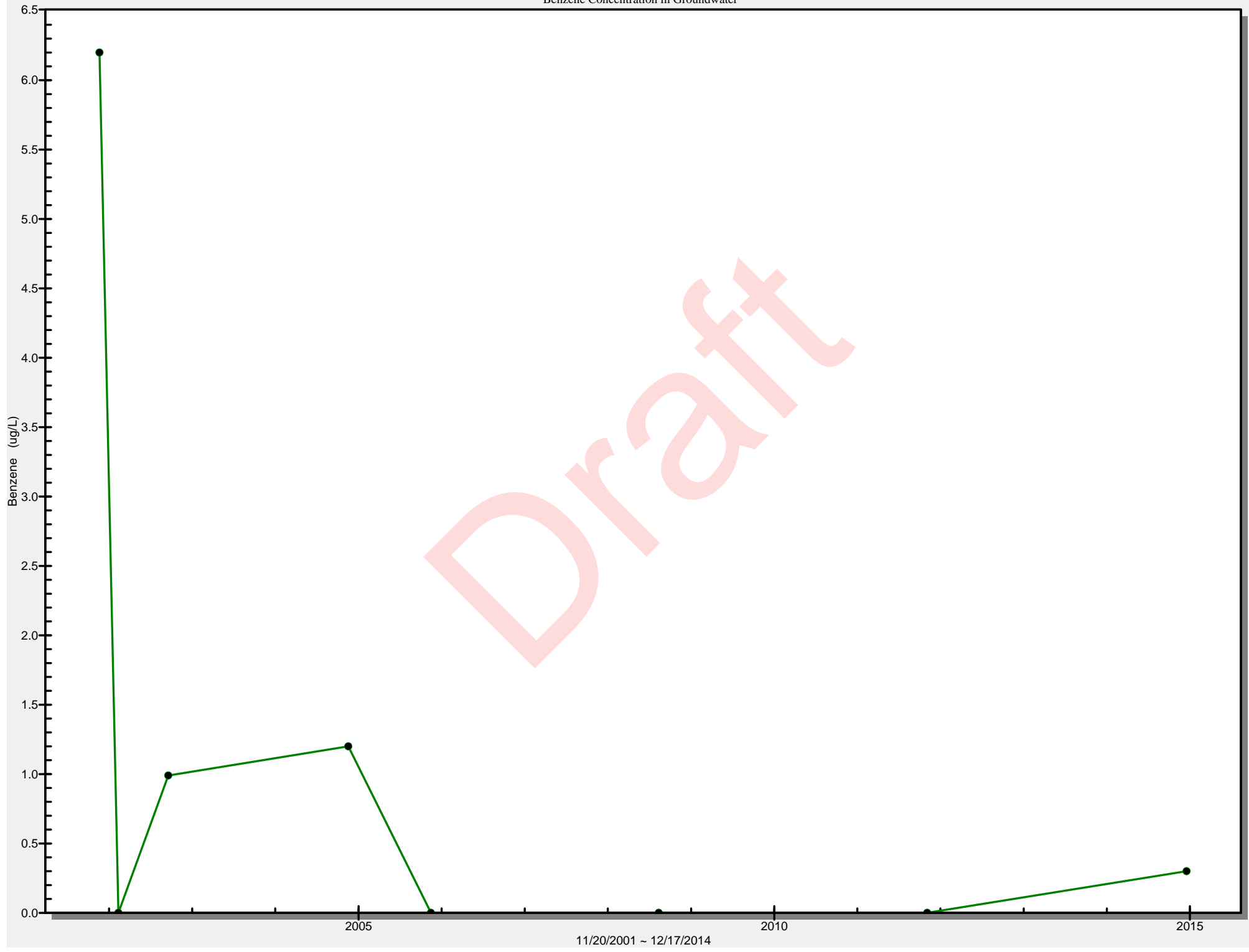
Well MW-3
Benzene Concentration in Groundwater



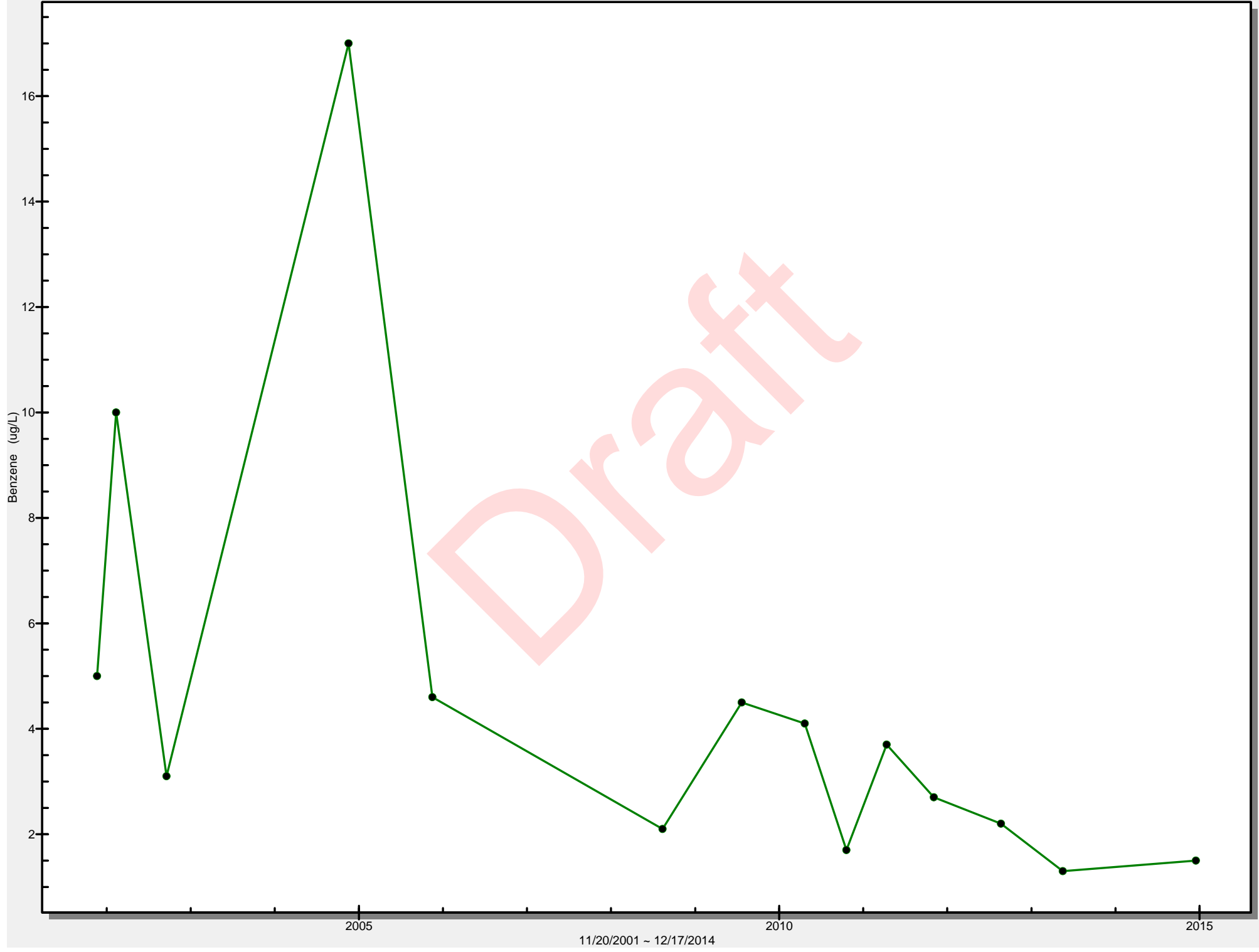
Well MW-4
Benzene Concentration in Groundwater



Well MW-5
Benzene Concentration in Groundwater

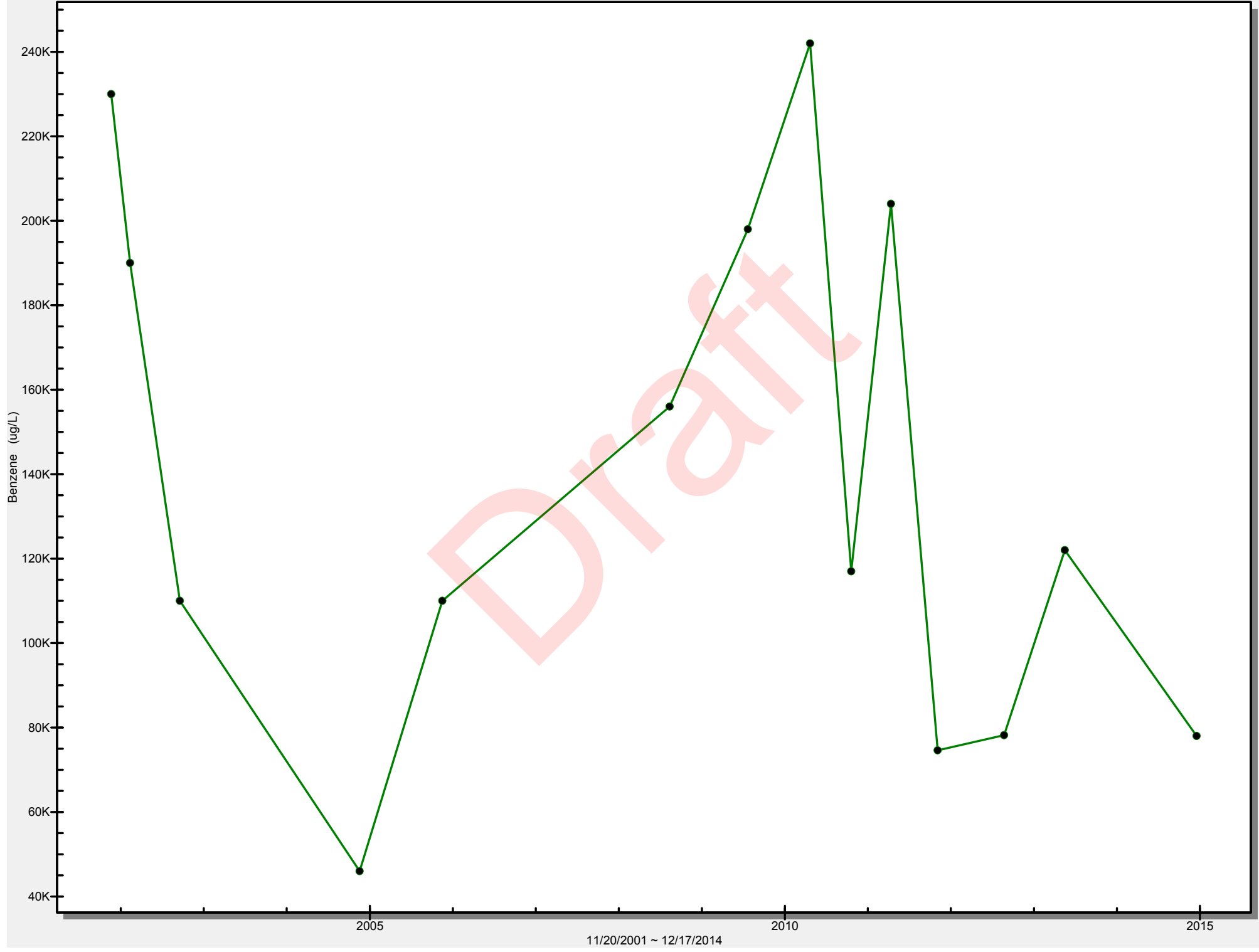


Well MW-6
Benzene Concentration in Groundwater

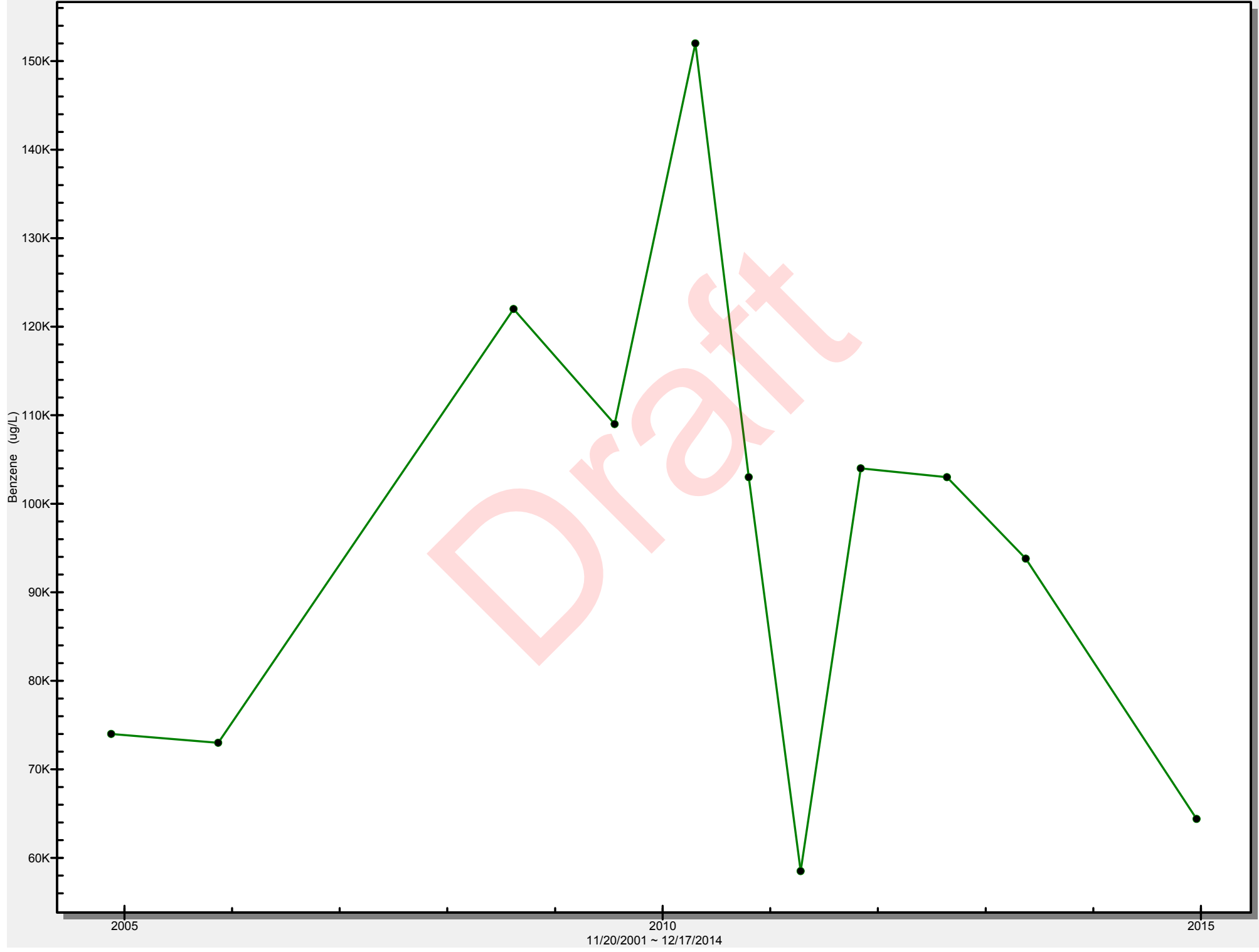


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Well MW-7
Benzene Concentration in Groundwater

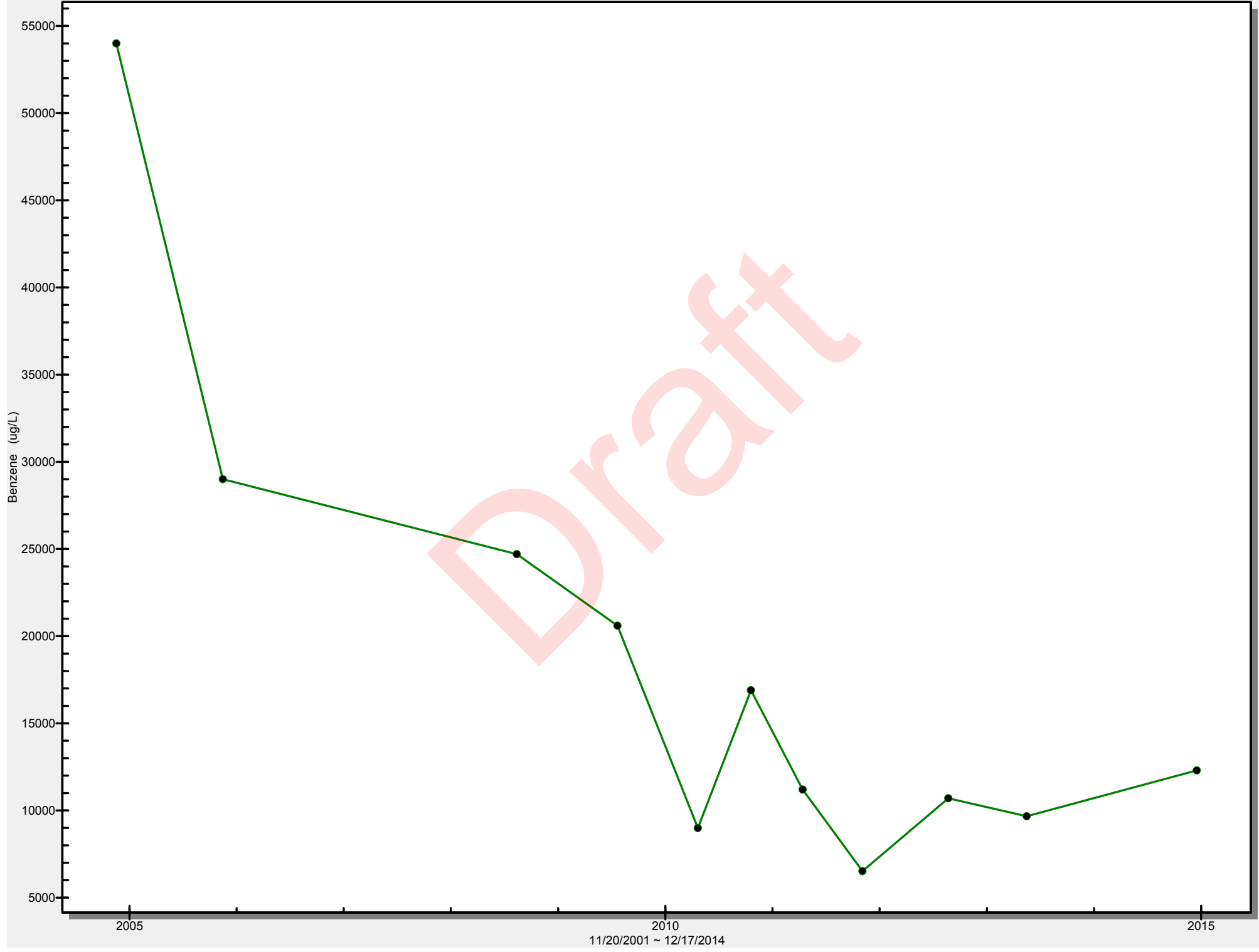


Well MW-8
Benzene Concentration in Groundwater



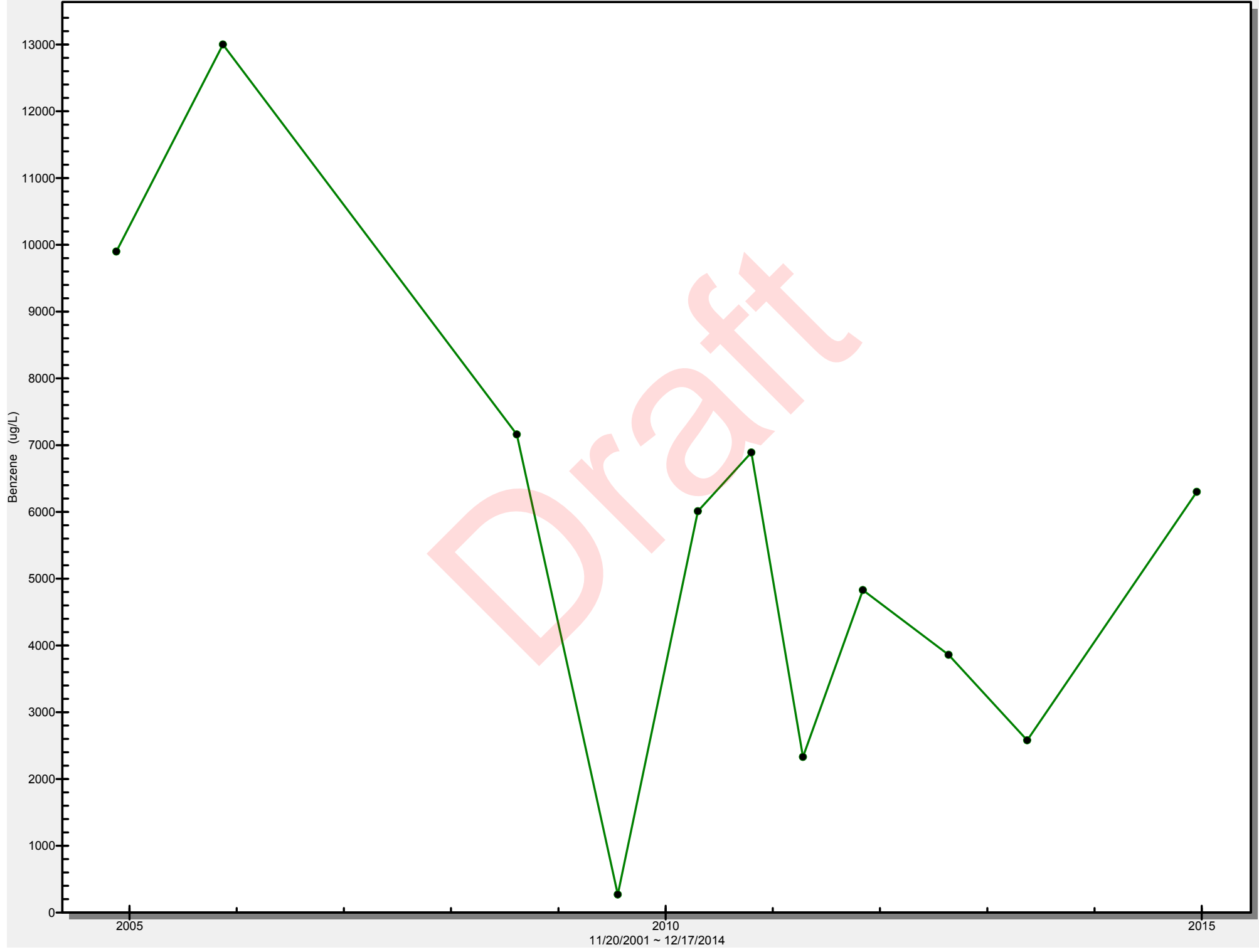
11/20/2001 ~ 12/17/2014

Well MW-9
Benzene Concentration in Groundwater

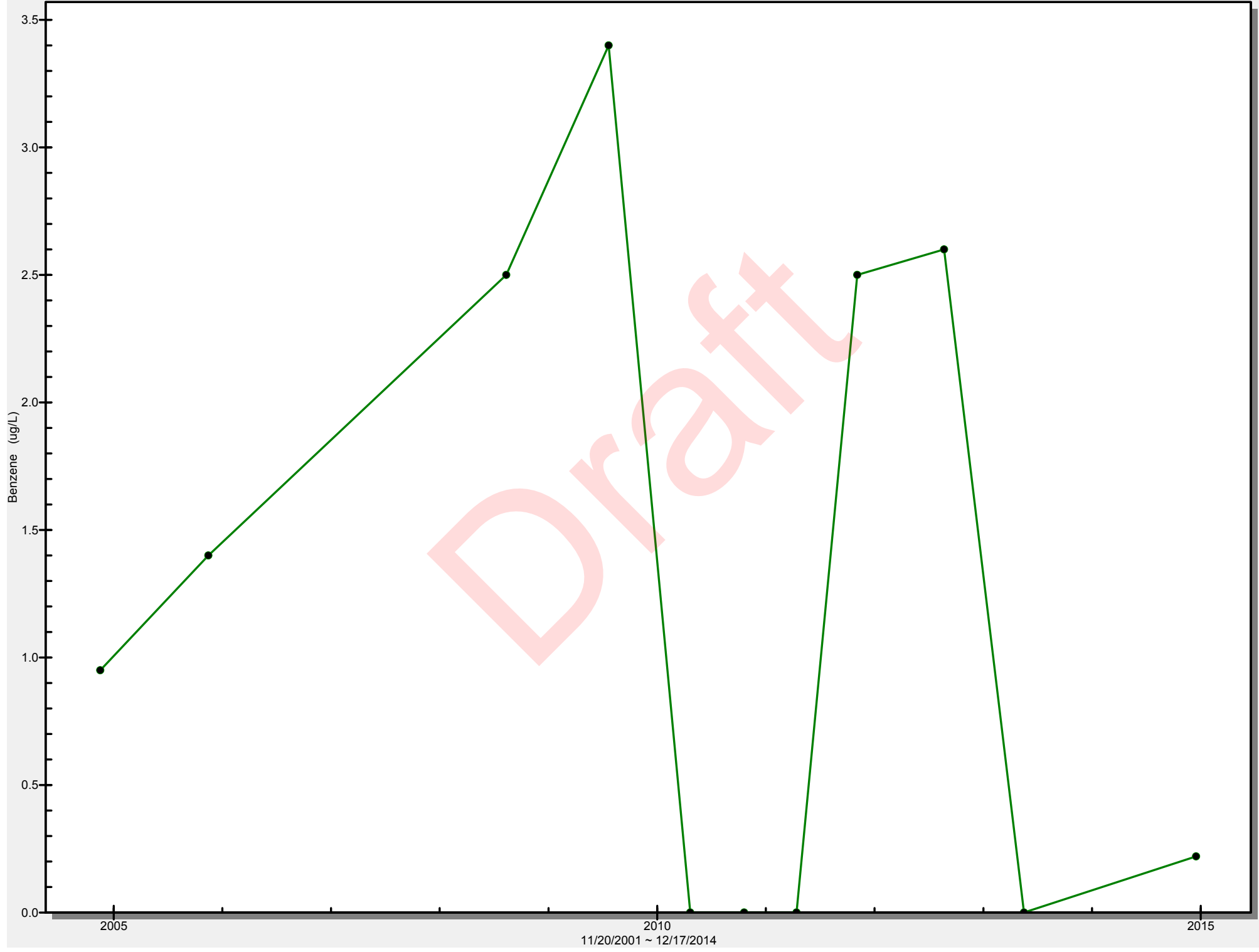


Draft

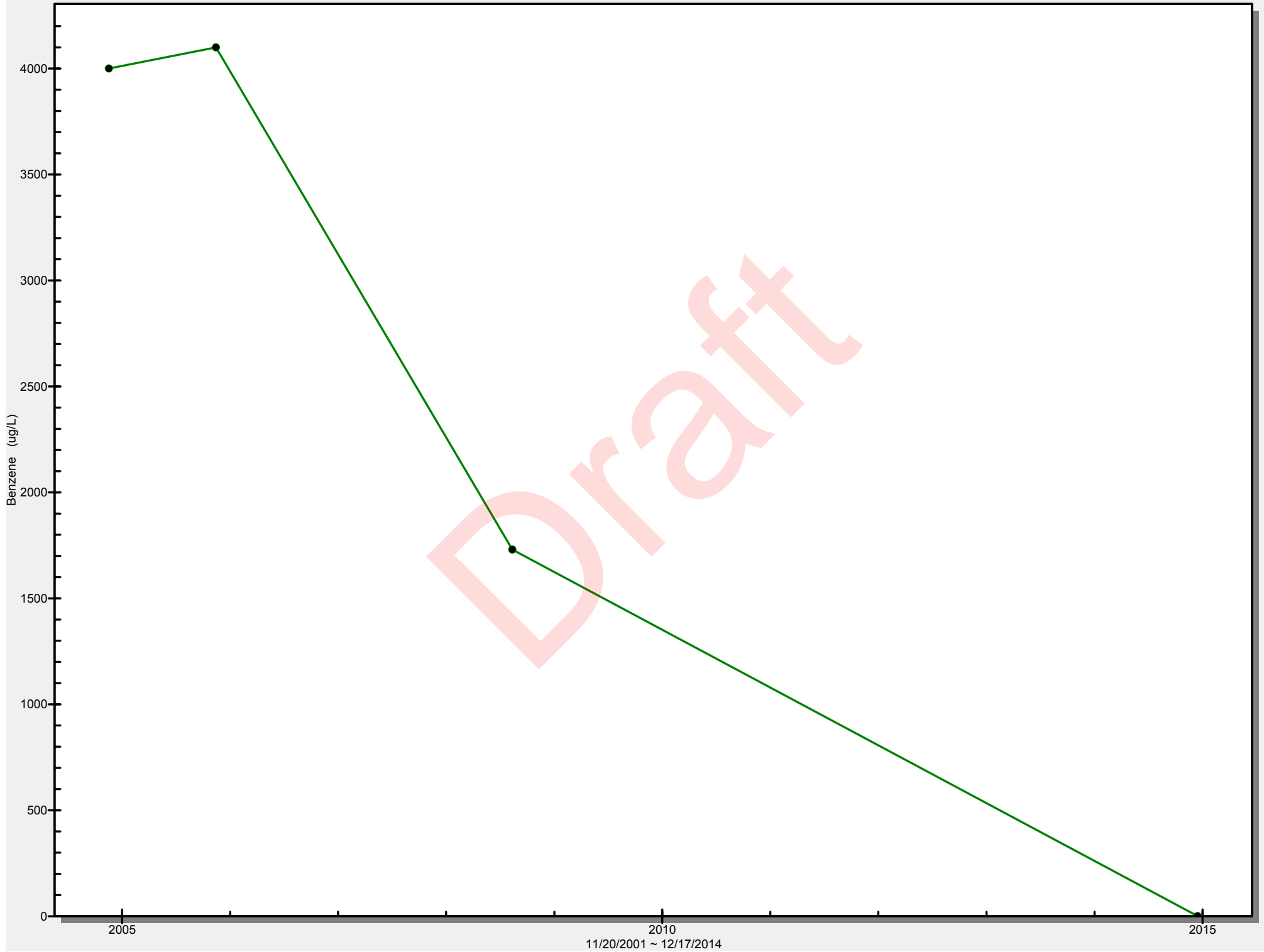
Well MW-10
Benzene Concentration in Groundwater



Well MW-11
Benzene Concentration in Groundwater



Well MW-12
Benzene Concentration in Groundwater



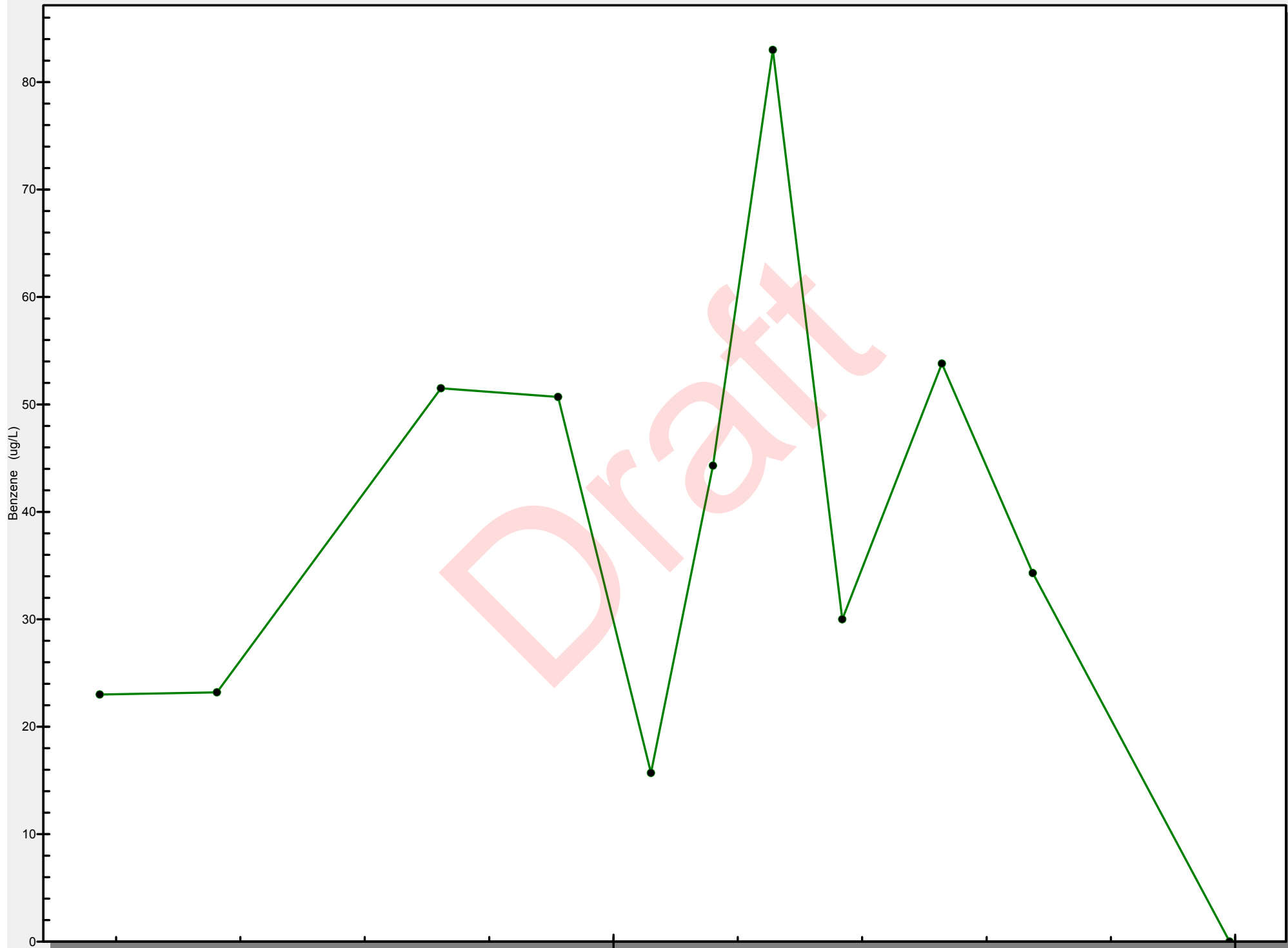
Well MW-13
Benzene Concentration in Groundwater



2010
11/20/2001 ~ 12/17/2014

2015

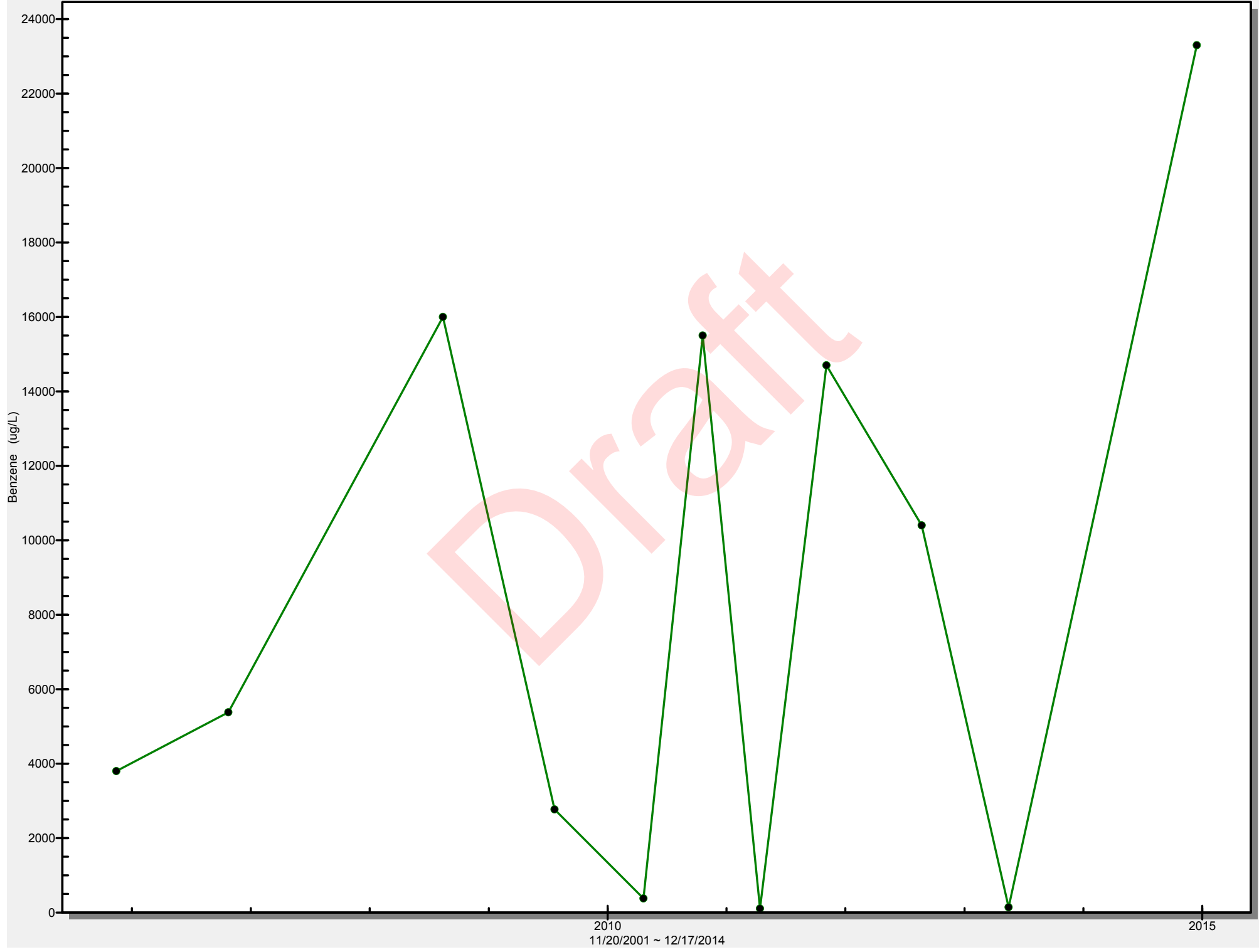
Well MW-15
Benzene Concentration in Groundwater



2010
11/20/2001 ~ 12/17/2014

2015

Well MW-20
Benzene Concentration in Groundwater



Well MW-22
Benzene Concentration in Groundwater



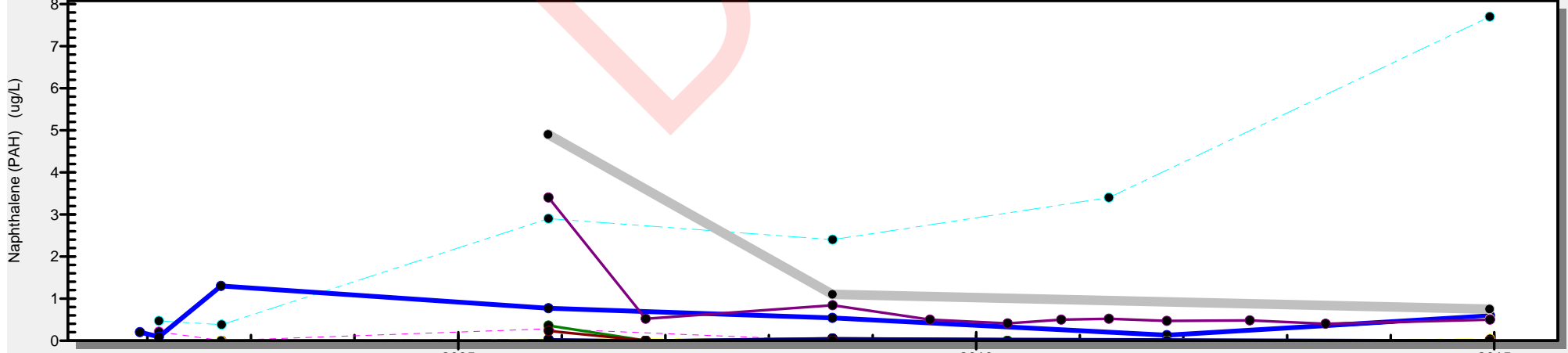
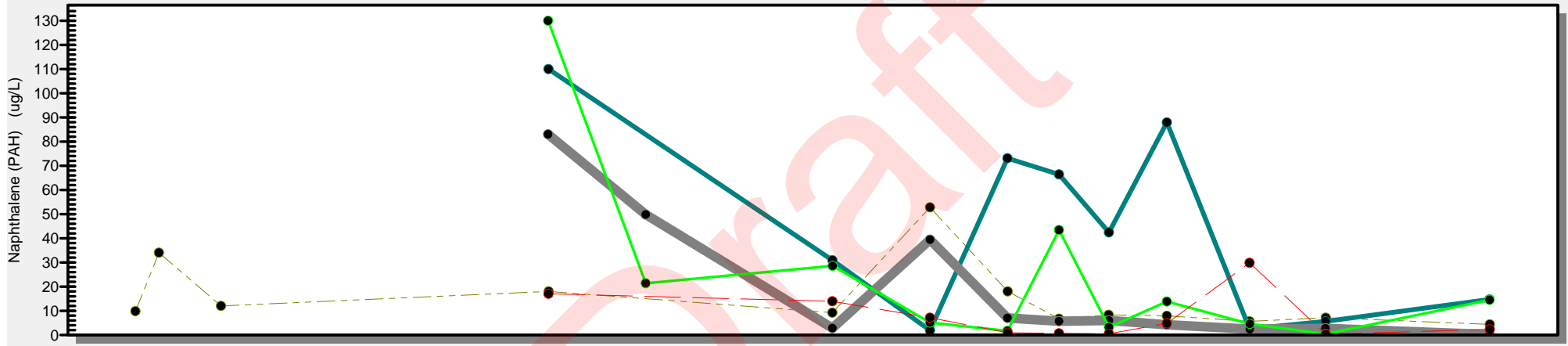
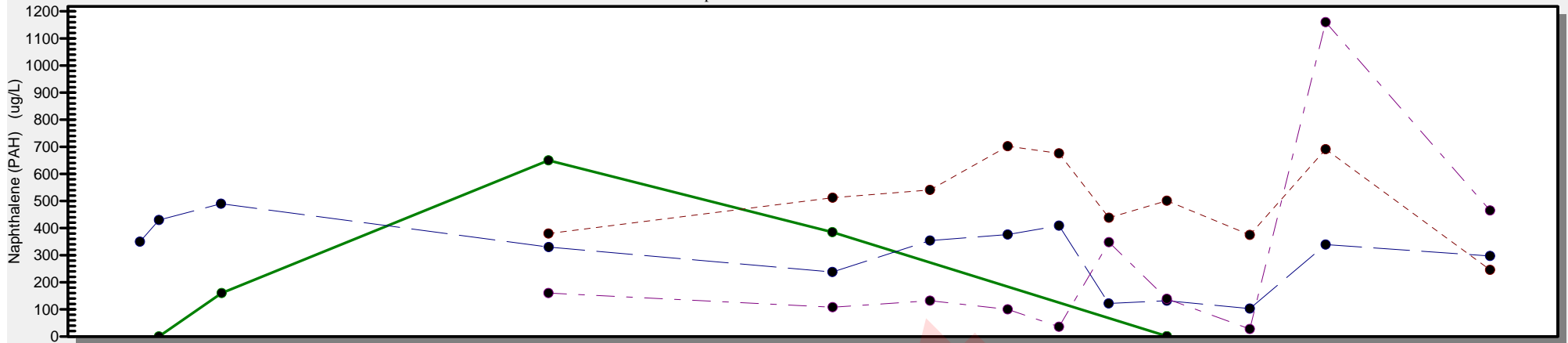
Draft

Naphthalene Time Series Graphs

Draft

Monitoring Wells

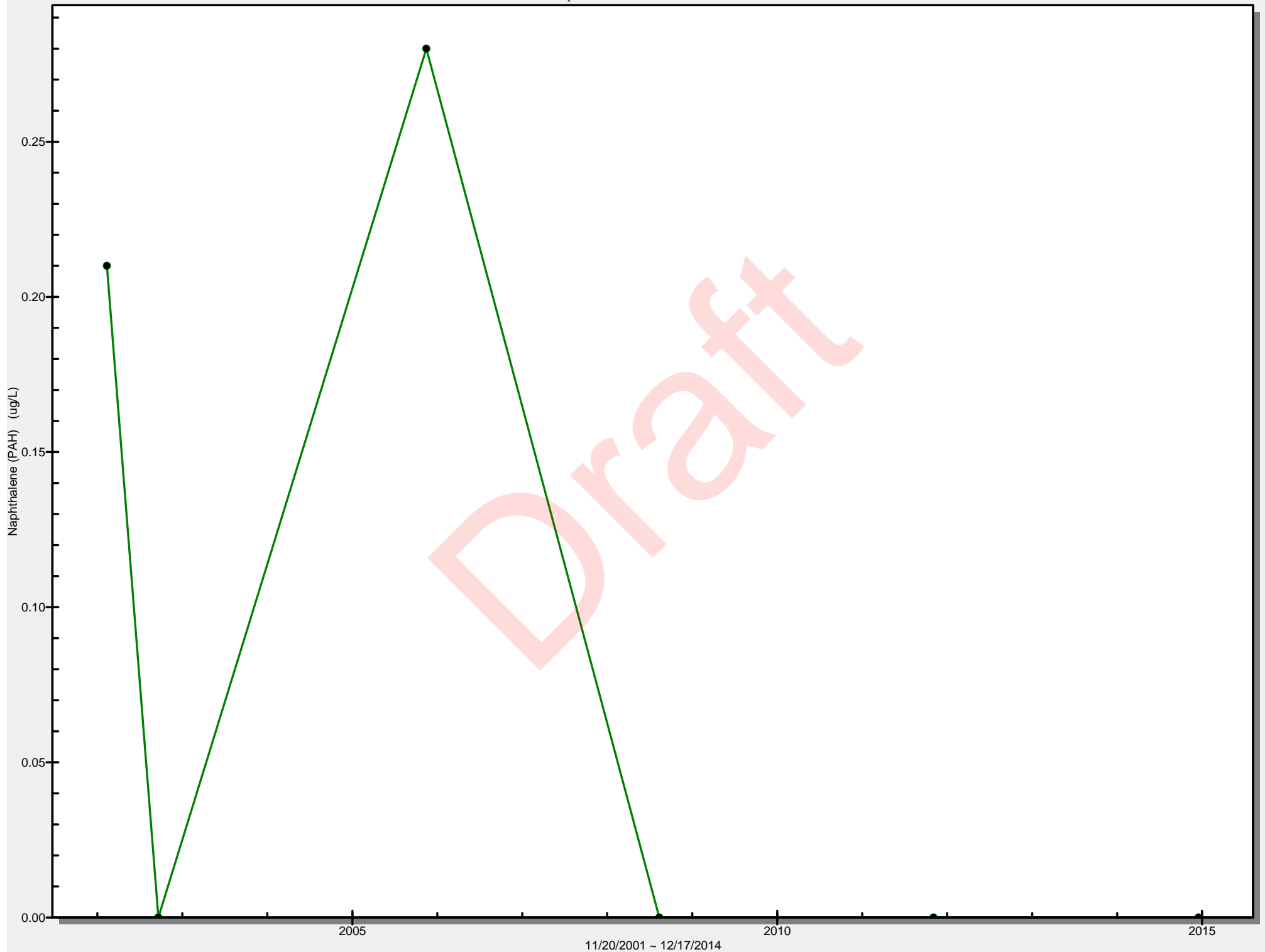
PAH Naphthalene Concentration in Groundwater



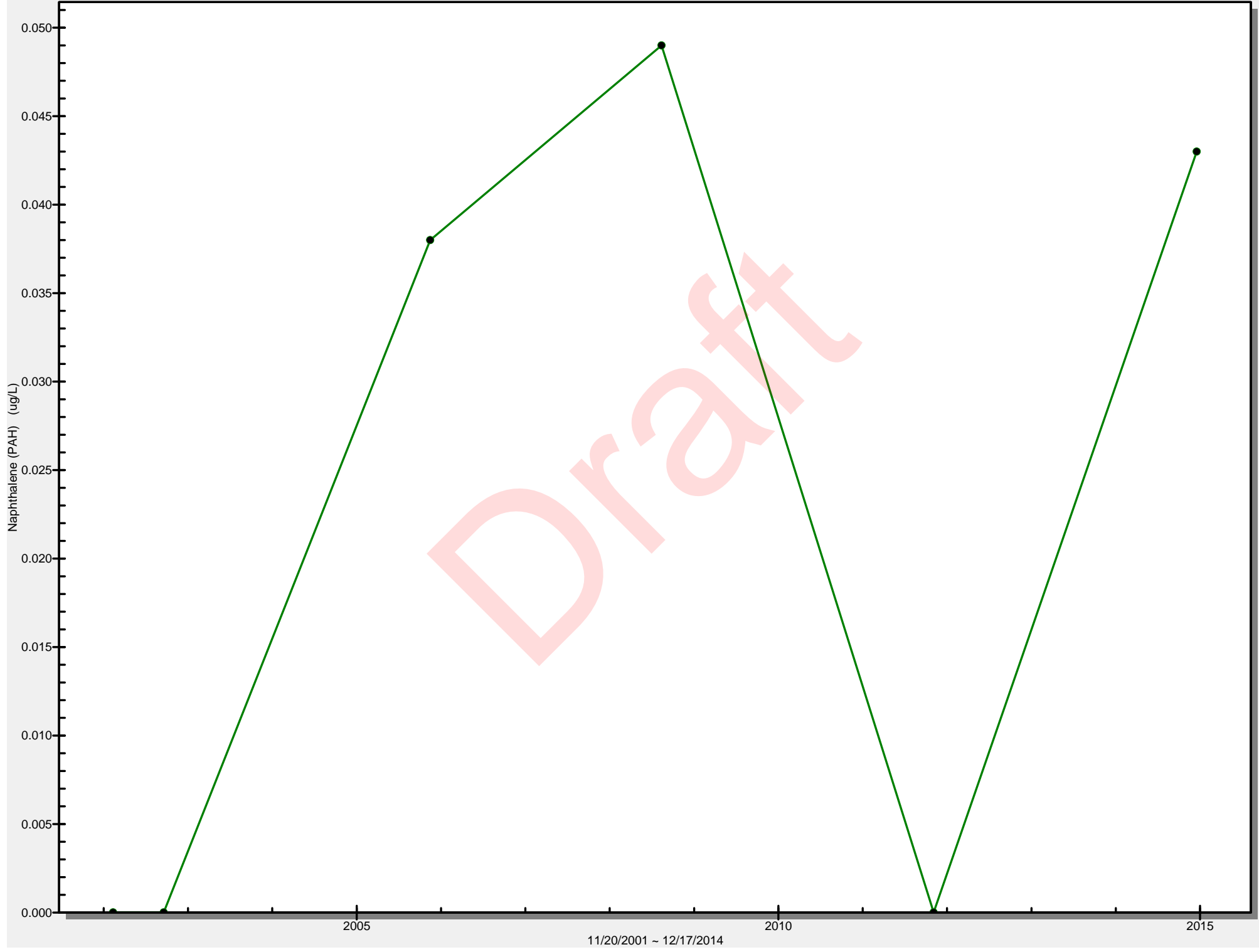
11/20/2001 ~ 12/17/2014

- | | | | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Naphthalene (PAH) MW-03 | Naphthalene (PAH) MW-07 | Naphthalene (PAH) MW-08 | Naphthalene (PAH) MW-09 | Naphthalene (PAH) MW-06 | Naphthalene (PAH) MW-10 | Naphthalene (PAH) MW-15 |
| Naphthalene (PAH) MW-20 | Naphthalene (PAH) MW-11 | Naphthalene (PAH) MW-01 | Naphthalene (PAH) MW-02 | Naphthalene (PAH) MW-04 | Naphthalene (PAH) MW-05 | Naphthalene (PAH) MW-12 |
| Naphthalene (PAH) MW-13 | Naphthalene (PAH) MW-14 | Naphthalene (PAH) MW-16 | Naphthalene (PAH) MW-17 | Naphthalene (PAH) MW-21 | Naphthalene (PAH) MW-22 | |

Well MW-1
PAH Naphthalene Concentration in Groundwater



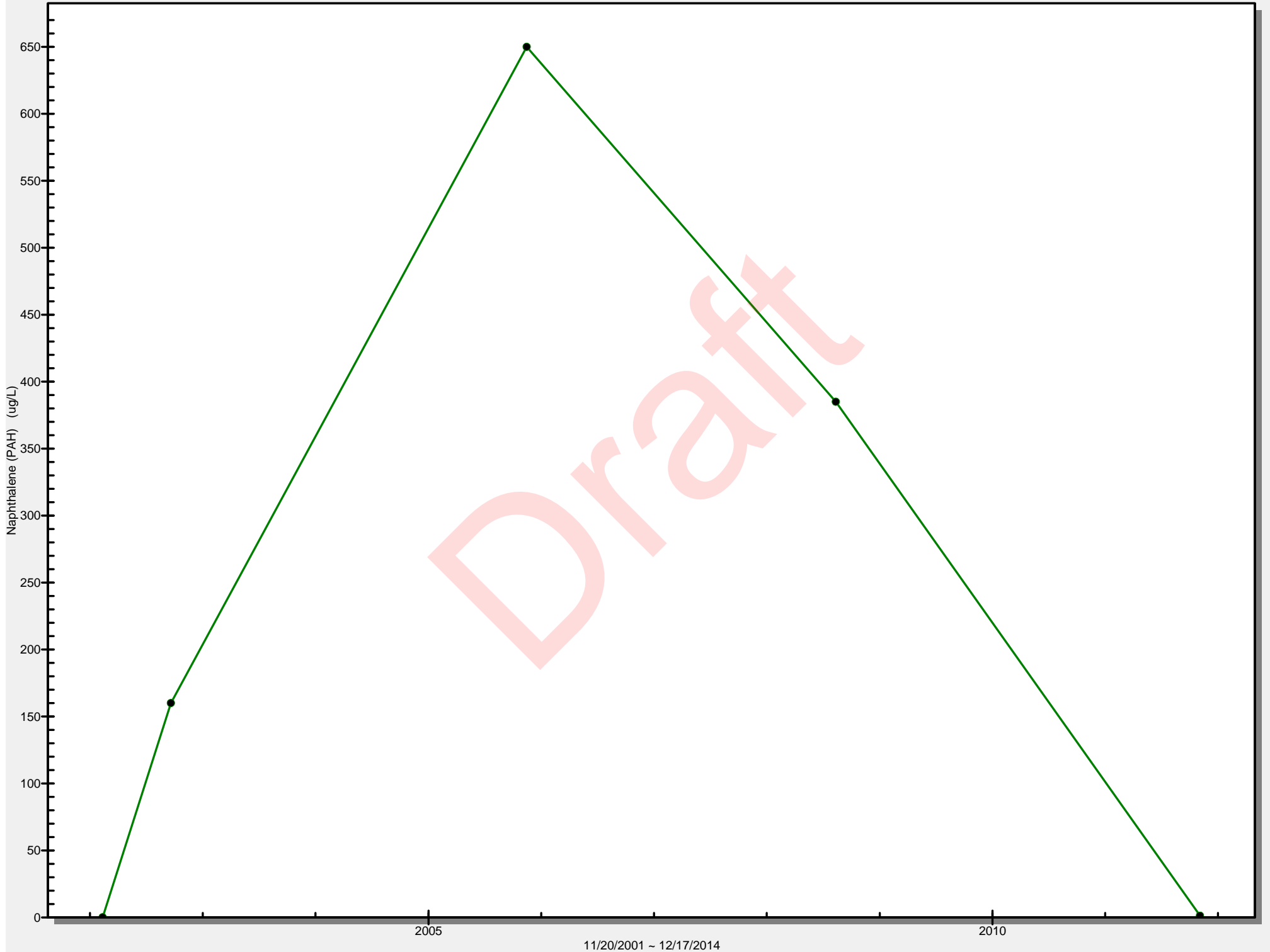
Well MW-2
PAH Naphthalene Concentration in Groundwater



Draft

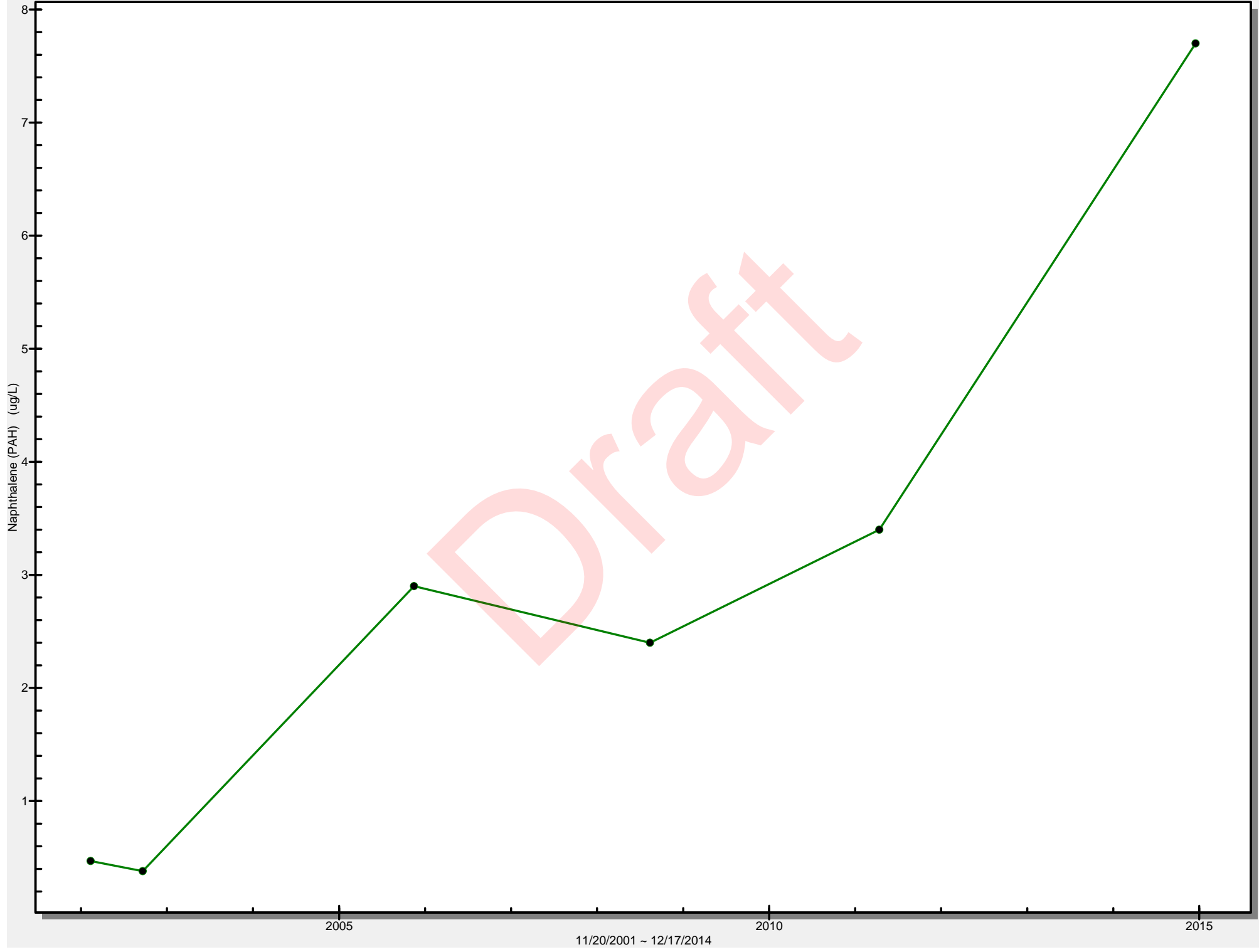
Well MW-3

PAH Naphthalene Concentration in Groundwater



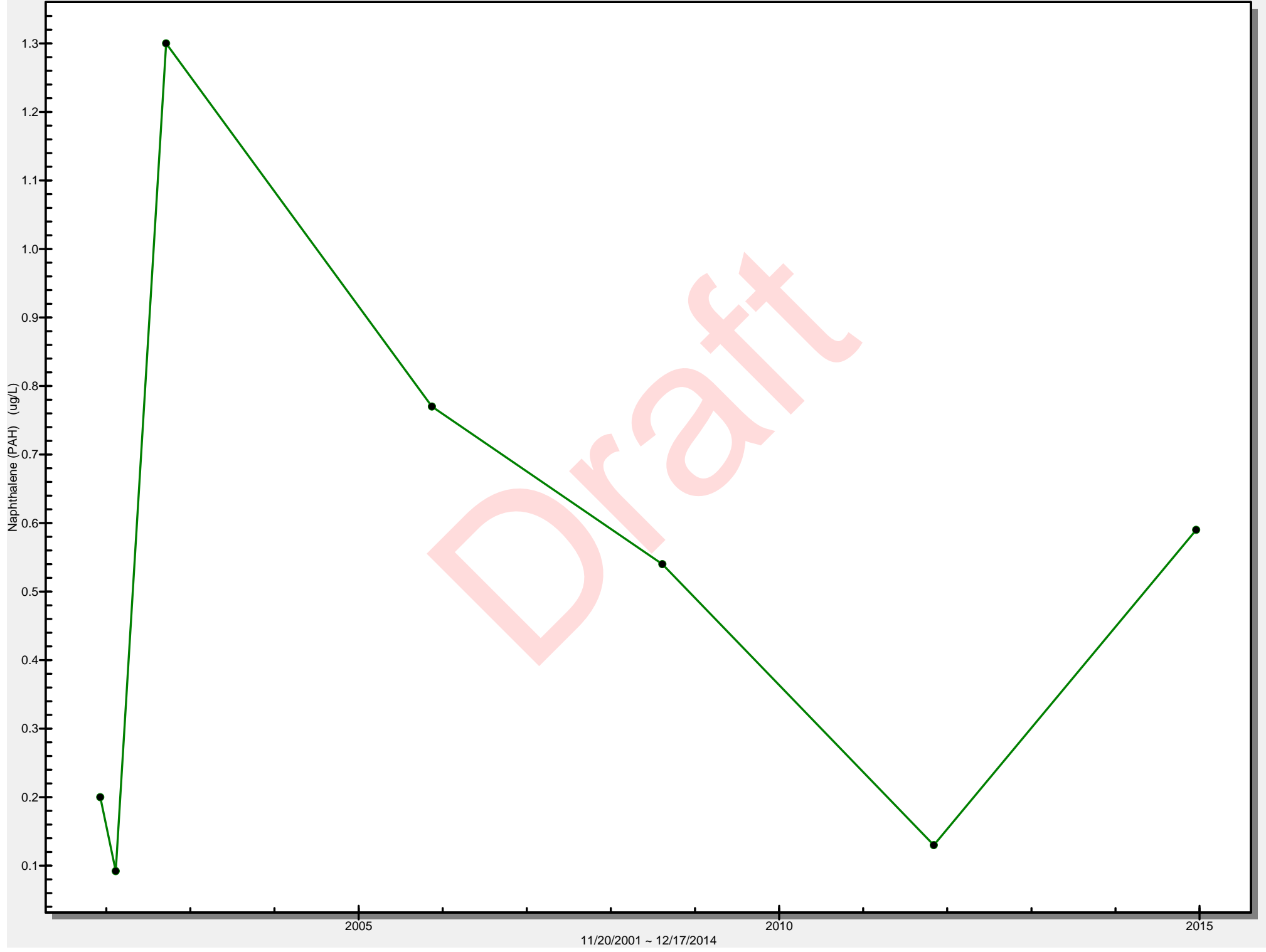
Draft

Well MW-4
PAH Naphthalene Concentration in Groundwater



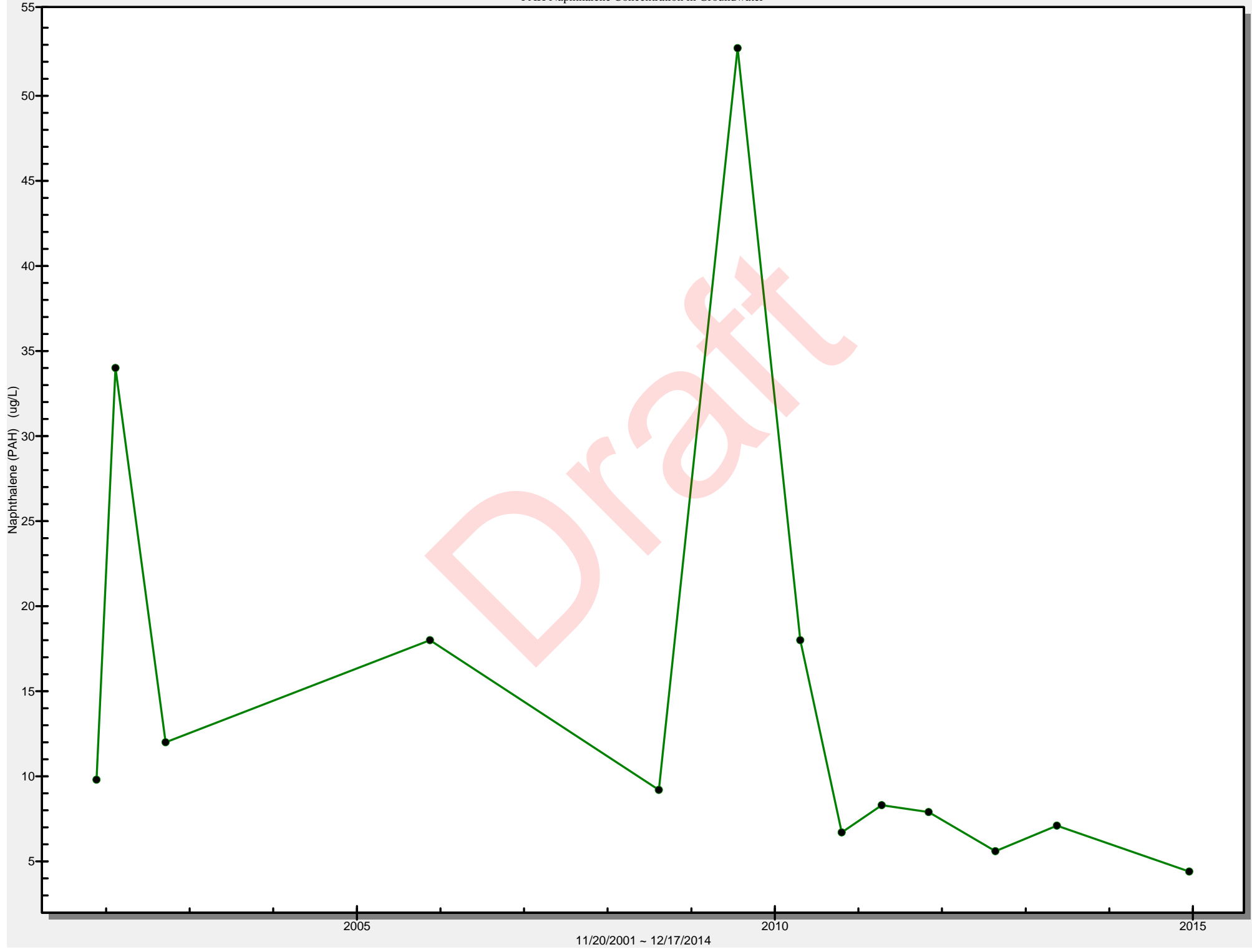
Well MW-5

PAH Naphthalene Concentration in Groundwater

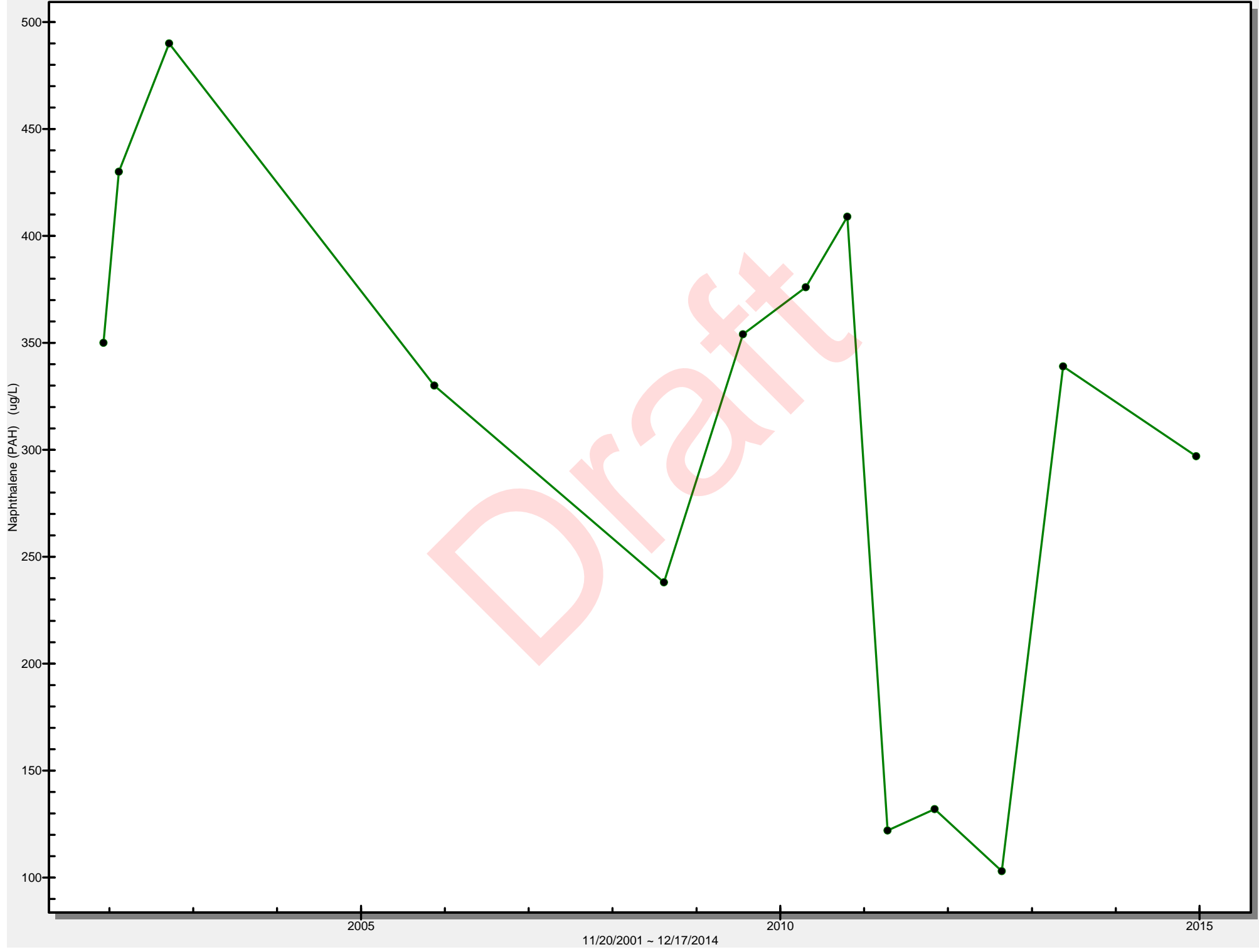


Draft

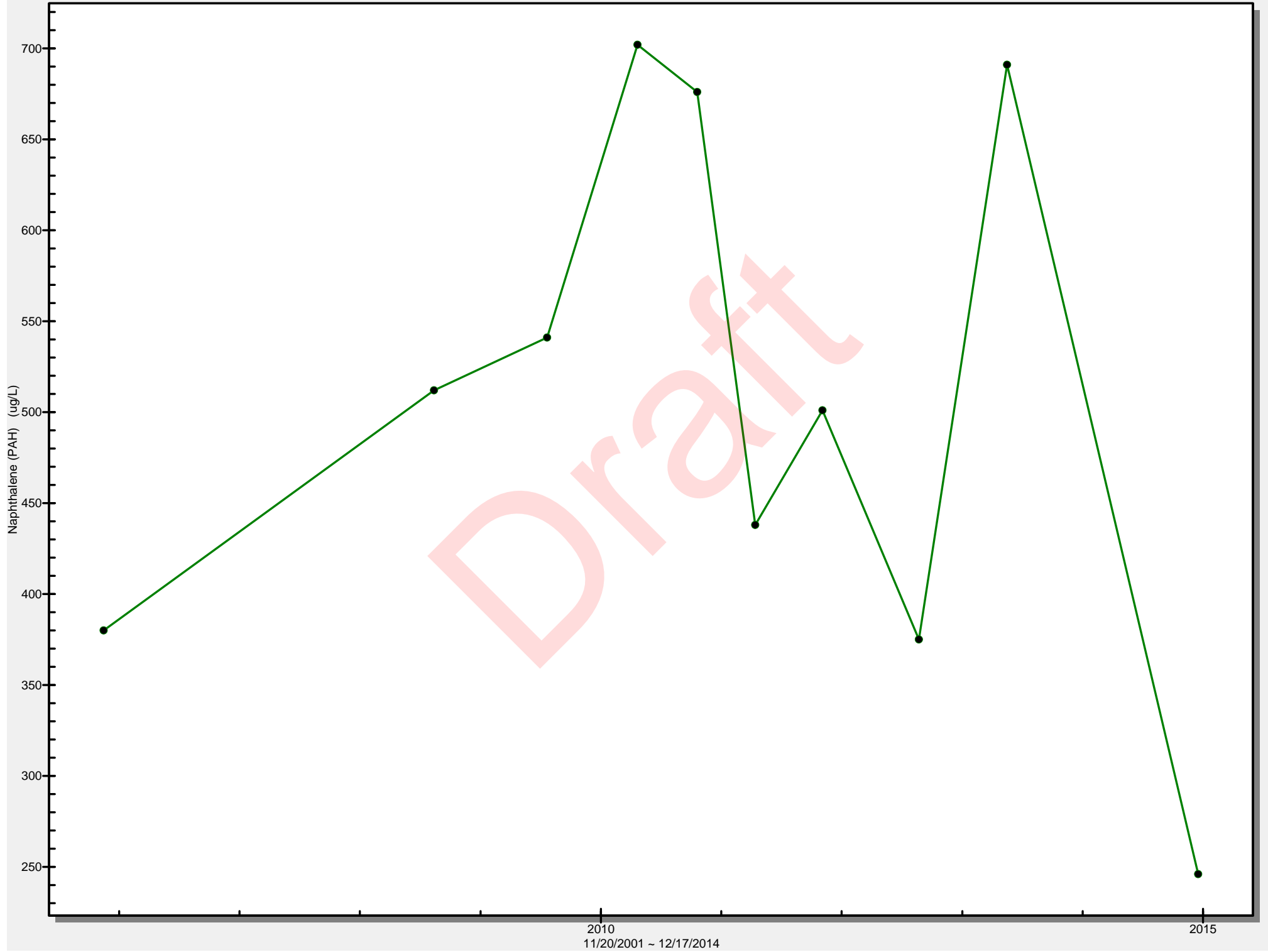
Well MW-6
PAH Naphthalene Concentration in Groundwater



Well MW-7
PAH Naphthalene Concentration in Groundwater



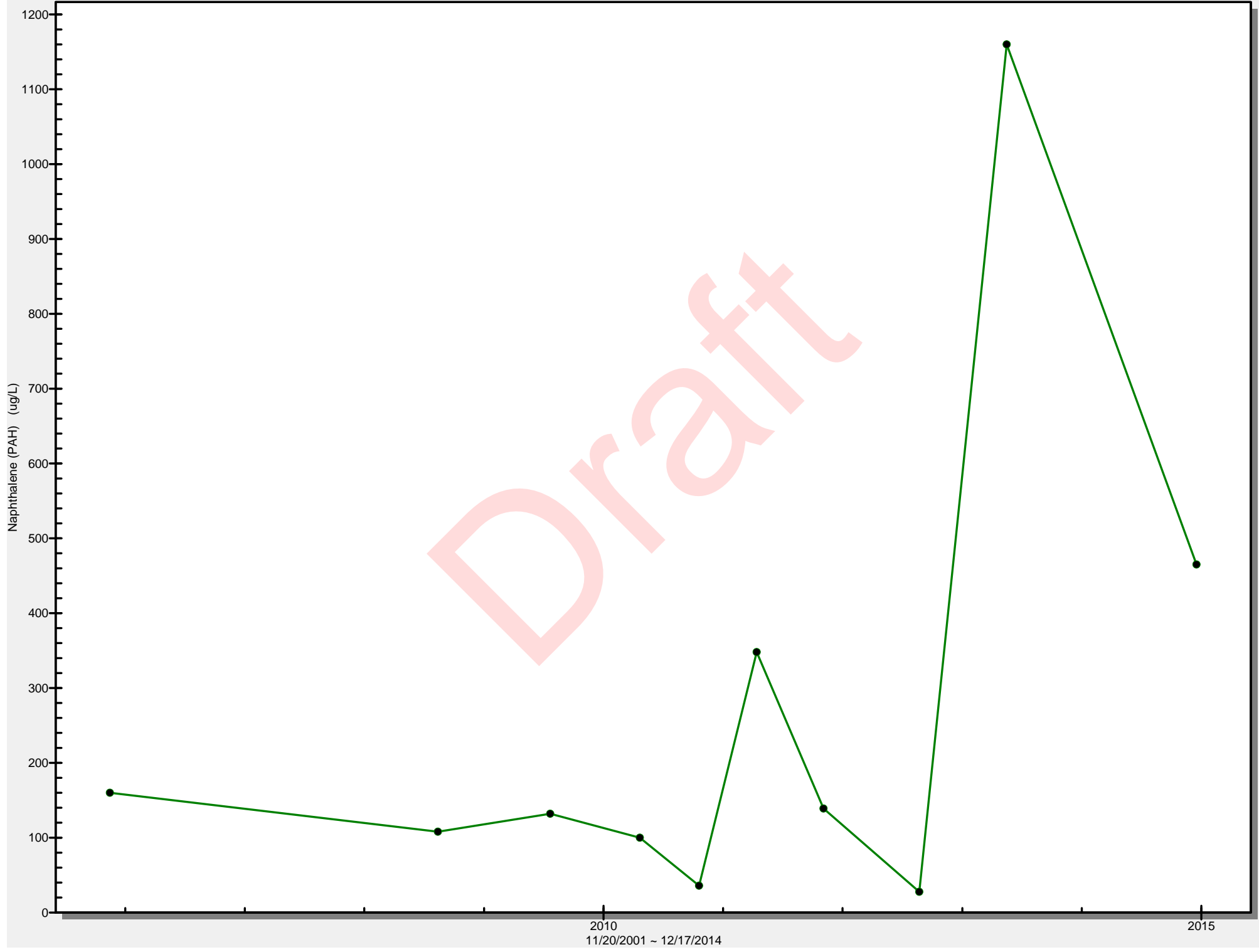
Well MW-8
PAH Naphthalene Concentration in Groundwater



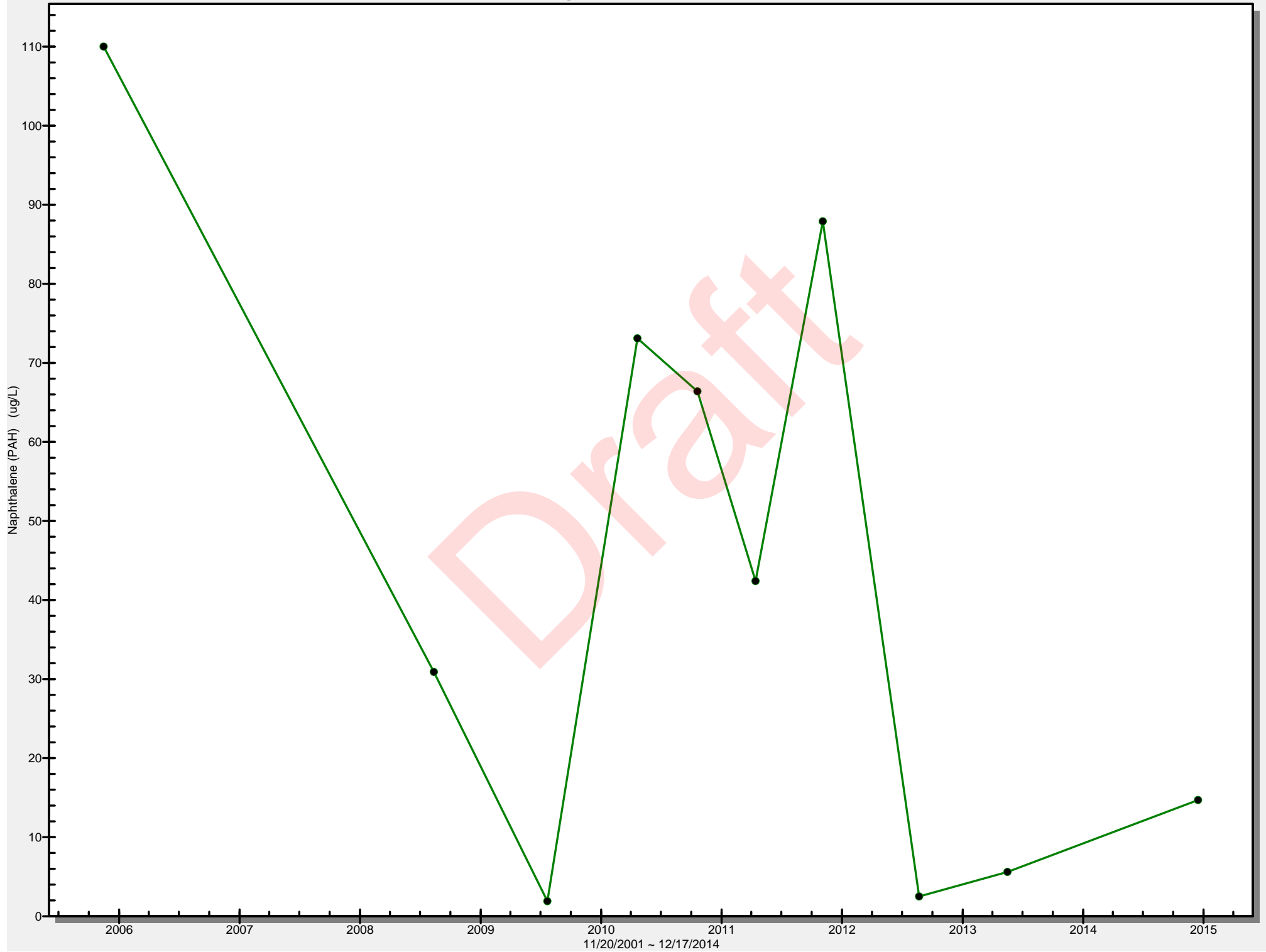
2010
11/20/2001 ~ 12/17/2014

2015

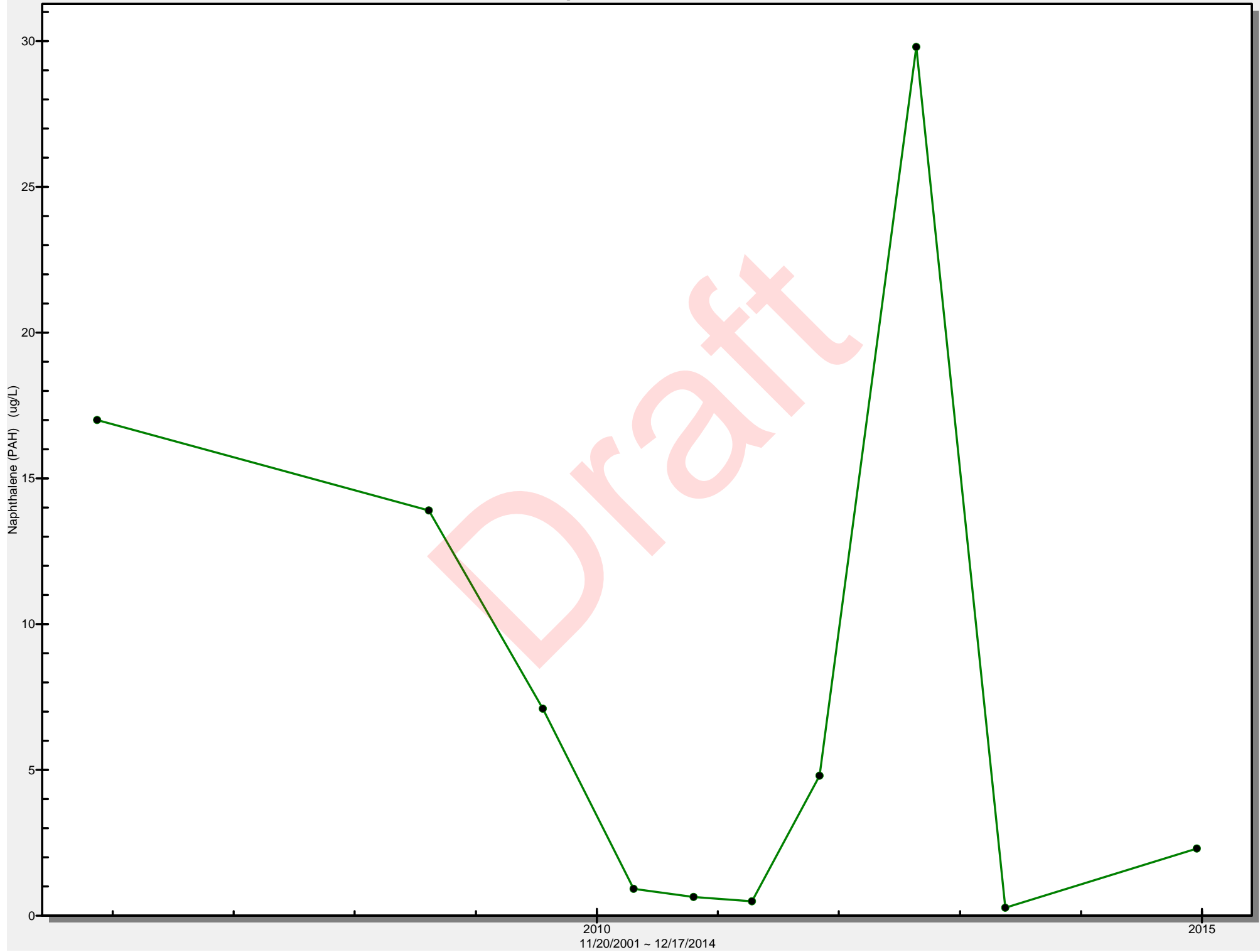
Well MW-9
PAH Naphthalene Concentration in Groundwater



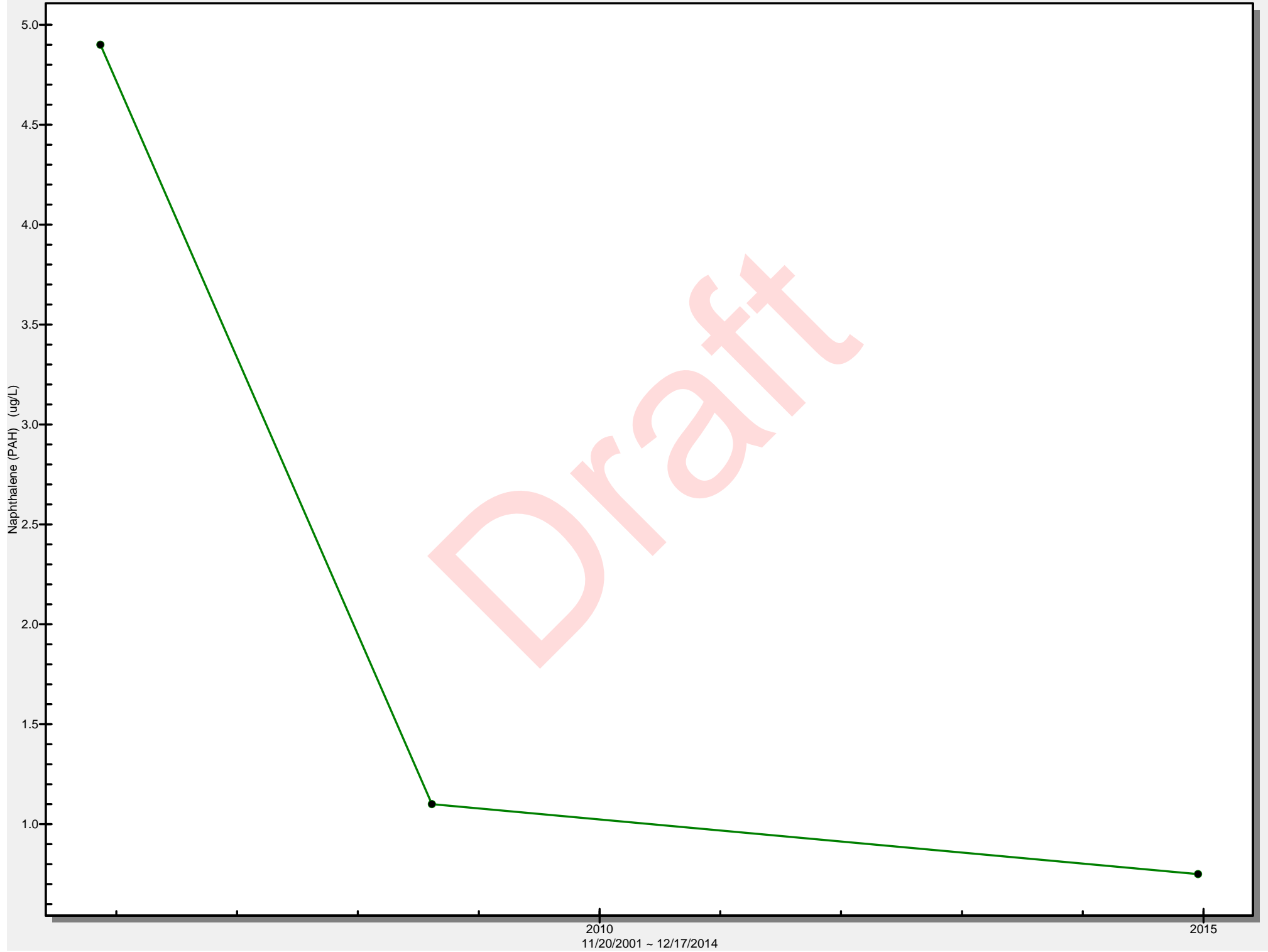
Well MW-10
PAH Naphthalene Concentration in Groundwater



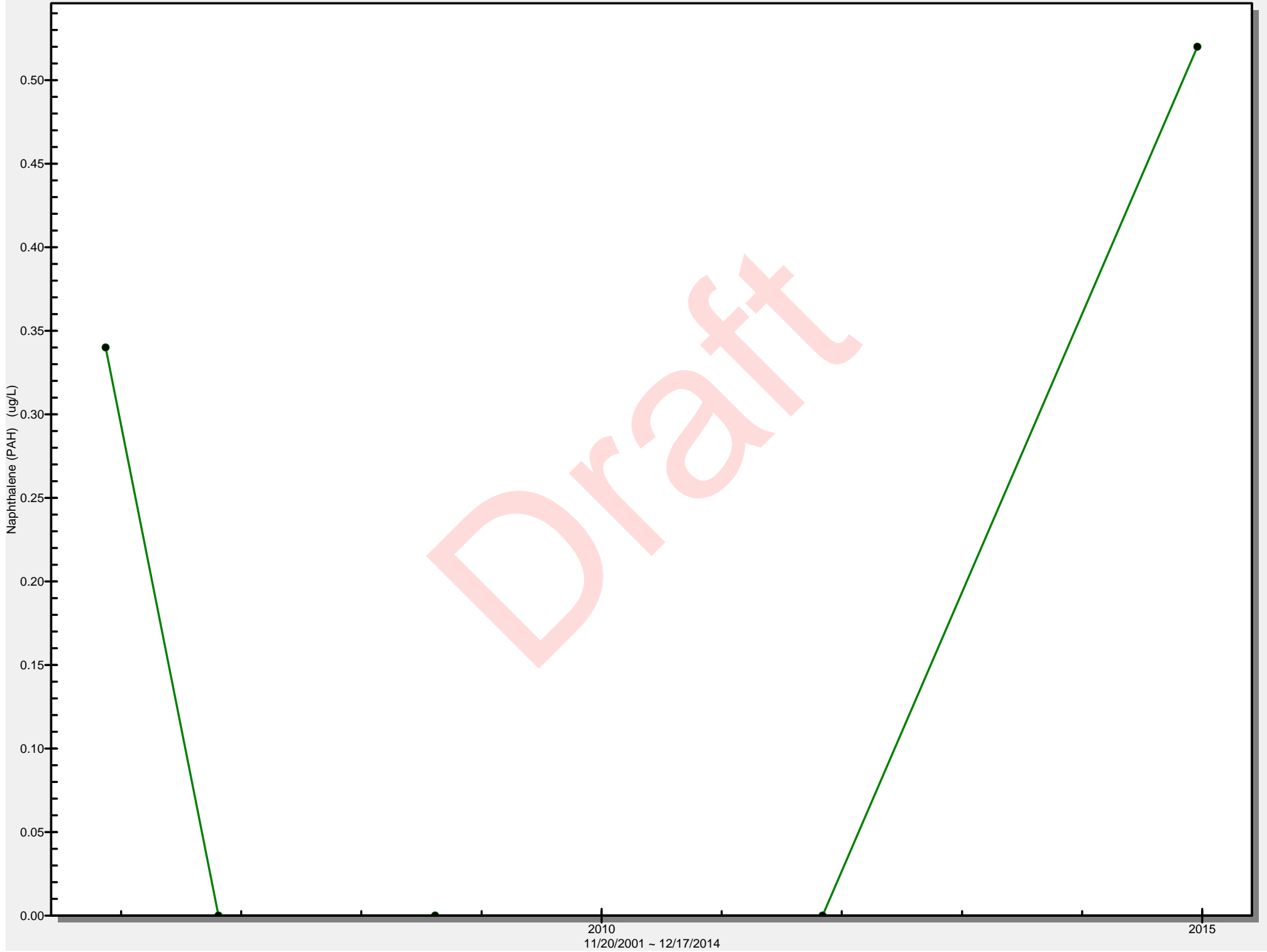
Well MW-11
PAH Naphthalene Concentration in Groundwater



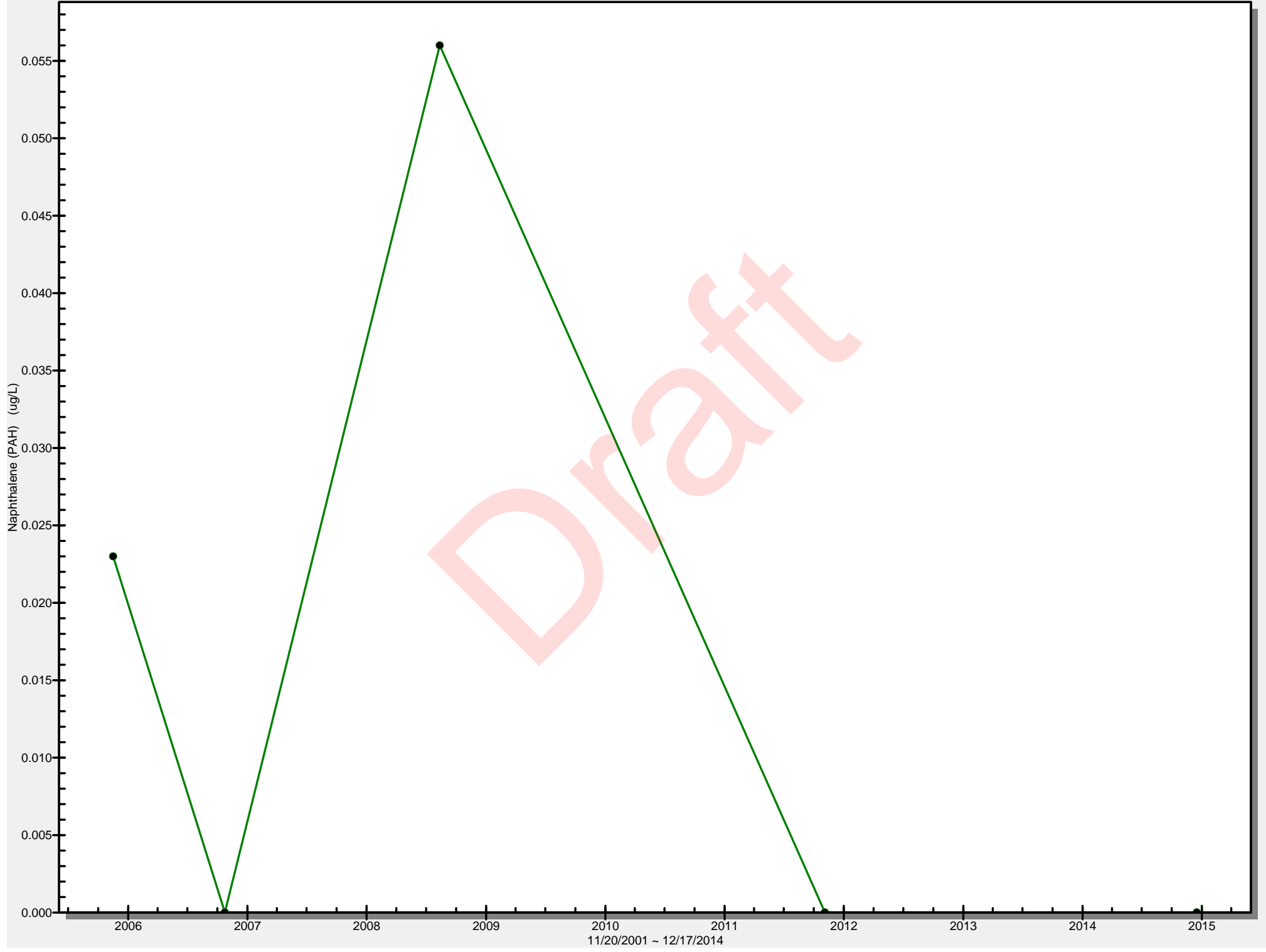
Well MW-12
PAH Naphthalene Concentration in Groundwater



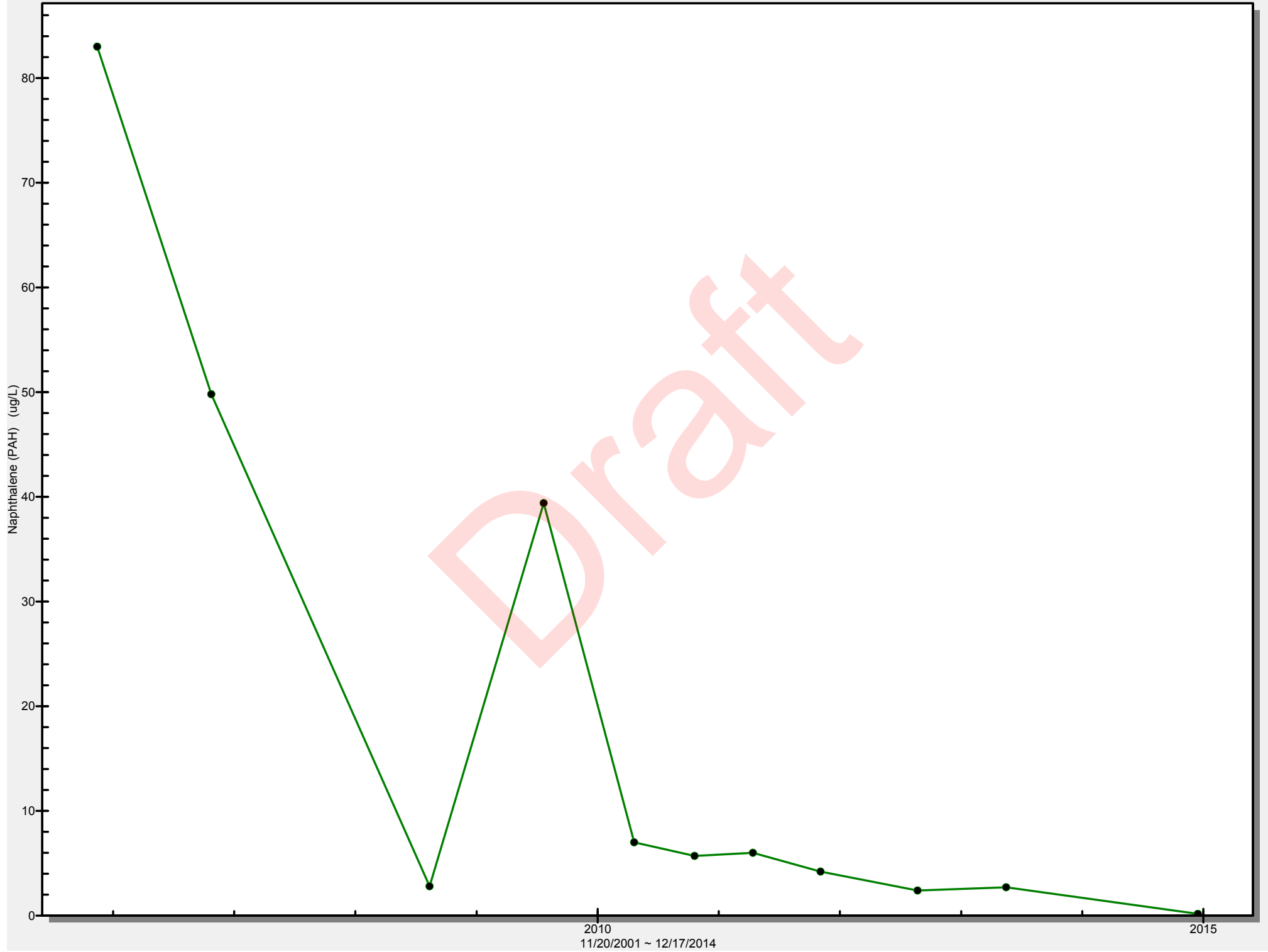
Well MW-13
PAH Naphthalene Concentration in Groundwater



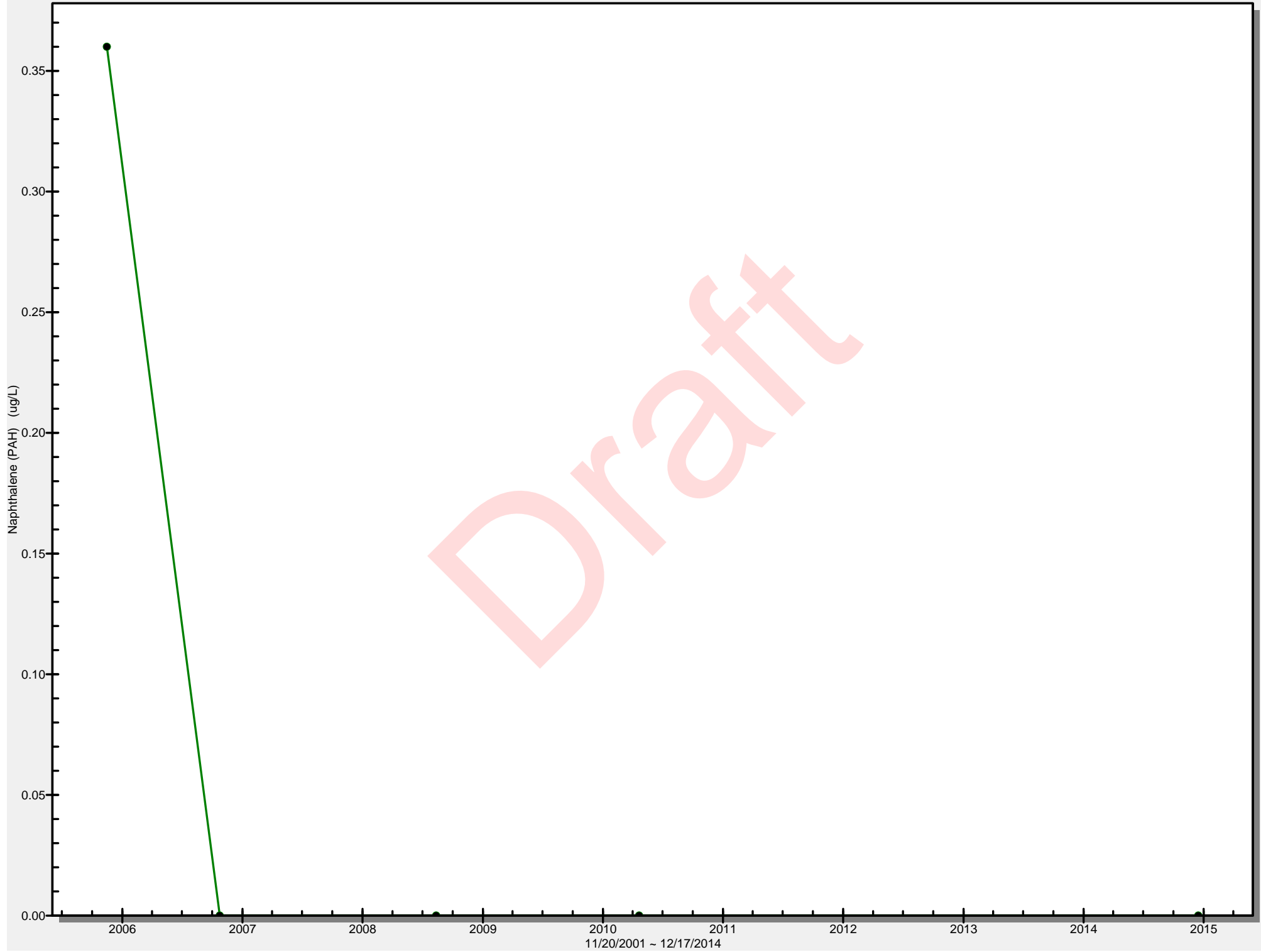
Well MW-14
PAH Naphthalene Concentration in Groundwater



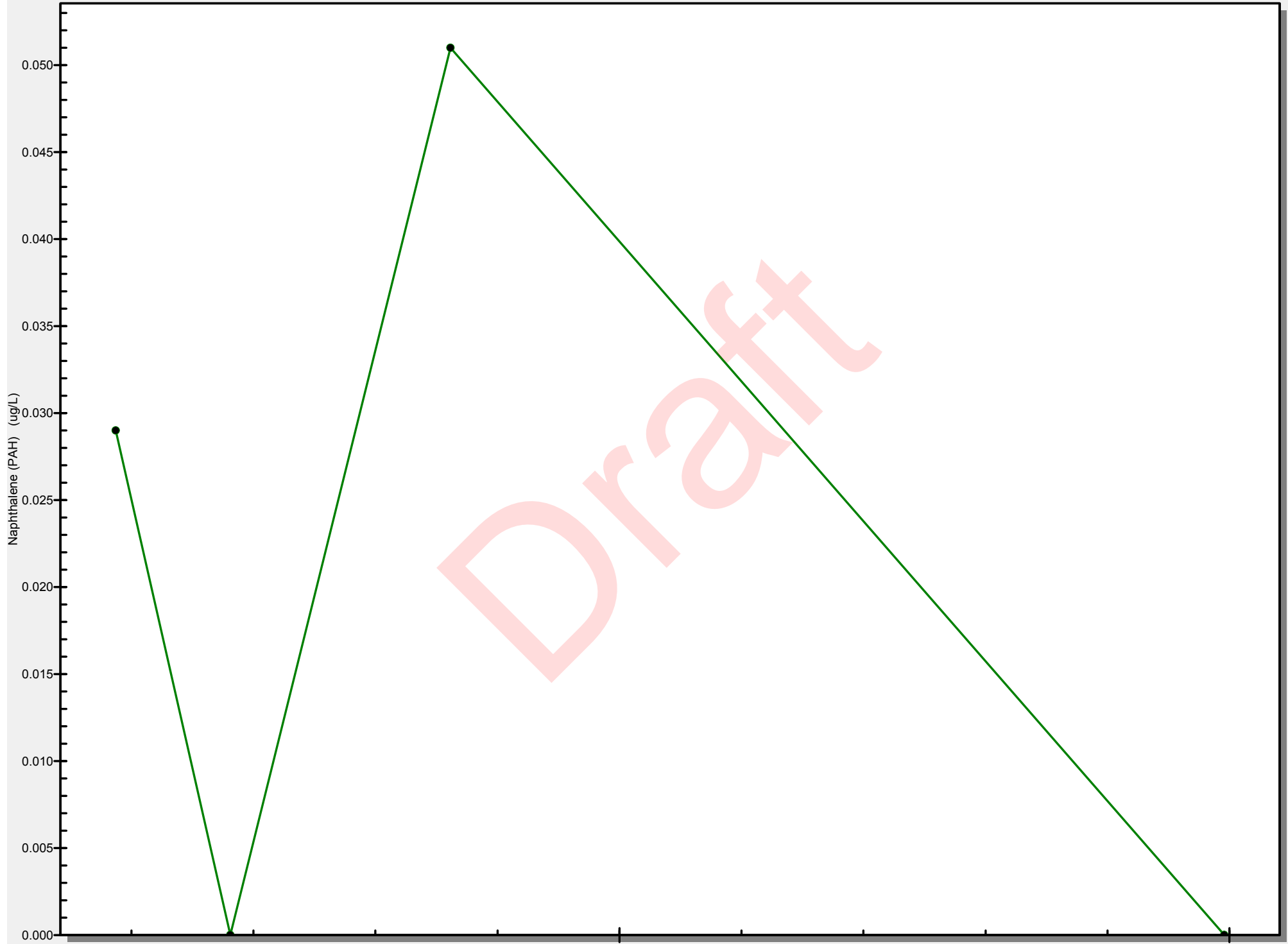
Well MW-15
PAH Naphthalene Concentration in Groundwater



Well MW-16
PAH Naphthalene Concentration in Groundwater



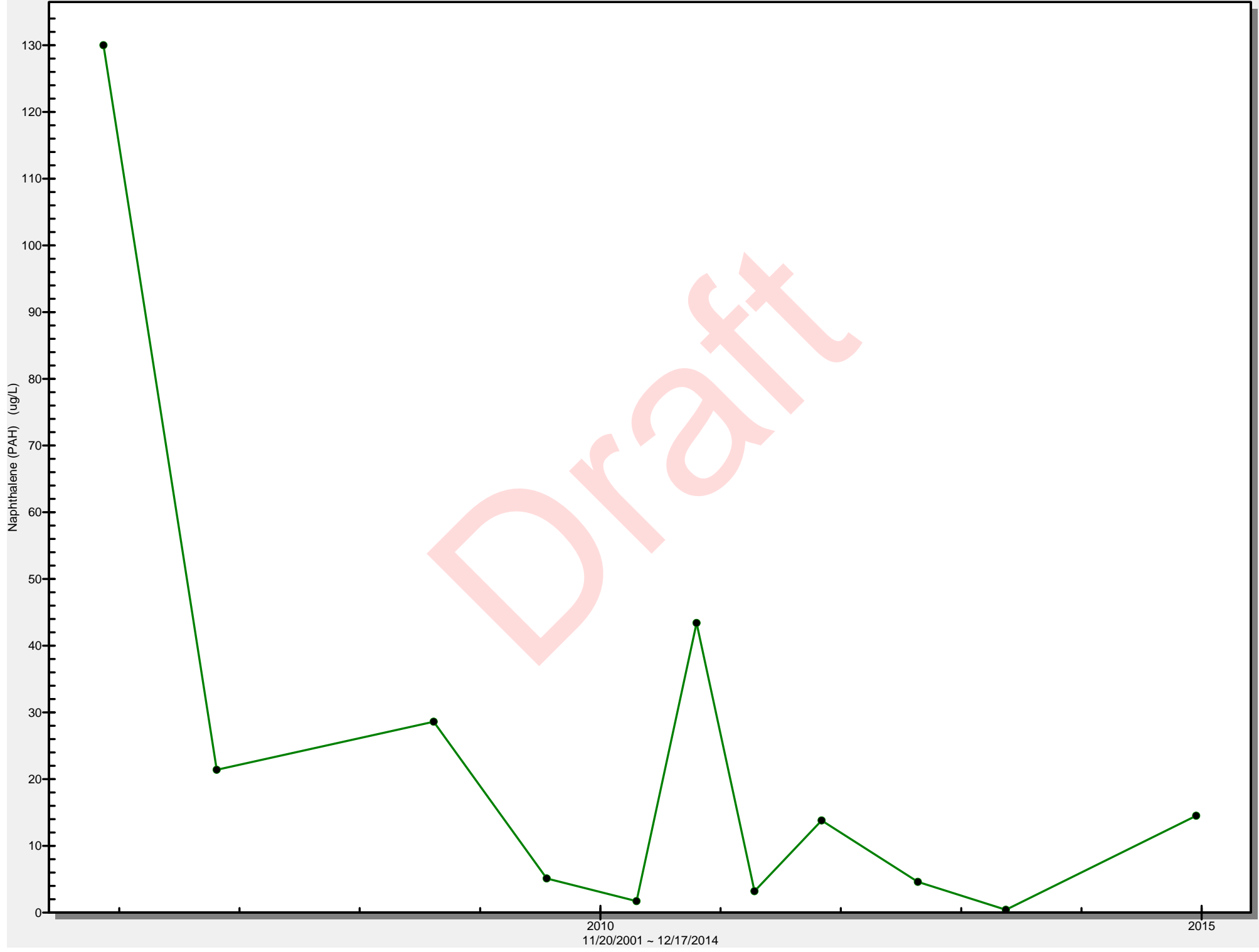
Well MW-17
PAH Naphthalene Concentration in Groundwater



2010
11/20/2001 ~ 12/17/2014

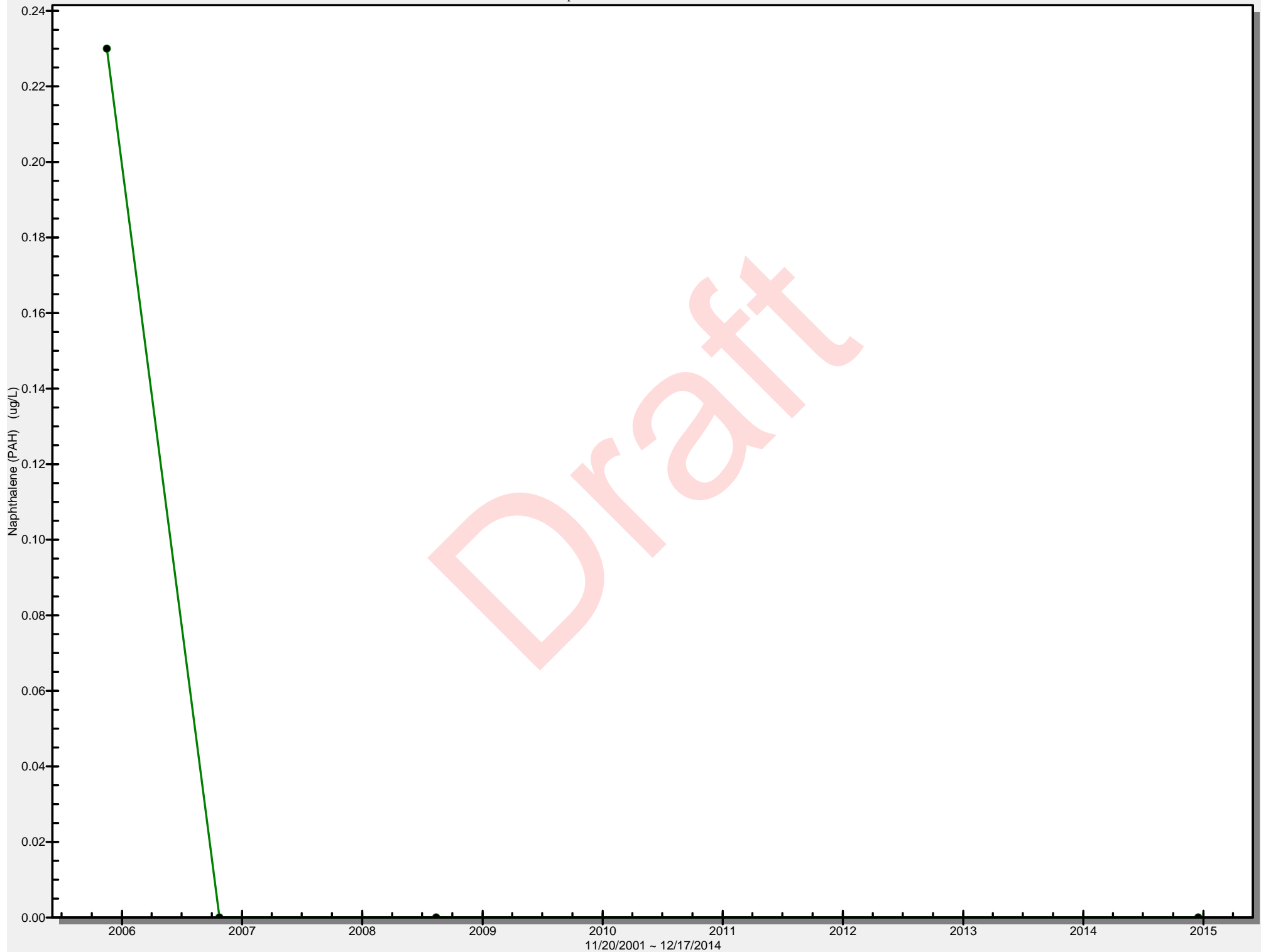
2015

Well MW-20
PAH Naphthalene Concentration in Groundwater



Draft

Well MW-21
PAH Naphthalene Concentration in Groundwater



Well MW-22
PAH Naphthalene Concentration in Groundwater

