

June 12, 2015

Mr. Tauren Beggs
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Subject: **2014 Expanded Down-Gradient Investigation and Groundwater Monitoring Letter Report
Former Town of Newton Gravel Pit, 3130 Hecker Road, Manitowoc, Wisconsin
WDNR BRRS No. 02-36-000268
WDNR FID No. 436104020**

Dear Mr. Beggs,

AECOM Technical Services, Inc. (AECOM), on the behalf of the City of Manitowoc, is pleased to submit this 2014 Expanded Down-Gradient Investigation and Groundwater Monitoring Letter Report for the Former Town of Newton Gravel Pit site. The report briefly summarizes site background information, describes the expanded investigation activities, and presents the results of the 2014 annual groundwater sampling. Supporting tables, figures, field forms, and laboratory reports are included as attachments.

A specific Silver Creek surface water sampling event was conducted in September 2014 and reported under a separate cover. The surface water sampling event results have been incorporated into this report for reporting consistency. Additionally, all 2014 quarterly Potable Well Monitoring Letter Reports have been provided under separate covers.

Background Information

The Former Newton Gravel Pit property is owned by the City of Manitowoc, is approximately 58 acres in size, and is located at 3130 Hecker Road in the Town of Newton, Manitowoc County Wisconsin (See Figure 1). Within the 58 acres, approximately one acre along the western property boundary was the location of a disposal pit that received industrial wastes (the Western Source Area).

The land use in the vicinity of the property is rural. Bordering the property to the west is an active gravel pit, to the north is farmland and forest, to the east is farmland and rural residences, and to the south is farmland and an active gravel pit. A small creek, Silver Creek, flows through the property from the north/northwest to the south/southeast. Site features are shown on Figure 2.

The Western Source Area is located on an elevated area of the property. Former gravel pit operations have lowered the ground surface elevation to the west from 15 to 20 feet and to the east approximately 30 feet.

Site investigation activities have been ongoing since 1991. The activities have delineated soil impacts in the Western Source Area, defined a light non-aqueous phased liquid (LNAPL) within the source area, and identified both a shallow groundwater contaminant plume that extends east-southeast to Silver Creek and deeper groundwater impacts continuing to the southeast.

Previous to the current monitoring events, the most recent groundwater monitoring occurred in September 2013¹.

Presented below is the 2014 groundwater monitoring report for the non-potable groundwater monitoring wells associated with the Western Source Area.

Scope of Work

The 2014 approved scope of work included an expanded down gradient investigation with the installation of an additional 15 groundwater monitoring wells. Following the well installations, a complete annual site-wide groundwater monitoring event took place in November 2014. In general, AECOM's scope of services included the following activities:

- Project management, including health and safety management.
- Installation and development of 15 wells: PZ-16A, PZ-16B, PZ-16C, WT-24, PZ-24A, PZ-24B, PZ-24C, WT-25, PZ-25A, PZ-25B, PZ-25C, WT-26, PZ-26A, PZ-26B, and PZ-26C.
- Measurement of groundwater elevations and LNAPL levels in monitoring wells.
- Collection of groundwater samples for volatile organic compound (VOC) laboratory analysis.
- Surveying of newly installed water table wells and piezometers.
- Mapping of groundwater flow in different aquifers of the local and the regional area.
- Creating cross-sections with the boring logs from the newly installed wells, potable wells, and historic boring and wells from the site.
- Calculating the hydraulic gradient across the different aquifers to determine the rate of groundwater flow.
- Preparation of a groundwater monitoring letter report.

Site-specific procedures are described below for the well installation, well development, groundwater sampling, and LNAPL measurements.

¹ Former Town of Newton Gravel Pit 2013 Groundwater Monitoring Letter Report, BRRTS No. 02-36-000268, AECOM Project No: 60135471(82518), May 13, 2014.

Well Installation

The 15 additional water table wells and piezometers (PZ-16A, PZ-16B, PZ-16C, WT-24, PZ-24A, PZ-24B, PZ-24C, WT-25, PZ-25A, PZ-25B, PZ-25C, WT-26, PZ-26A, PZ-26B, and PZ-26C) were installed by Cascade Drilling using a 600T sonic rig. The wells were installed October 27 thru November 4, 2014, and are located as follows.

- The location for PZ-16A, PZ-16B, and PZ-16C were adjacent to existing wells WT-16 and PZ-16.
- Well nest number 24 was located on the property at 3320 Hecker Road, northwest of Silver Creek.
- Well nest number 25 was located on the 3320 Hecker Drive property, southeast of Silver Creek and directly northwest of the property at 3518 Hecker Road.
- Well nest number 26 was located on the Gravel Pit property, 3130 Hecker Road, just south of the intersection of Gravel Pit Road and Hecker Road.

The wells were installed vertically as follows:

- Water table wells (WT-24, WT-25, and WT-26) were installed across the water table.
- A-series piezometers (PZ-16A, PZ-24A, PZ-25A, and PZ-26A) were installed to an approximate elevation of 630 feet above MSL (mean sea level), approximately midway between the ground surface and the bedrock surface.
- B-series piezometers (PZ-16B, PZ-24B, PZ-25B, and PZ-26B) were installed to an approximate elevation of 600 feet above MSL, just above the bedrock surface.
- C-series piezometers (PZ-16C, PZ-24C, PZ-25C, and PZ-26C) were installed approximately 15 feet into the dolostone bedrock.

The location of the wells were chosen because they are down-gradient of the western source area, they are within the historical flow path of the known groundwater plume, and so that the resulting well nests can be used to establish vertical gradients of contaminant transport along with contamination transport in the bedrock. See Figure 2 for well locations.

The wells were constructed as follows:

- The new water table wells were constructed of 2-inch (I.D.), 10-foot long flush-threaded 0.010-inch slot, Schedule 40 PVC screen with Schedule 40 PVC riser.
- The piezometers in the A-series and PZ-16B, PZ-24B, and PZ-25B wells were constructed of 2-inch (I.D.), 5-foot long flush threaded 0.010-inch slot, Schedule 40 PVC screen with Schedule 40 PVC riser.
- The piezometers in the C-series and PZ-26B wells were constructed of 2-inch (I.D.), 5-foot long flush-threaded 0.010-inch slot, Schedule 80 PVC screen with Schedule 80 PVC riser.

Borehole drilling and piezometer installation was conducted consistent with standard field methodologies and Wisconsin Administrative Code (WAC) Chapter NR 141. Soil boring logs (WDNR Form 4400-122) and monitoring well construction forms (WDNR Form 4400-113A) are provided in Attachment A.

Well Development

The monitoring wells and piezometers were developed in accordance with WAC Ch. NR 141. Well development began on October 30, 2015 and concluded on November 11, 2014. Monitoring well development forms (Form 4400-113B) are provided in Attachment A.

Groundwater Monitoring

Groundwater monitoring activities occurred the week of November 12, 2014.

Groundwater monitoring utilized newly installed and existing groundwater monitoring wells and piezometers. Groundwater and/or LNAPL elevations were collected from 45 locations prior to groundwater sampling.

Water levels were measured in-situ using a Heron Instruments electronic water level. NAPL/free product levels were measured in-situ using a Solinst Oil Water Interface Meter Model 122 electronic NAPL/water level indicator. Groundwater and LNAPL measurements were made to the nearest 0.01 foot from the reference points marked on the top of each well casing.

Groundwater field screening measurements used a handheld YSI 556 MPS field meter to obtain dissolved oxygen, pH, conductivity, temperature, and oxidation/reduction (redox) potential measurements. Water was pumped from the wells to a flow-through cell, in which the water quality meter was inserted to contact the water pumped from the wells. Once readings stabilized, measurements of the above parameters were recorded. Samples were collected utilizing a low flow submersible Proactive Hurricane Pump or a peristaltic pump with disposable tubing and transferred to the appropriate laboratory supplied sample containers. Samples were labeled and stored on ice prior to shipment to the laboratory.

Groundwater samples for laboratory analysis were submitted to a WAC Chapter NR 149 certified laboratory (Synergy Environmental Lab, Inc., Appleton, Wisconsin) for analyses of VOCs (EPA Method SW 8260B).

Well purging and sample collection forms are included in Attachment B.

Survey

On November 17, 2014, AECOM surveyed in the location and elevation of 15 new monitoring wells.

The survey results have been incorporated into the groundwater elevation data and the site features mapping.

Monitoring Results

The results for the November 2014 groundwater and September 2014 surface water monitoring events are presented below.

Groundwater Elevation and Flow Direction

All groundwater levels were measured on November 17, 2014.

Water elevations measured in the water table wells ranged between approximately 689 and 682 feet MSL. These data indicate a general groundwater flow direction to the east-southeast within the shallow local groundwater flow system (sand and gravel outwash) that is consistent with previous data. The exception to this generalized flow direction is the area with the Silver Creek meander, where an apparent groundwater divide creates a shallow groundwater flow system towards the creek (See Figure 3).

Groundwater measured in the mid-level A-series piezometers (screened approximately 630 feet MSL within sand and gravel outwash) ranged between approximately 683 and 678 feet MSL. These data indicate groundwater flow within the mid-level unconsolidated aquifer to be east-southeast (See Figure 4).

Groundwater measured in the B-series piezometers (screened approximately 600 MSL primarily within clay till immediately above the top of bedrock) ranged between approximately 682 and 677 feet MSL. These data indicate groundwater flow within the deep unconsolidated aquifer to be east-southeast (See Figure 5).

Groundwater measured in the C-series piezometers (screened in bedrock) ranged between approximately 681 and 671 feet MSL. These data indicate bedrock groundwater flow to the east (See Figure 6).

A summary of groundwater elevations is presented in Table 1 and interpreted groundwater flow maps are presented in Figures 3, through 6.

Hydraulic Gradients

Horizontal and vertical hydraulic gradients were calculated based on groundwater elevation data collected November 17, 2014, as provided in Table 1.

The vertical hydraulic gradients are variably low downward or upward. Downward vertical gradients range between 0.0007 and 0.09 feet/foot. Upward vertical gradients range between 0.005 and 0.03 feet/foot. Vertical gradient calculations are provided in Attachment C.

Average calculated horizontal gradients for the water table and A-series, B-series, and C-series (bedrock) piezometric surfaces were determined from flow lines shown on Figures 3 through 6. As presented in Attachment C, horizontal hydraulic gradients were calculated at 0.005, 0.003, 0.004, and 0.13 feet/foot for the water table, and A-series, B-series, and bedrock piezometric surfaces respectively.

Groundwater Flow Velocity

The average linear groundwater flow velocities for the sand and gravel outwash, glacial till, and bedrock were calculated using a modification of Darcy's Law:

$$V = \frac{K I_h}{n_e}$$

Where: V = average linear velocity
 K = horizontal hydraulic conductivity
 I_h = horizontal hydraulic gradient
 n_e = effective porosity

Groundwater flow velocity calculations and assumptions for water table wells and A-series, B-series, and C-series piezometers are presented in Attachment C. An average linear flow velocity of 0.14 ft/day (52 ft/yr) was calculated for the sand and gravel outwash using the mean hydraulic conductivity of water table wells (2.5×10^{-3} cm/sec), an average horizontal gradient (0.005 feet/foot), and an estimated effective porosity of 0.25.

Similarly, an average linear flow velocity of 0.085 ft/day (31ft/yr) was calculated for the sand and gravel outwash using the mean hydraulic conductivity of 2.5×10^{-3} cm/sec, an average horizontal gradient for the mid-level A-series piezometers (630 feet MSL) of 0.003 feet/foot, and an estimated effective porosity of 0.25.

Using the horizontal hydraulic gradient data for the B-series piezometers (600 feet MSL) of 0.004 feet/foot, an estimated hydraulic conductivity of 1×10^{-5} cm/sec, and an estimated effective porosity of 0.40, the average linear groundwater velocity in the glacial till was calculated at 0.00028 ft/day or about 0.1 ft/year.

Using the calculated horizontal hydraulic gradient for the C-series piezometers of 0.013 feet/foot, and estimated hydraulic conductivity of 1×10^{-4} cm/sec, and an estimated effective porosity of 0.20, the average linear groundwater velocity in the bedrock was calculated at 0.018 ft/day or about 6.7 ft/year. This calculated flow velocity for the bedrock does not account for fracture flow or potential preferential flow along bedding planes.

LNAPL Thickness

LNAPL continues to be present in wells: WT-02, WT-09, and WT-14. During the November 2014 sampling event, LNAPL thickness within the 2-inch diameter wells was measured at approximately 1.25 feet, 1.09 feet, and a sheen, respectively. A summary of LNAPL elevations and thickness are presented in Table 1. Groundwater has not been sampled from these wells because of the measureable amounts of LNAPL free product.

Groundwater Field Screening Results

Field screening measurements for pH, temperature, dissolved oxygen, and oxidation reduction potential indicate that conditions for remediation by natural attenuation of groundwater contaminants continue to be favorable. Field screening data are summarized in Table 2.

Site Cross-Sections

Three generations of cross-sections have been created since the beginning of the investigations at the gravel pit.

The original cross-section for the site was produced for the 1996 *Site Investigation and Remedial Action Options Report*². The cross-section included Hydropunch® soil boring data completed to the bedrock surface. Figure 7, provides a copy of *Geologic Cross Section A-A' and Vertical Distribution of Non-Chlorinated and Chlorinated VOCs*, as presented in the 1996 report. Note that Figure 7 includes 1996 groundwater quality data and it has not been updated with more recent data.

Two additional cross-sections were completed in 2013 and are provided in Figures 8 and 9 as cross-section B-B' and C-C' respectively. The goal of these cross-sections is to provide detail relative to the Western Source area. The lateral extent of cross-section B-B' has been expanded to incorporate the stratigraphy from the 2014 soil borings/well installations. Both cross-sections have been updated with 2014 VOC groundwater data.

The most recent iteration of cross sections, cross-sections D-D' and E-E', were completed in 2014 to provide regional views extending eastward to County Highway CR. Cross-section D-D', Figure 10, begins in the source area and heads east-northeast and cross-section E-E', Figure 11, continues cross-section B-B' to the southeast. The cross-sections incorporate the stratigraphy from the newly installed wells and piezometers, information from well construction reports (WCRs) for the newly installed replacement private potable wells, and historic private potable wells WCRs. Since there is a mixture of boring logs from different times and different professionals, AECOM interpreted the multiple stratigraphy units into three main units; coarse grained material (sand and gravels), fine grained material (silts, clays, and hardpans), or bedrock. This provides interpreted and generalized cross-sections appropriate for a regional view.

Groundwater Laboratory Analytical Results

Groundwater analytical results were compared to applicable enforcement standards (ES) and preventative action limits (PAL) found in WAC Chapter NR 140 Table 1 for Public Health Standards.

The discussion of the groundwater analytical results is presented in relationship to the Western Source Area. As such, the groundwater results are discussed as:

- Up-gradient,
- the Western Source Area,
- Down-gradient – west of Silver Creek,
- Down-gradient – the meander of Silver Creek,
- Down-gradient – southeast of Silver Creek, and
- Side-gradient – northeast, near Former Town of Newton Gravel Pit Entrance.

² *Site Investigation and Remedial Action Options Report*, Rust Environment and Infrastructure, Inc., June 1996.

The groundwater analytical results are summarized in Table 2 and shown on Figures 12 through 15. Laboratory analytical reports are included as Attachment D.

Up-gradient

- Well WT-19 was installed to delineate the up-gradient edge of the groundwater contaminant plume west of the Former Newton Pit property line.

VOC Discussion: WT-19 had only one VOC detection, trichloroethylene (TCE). The detection of TCE at 0.50 µg/L, which is at the PAL exceedance of 0.5 µg/L, and represents a decreasing concentration trend based on samples analyzed in 2007, 2012, 2013 and most recently in 2014.

- Wells WT-01 and PZ-01 were installed to delineate the up-gradient edge of the groundwater contaminant plume north of the Western Source Area. Both of these wells had no VOCs detected. This remains consistent with samples collected in 2013.

Western Source Area

- WT-09 was installed to delineate the southern perimeter of the source area. Groundwater was not sampled from WT-09 because of measurable LNAPL free product.
- Well WT-18 was installed to delineate the southern perimeter of the source area; south of WT-9.

VOC Discussion: WT-18 had multiple VOC detections. Benzene and vinyl chloride (VC) were detected at concentrations exceeding their respective ESs. Cis-1,2-DCE, naphthalene, and TCE were detected at concentrations exceeding their respective PAL values. Ethylbenzene, 1,1-Dichloroethane, n-propylbenzene, toluene, and xylene were detected at levels below their respective PALs.

- Well WT-10 was installed to delineate the southeastern perimeter of the source area.

VOC Discussion: WT-10 had several VOC detections; toluene, benzene, xylene, and the two daughter compounds cis-1,2-DCE and VC. Cis-1,2-DCE, VC, and benzene exceeded their respective ESs. Toluene and xylene were detected at levels below their respective PALs. In general, the concentrations of each of these analytes is consistent with previous sampling rounds except for benzene and xylene were both non-detects the year prior.

- Well WT-02 and PZ-02 were installed to delineate the eastern perimeter of the source area. Groundwater was not sampled from WT-02 because of measurable LNAPL free product.

VOC Discussion: PZ-02 remained consistent with previous years and has no VOCs detected.

- Well WT-02A was installed to delineate the eastern perimeter of the source area.

VOC Discussion: WT-02A had multiple VOC detections. ES exceedances include: TCE, cis-1,2-DCE, VC, benzene, naphthalene. Toluene and 1,1,1-trichloroethane exceeded their respective PALs. Ethylbenzene and xylene were both detected at levels below their respective PALs.

- Well WT-03 and PZ-03 were installed to delineate the northeastern perimeter of the source area.

VOC Discussion: WT-03 had several VOC detections. TCE exceeded its ES standard and cis-1,2-DCE exceeded its PAL standard. Other VOCs detected include 1,1-dichloroethene, tetrachloroethene (PCE), and 1,1,1-trichloroethane.

VOC Discussion: PZ-03 remained consistent with previous years and has no VOCs detected.

- Well WT-17 was installed to delineate the northern perimeter of the source area.

VOC Discussion: WT-17 had several detections of chlorinated VOCs consistent with 2013 sampling results. This includes TCE, cis-1,2-DCE, and VC, which exceed their respective ES. Detections of 1,1-dichloroethane, trans-1,2-dichloroethene, PCE, and 1,1,1-trichloroethane were all below their respective PALs.

- Well WT-14 was installed to delineate the western perimeter of the source area. It is located on the western property line. Groundwater has not been sampled from the well because it has visible amounts (sheen) of LNAPL free product.

Down-gradient – West of Silver Creek

- Well WT-13 was installed to replace a damaged well WP-02.

VOC Discussion: Well WP-02 historically had four consecutive rounds (1999 thru 2000) of sampling with no detectable VOCs. Historical VOC detections in WT-13 were limited to a single detection of chloromethane in 2007 which exceeded its PAL and a single detection of VC in 2012 which exceeded its ES. No VOCs were detected in samples collected from WT-13 in 2014. WT-13 represents the mid/down-gradient southern edge of the groundwater contaminant plume.

- Well WT-05, and piezometers PZ-05A and PZ-05B were installed down-gradient of well WT-13.

VOC Discussion: Well WT-05 exhibited three detections of VOCs including VC at a concentration that exceeds its ES along with TCE and cis-1,2-DCE detected above their PALs. The detection of these compounds and their respective concentrations are consistent with historical data from samples collected between 1994 and 2013.

No VOCs were detected in samples from PZ-05A and PZ-05B.

Wells WT-11 and WT-12 were installed to delineate the southern edge of the shallow down-gradient groundwater contaminant plume adjacent to and west of Silver Creek. Piezometer PZ-12 was added adjacent to monitoring well WT-12 in August 2013 to form a well nest. Piezometer PZ-12 was screened similar to the screened interval of PZ-16. In this way, the WT-12/PZ-12 well nest and the WT-16/PZ-16 well nest quantify potential groundwater impacts and characterize vertical hydraulic gradients within the local groundwater flow system on the west and east side of Silver Creek respectively.

VOC Discussion: WT-11 had 2 VOC detections TCE and cis-1,2-DCE that both exceed their respective ESs. WT-12 had three VOC detections TCE, cis-1,2-DCE and VC at concentrations that exceeded ESs. PZ-12 had detects of benzene, TCE, cis-1,2-DCE, and VC at concentrations that exceeded their respective ESs. No other VOCs were detected in these wells.

- Well nest WT-15 (well WT-15, piezometers PZ-15A, and PZ 15B) were installed to delineate the southern side-gradient groundwater contaminant plume – south of well nest WT-05.

VOC Discussion: No VOCs were detected in WT-15, PZ-15A, and PZ-15B in samples collected in 2014.

- Temporary wells WP-04, WP-06, and WP-07 were installed to delineate the northern edge of the shallow down-gradient groundwater contaminant plume adjacent to and west of Silver Creek.

VOC Discussion: Both WP-04 and WP-06 had VOC detections of cis-1,2-DCE and TCE. TCE was detected at both wells at concentrations that exceeded its PAL and cis-1,2-DCE exceeded its PAL at WP-06. WP-07 did not have any VOCs detected.

Down-gradient – the meander of Silver Creek

- Well WT-16 and piezometer PZ-16 were originally installed as down-gradient “sentinel wells” to monitor the down-gradient edge of the contaminant plume east of Silver Creek. In 2014, PZ-16A, PZ-16B, and PZ16C were added to form a well nest. Piezometer PZ-16A was screened at an elevation of 630 feet above MSL, PZ-16B was screened at 600 feet MSL, and PZ-16C was screened 15 feet into the bedrock. Having nested wells at varying depths, from the water table to the bed rock, allows for a vertical profile of contaminants of concern (COCs) as well as determining where the COCs are reaching the bedrock.

VOC Discussion:

Both WT-16 and PZ-16 had detects of benzene, cis-1,2-DCE and VC, at levels that exceeded their respective ESs. TCE were detected above their respective ESs in WT-16 and above their respective PALs in PZ-16. Additionally, trans-1,2-DCE was detected in only PZ-16 at a level below its PAL.

PZ-16A had VC above its ES and TCE above its PAL. Cis-1,2-DCE and benzene were detected below their respective PALs.

PZ-16B had VC above its ES and TCE above its PAL. Cis-1,2-DCE was detected below its PAL.

PZ-16C did not have any VOCs detected.

This round of groundwater samples from the WT-16 well nest indicates that:

- Concentrations and types of COCs decrease with depth.
- COCs do not appear to have entered bedrock at this location.
- Wells WT-20 thru WT-23. No VOCs were detected in wells WT-20, WT-21, WT-22, and WT-23. The continued lack of COCs in these water table wells may be attributed to the shallow, local groundwater flow direction within the Silver Creek meander (See Figure 3).
- Well WT-24 and piezometers PZ-24A, PZ-24B, and PZ-24C. The nest was installed down-gradient of the source area and at the same depths as the water table well and the piezometers in the WT-16/PZ-16 series. In this way, the WT-16/PZ-16A/B/C well nest and the WT-24/PZ-24A/B/C well nest quantify potential groundwater impacts and characterize vertical and horizontal hydraulic gradients within the local groundwater flow system of the meander of Silver Creek.

VOC Discussion:

WT-24 did not have any VOCs detected. The lack of VOCs in this water table well may be attributed to the shallow, local groundwater flow direction within the Silver Creek meander (See Figure 3).

PZ-24A had ES exceedances of both cis-1,2-DCE and VC. A PAL exceedance for benzene and trans-1,2-DCE detected below the PAL.

PZ-24B also had ES exceedances of both cis-1,2-DCE and VC. A PAL exceedance for benzene and trans-1,2-DCE detected below the PAL, but at concentrations generally less than PZ-24A.

PZ-24C had PAL exceedances of benzene and chloromethane. Chloromethane may not be a COC for this site.

This first round of groundwater samples from the WT-24 well nest indicates that:

- Concentrations and types of COCs decrease with depth.
- The appearance of benzene in the PZ-24C bedrock well may be an indicator that COCs are just starting to entered bedrock at this location.

Down-gradient – Southeast of Silver Creek

- Well WT-25 and piezometers PZ-25A, PZ-25B, and PZ-25C. The well nest was installed at the same depths as both the WT-16/PZ-16 series and the WT-24/PZ-24 series to further delineate the vertical and horizontal extent of the plume prior to reaching residential properties along Hecker Road.

VOC Discussion:

WT-25 had VC and cis-1,2-DCE at levels above their respective ESs along with a benzene PAL exceedance and a detection of trans-1,2-DCE below the PAL.

PZ-25A had a VC ES exceedance and cis-1,2-DCE at a level above its PAL.

PZ-25B had a VC ES exceedance and cis-1,2-DCE above its PAL.

PZ-25C had a VC ES exceedance and cis-1,2-DCE above its PAL.

This first round of groundwater samples from the WT-25 well nest indicates that:

- Concentrations and types of COCs are similar in the piezometers.
- The appearance of two VOCs (VC and cis-1,2-DCE) in the PZ-25C bedrock well indicates that COCs have entered bedrock at this location.

Side-gradient - Near Former Town of Newton Gravel Pit Entrance

- Well WT-26 and piezometers PZ-26A, PZ-26B, and PZ-26C. The well nest was installed at the same depths as the WT-16/PZ-16 series, the WT-24/PZ-24 series, and the WT-25/PZ-25 series to determine groundwater flow at the different intervals and to determine if the plume continues to flow southeast or directly east.

VOC Discussion: The only VOC detected in this well nest was toluene, at a concentration below its PAL, in PZ-26B. The elevation of this piezometer is just above the bedrock surface.

This first round of groundwater samples from the WT-26 well nest indicates that:

- The singular detect of toluene in the well nest, within piezometer PZ-26B, may or may not indicate an impact to groundwater at this location.

In summary, conditions associated with the Western Source Area groundwater plume continue to indicate groundwater impacts down-gradient as far east as well nest WT-25/PZ-25A/B/C. The chlorinated compounds appear to be infiltrating the bedrock between well nests WT-24 and WT-25.

Groundwater laboratory analytical results are summarized in Table 2. Complete laboratory analytical results are included in Appendix D.

Surface Water Laboratory Analytical Results

A specific Silver Creek surface water sampling event was conducted in September 2014 to assess if there were unknown contaminant sources discharging to Silver Creek within the area of interest, from the Gravel Pit site downstream to the vicinity of CTH CR.

The *2014 Silver Creek Sampling Letter Report*³ provides site background information, sampling methodology, and the surface water monitoring results. Presented below is the monitoring results discussion as presented in the Silver Creek sampling report:

MONITORING RESULTS

On September 30, 2014, AECOM obtained a total of 13 water samples from 12 locations along Silver Creek. Sample locations 1, 2, and 5 were located on the Gravel Pit property. Sample locations 3, 4, and 6 to 12 were downstream of the Gravel Pit property. A duplicate sample was collected at sample location 5. The sample locations are presented on Figure 1. A photo log of the sample locations is also attached.

Sampling was conducted following a period, approximately 8 days, with little or no precipitation (ref. National Weather Service, Green Bay station climate data). The lack of surface water run-off from rain events preceding the sampling event suggests that the water flowing in the stream was “base flow” from groundwater discharge.

Field Screening Results

Field screening measurements for pH, temperature, conductivity, dissolved oxygen, and oxidation reduction potential provide general indications of water quality. Field screening data are summarized on Table 1.

Laboratory Analytical Results

The laboratory analytical data indicates that contaminant compounds were present at the Silver Creek sample locations historically associated with groundwater discharges adjacent to the Gravel Pit site. The contaminant compounds, or contaminants of concern (COCs), detected during this sampling event were benzene, 1,1-dichloroethane (11-DCA), trichloroethene (TCE), cis-1,2-dichloroethene (Cis DCE), and vinyl chloride (VC). No other sample locations had detectable concentrations of COCs.

The concentration of the COCs found in the surface water samples were compared to applicable WAC Chapter NR 105 Table 9 Human Cancer Criteria Standards for a non-public water supply that is a “warm water forage, limited forage and warm water sport fish community”.

³ 2014 Silver Creek Sampling Letter Report, Former Town of Newton Gravel Pit, BRRTS No. 02-36-000268, AECOM Project No: 60135471 (82518), December 2, 2014

Vinyl chloride was the only COC detected at a concentration exceeding its NR Table 9 human cancer criteria standard in water collected at sample locations 3 and 4. These sample locations were located immediately downstream of the Gravel Pit site. Other compounds detected in samples collected immediately downstream of the Gravel Pit site either did not exceed their respective NR 105 Table 9 standards or they were not listed in NR 105 Table 9.

The September 2014 surface water data has been incorporated into the summary tables, Table 3, of this report for reporting consistency.

Summary

An expanded down-gradient groundwater investigation occurred during 2014 in association with the annual site-wide groundwater monitoring event. The investigation included the installation of 15 new groundwater monitoring wells in four locations. The goal of the investigation was to further delineate possible impacts associated with Western Source area. The following is a summary of data obtained during the 2014 groundwater monitoring event.

- Groundwater elevation measurements from water table wells indicate that the groundwater flow direction generally continues to be towards the east-southeast with the exception of the area within the Silver Creek meander, where an apparent groundwater divide creates a shallow groundwater flow system towards the creek.
- Groundwater elevation measurements for mid-level piezometers within the unconsolidated aquifer indicate that groundwater flow direction to be towards the east-southeast.
- Groundwater elevation measurements from bedrock piezometers indicate that groundwater flow direction is towards the east.
- Groundwater velocities range between approximately 30 and 50 ft/yr in the unconsolidated (sand and gravel outwash) aquifer.
- Groundwater velocity is on the order of 7 ft/yr within the upper portions of the bedrock aquifer, not taking into account possible bedrock fracture flow velocities.
- Measureable levels of LNAPL free product consistent with historical levels continue to exist in monitoring wells located within the Western Source Area.
- Groundwater field screening parameters indicate that conditions continue to exist that are favorable for remediation by natural attenuation.
- Groundwater analytical results indicate NR 140 ES and PAL standard exceedances for COCs (petroleum and chlorinated compounds) at concentrations similar to historical levels continue to exist within the groundwater plume associated with the Western Source Area.
- Groundwater analytical results for the expanded down-gradient investigation area (monitoring well nests number WT-16, WT-24, WT-25 and WT-26) indicate that, in general;
 - Concentrations and types of COCs decrease with depth.

- That chlorinated compounds appear to be entering bedrock between well nests WT-24 and WT-25.
- Silver Creek surface water laboratory analytical data indicates that contaminant compounds continue to exist with COCs and concentrations similar to historical levels.
- Residential potable well water sampling activities continue with results provided under separate cover.

If you have any questions regarding these results, please contact Dave Henderson at 414.944.6190 or dave.henderson@aecom.com.

Yours sincerely,

AECOM Technical Services, Inc.



Jordan Junion
Project Scientist



David S. Henderson, P.E.
Senior Project Manager

Cc: Kathleen M. McDaniel, City Attorney, City of Manitowoc
Dan Koski, Director of Public Infrastructure, City of Manitowoc

Enclosures: Tables
Figures
Attachments

Tables:

Table 1, Summary of Groundwater Elevations

Table 2, Summary of Contaminates Detected in Groundwater

Table 3, Summary of Contaminates Detected in Surface Water

**TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS**

SUMMARY OF ELEVATIONS
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN

Well Identification	Ground Surface Elevation	TOC Elevation	Depth to Bottom (ft from TOC)	Depth to Groundwater		Groundwater Elevation	Screened Interval - ft BGS		Screened Interval - ftMSL		Free Product		Date
				(ft. BGS)	(ft. from TOC)		Top	Bottom	Top	Bottom	depth (ft. from TOC)	thickness (ft.)	
WT-01	712.3	714.21											Installed 4/28/1993
			31.43	20.92	22.83	691.38	19.5	29.5	692.8	682.8			7/1/1993
			---	24.26	26.17	688.04	---	---	---	---			7/26/1994
			---	24.51	26.42	687.79	---	---	---	---			9/7/1994
			31.48	24.17	26.08	688.13	19.6	29.6	692.7	682.7			5/13/1999
			31.48	24.74	26.65	687.56	19.6	29.6	692.7	682.7			9/29/1999
			31.47	25.33	27.24	686.97	19.6	29.6	692.7	682.7			12/7/1999
			31.48	24.72	26.63	687.58	19.6	29.6	692.7	682.7			3/31/2000
			31.30	23.48	25.39	688.82	19.4	29.4	692.9	682.9			4/15/2005
		714.48	31.41	23.27	25.45	689.03	19.2	29.2	693.1	683.1			10/20/2006
			31.30	24.32	26.5	687.98	19.1	29.1	693.2	683.2			9/18/2007
			31.30	24.26	26.44	688.04	19.1	29.1	693.2	683.2			1/9/2008
			31.31	24.37	26.55	687.93	19.1	29.1	693.2	683.2			9/25/2012
			---	24.41	26.59	687.89	---	---	---	---			10/21/2013
	712.4		31.30	24.11	26.21	688.27	---	---	---	---			11/13/2014
PZ-01	712.7	714.55											Installed 4/28/1993
			92.84	23.29	25.14	689.41	86.0	91.0	626.7	621.7			7/1/1993
			92.84	25.35	27.2	687.35	86.0	91.0	626.7	621.7			9/6/1994
			92.78	24.88	26.73	687.82	85.9	90.9	626.8	621.8			5/13/1999
			92.78	25.48	27.33	687.22	85.9	90.9	626.8	621.8			9/29/1999
			92.78	25.84	27.69	686.86	85.9	90.9	626.8	621.8			12/7/1999
			92.79	25.30	27.15	687.40	85.9	90.9	626.8	621.8			3/31/2000
			92.81	24.53	26.38	688.17	86.0	91.0	626.7	621.7			4/15/2005
		714.90	92.90	24.31	26.51	688.39	85.7	90.7	627.0	622.0			10/20/2006
			92.78	25.23	27.43	687.47	85.6	90.6	627.1	622.1			9/18/2007
			92.74	25.27	27.47	687.43	85.5	90.5	627.2	622.2			9/25/2012
			---	24.91	27.11	687.79	---	---	---	---			10/21/2013
			92.78	24.61	26.81	688.09	85.6	90.6	627.1	622.1			11/13/2014

SUMMARY OF ELEVATIONS
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN

Well Identification	Ground Surface Elevation	TOC Elevation	Depth to Bottom (ft from TOC)	Depth to Groundwater		Groundwater Elevation	Screened Interval - ft BGS		Screened Interval - ftMSL		Free Product		Date	
				(ft. BGS)	(ft. from TOC)		Top	Bottom	Top	Bottom	depth (ft. from TOC)	thickness (ft.)		
WT-03	716.6	718.53											Installed 4/27/1993	
			36.02	29.03	30.96	687.57	24.0	34.0					7/1/1993	
				30.70	32.63	685.90	24.1	34.1	692.5	682.5			7/26/1994	
			35.97	30.87	32.8	685.73	24.0	34.0	692.6	682.6			9/6/1994	
			35.80	30.52	32.45	686.08	23.9	33.9	692.7	682.7			5/11/1999	
			36.05	31.04	32.97	685.56	24.1	34.1	692.5	682.5			9/29/1999	
			36.05	31.13	33.06	685.47	24.1	34.1	692.5	682.5			12/7/1999	
			36.05	32.10	34.03	684.50	24.1	34.1	692.5	682.5			3/30/2000	
			36.00	29.94	31.87	686.66	24.1	34.1	692.5	682.5			4/15/2005	
		718.90	36.06	29.84	32.14	686.76	23.8	33.8	692.8	682.8			10/20/2006	
			36.01	28.81	31.11	687.79	23.7	33.7	692.9	682.9			9/18/2007	
			36.01	29.95	32.25	686.65	23.7	33.7	692.9	682.9			1/9/2008	
			36.01	30.69	32.99	685.91	23.7	33.7	692.9	682.9			9/25/2012	
			---	30.51	32.81	686.09	---	---	---	---			10/21/2013	
	717.1		36.01	31.70	33.5	685.40	24.2	34.21	692.9	682.9			11/18/2014	
PZ-03	716.6	718.67											Installed 4/27/1993	
			99.73	28.81	30.88	687.79	92.6	97.6					7/1/1993	
			99.70	30.68	32.75	685.92	92.6	97.6	623.9	618.9			9/6/1994	
			99.62	30.18	32.25	686.42	92.6	97.6	624.0	619.0			5/11/1999	
			99.62	30.58	32.65	686.02	92.6	97.6	624.1	619.1			9/29/1999	
			99.63	31.01	33.08	685.59	92.6	97.6	624.1	619.1			12/7/1999	
			99.64	30.43	32.5	686.17	92.6	97.6	624.0	619.0			3/30/2000	
			99.65	29.74	31.81	686.86	92.6	97.6	624.0	619.0			4/15/2005	
		718.98	99.70	29.64	32.02	686.96	92.3	97.3	624.3	619.3			10/20/2006	
			99.65	30.51	32.89	686.09	92.3	97.3	624.3	619.3			9/18/2007	
			99.63	30.50	32.88	686.10	92.3	97.3	624.4	619.4			9/25/2012	
			---	30.17	32.55	686.43	---	---	---	---			10/21/2013	
		717.1		99.65	30.40	32.3	686.68	92.8	97.8	624.3	619.3			11/18/2014

TABLE 1
 SUMMARY OF ELEVATIONS
 FORMER GRAVEL PIT
 TOWN OF NEWTON, WISCONSIN

Well Identification	Ground Surface Elevation	TOC Elevation	Depth to Bottom (ft from TOC)	Depth to Groundwater		Groundwater Elevation	Screened Interval - ft BGS		Screened Interval - ftMSL		Free Product		Date
				(ft. BGS)	(ft. from TOC)		Top	Bottom	Top	Bottom	depth (ft. from TOC)	thickness (ft.)	
WT-05	685.0	687.68					8.5	18.5					Installed 8/17/1994
			20.58	-0.32	2.36	685.32	7.9	17.9	677.1	667.1			9/7/1994
			20.45	-0.75	1.93	685.75	7.8	17.8	677.2	667.2			5/19/1999
			20.46	-0.12	2.56	685.12	7.8	17.8	677.2	667.2			9/30/1999
			20.46	0.30	2.98	684.70	7.8	17.8	677.2	667.2			12/8/1999
			20.46	-0.29	2.39	685.29	7.8	17.8	677.2	667.2			3/30/2000
			20.45	-0.60	2.08	685.60	7.8	17.8	677.2	667.2			4/18/2005
		687.98	20.51	-0.75	2.23	685.75	7.5	17.5	677.5	667.5			10/18/2006
			20.93	0.21	3.19	684.79	7.9	18.0	677.1	667.1			9/21/2007
			20.93	-1.01	1.97	686.01	7.9	18.0	677.1	667.1			1/9/2008
			20.94	0.22	3.2	684.78	8.0	18.0	677.0	667.0			9/25/2012
					685.17								10/21/2013
	685.4		20.93	-0.02	2.58	685.40	8.3	18.3	677.1	667.1			11/17/2014
PZ-05A	685.0	687.70					32.0	37.0					Installed 8/17/1994
			40.37	0.72	3.42	684.28	32.7	37.7	652.3	647.3			9/7/1994
			40.39	-0.07	2.63	685.07	32.7	37.7	652.3	647.3			5/19/1999
			40.39	0.69	3.39	684.31	32.7	37.7	652.3	647.3			9/30/1999
			40.38	0.96	3.66	684.04	32.7	37.7	652.3	647.3			12/8/1999
			40.38	0.51	3.21	684.49	32.7	37.7	652.3	647.3			3/30/2000
			40.28	0.02	2.72	684.98	32.6	37.6	652.4	647.4			4/18/2005
		687.82	40.31	0.09	2.91	684.91	32.5	37.5	652.5	647.5			10/18/2006
			40.40	0.94	3.76	684.06	32.6	37.6	652.4	647.4			9/21/2007
			40.42	0.90	3.72	684.10	32.6	37.6	652.4	647.4			9/25/2012
						684.42							
	685.2		40.40	0.44	3.04	684.78	32.8	37.8	652.4	647.4			11/17/2014
PZ-05B	685.2	687.81					53.4	58.4					Installed 8/16/1994
			60.95	0.85	3.46	684.35	53.3	58.3	631.9	626.9			9/7/1994
			60.91	0.07	2.68	685.13	53.3	58.3	631.9	626.9			5/19/1999
			60.91	0.64	3.25	684.56	53.3	58.3	631.9	626.9			9/30/1999
			60.90	1.01	3.62	684.19	53.3	58.3	631.9	626.9			12/8/1999
			60.91	0.53	3.14	684.67	53.3	58.3	631.9	626.9			3/30/2000
			60.79	0.17	2.78	685.03	53.2	58.2	632.0	627.0			4/18/2005
		687.97	60.83	0.23	3	684.97	53.1	58.1	632.1	627.1			10/18/2006
			60.91	1.05	3.82	684.15	53.1	58.1	632.1	627.1			9/21/2007
			60.92	1.03	3.8	684.17	53.2	58.2	632.1	627.1			9/25/2012
						685.36							
	685.4		60.91	0.00	2.6	685.37	53.3	58.3	632.1	627.1			11/17/2014

TABLE 1
 SUMMARY OF ELEVATIONS
 FORMER GRAVEL PIT
 TOWN OF NEWTON, WISCONSIN

Well Identification	Ground Surface Elevation	TOC Elevation	Depth to Bottom (ft from TOC)	Depth to Groundwater		Groundwater Elevation	Screened Interval - ft BGS		Screened Interval - ftMSL		Free Product		Date
				(ft. BGS)	(ft. from TOC)		Top	Bottom	Top	Bottom	depth (ft. from TOC)	thickness (ft.)	
WT-20	685.0	687.21											Installed 12-7-07
			14.42	0.89	3.1	684.11	2.0	12.0					1/9/2008
			14.33	2.54	4.75	682.46	2.2	12.2	682.8	672.8			9/25/2012
			---	2.00	4.21	683.00	2.1	12.1	682.9	672.9			10/21/2013
			14.42	1.88	4.09	683.12	---	---	---	---			11/12/2014
WT-21	686.3	688.38											Installed 12-7-07
			14.30	2.23	4.31	684.07	2.0	12.0					1/9/2008
			14.22	4.09	6.17	682.21	2.2	12.2	684.1	674.1			9/25/2012
			---	3.41	5.49	682.89	2.1	12.1	684.2	674.2			10/21/2013
			14.30	3.22	5.3	683.08	---	---	---	---			11/12/2014
WT-22	685.9	687.94											Installed 12-7-07
			14.09	2.05	4.09	683.85	2.0	12.0					1/9/2008
			14.04	3.89	5.93	682.01	2.0	12.0	683.9	673.9			9/25/2012
			---	3.38	5.42	682.52	---	---	---	---			10/21/2013
			14.09	3.11	5.15	682.79	---	---	---	---			11/12/2014
WT-23	686.6	688.26											Installed 12-7-07
			14.23	2.48	4.14	684.12	2.0	12.0					1/9/2008
			14.18	3.93	5.59	682.67	2.6	12.6	684.0	674.0			9/25/2012
			---	3.48	5.14	683.12	2.5	12.5	684.1	674.1			10/21/2013
			14.23	3.15	4.81	683.45	---	---	---	---			11/12/2014
WT-24	686.1	688.53											Installed 10-29-14
			16.59	3.41	5.89	682.64	4.11	14.11	681.94	671.94			11/13/2014
PZ-24A	686.53	688.53											Installed 10-29-14
			56.70	4.85	6.85	681.68	49.7	54.7	636.8	631.8			11/14/2014
PZ-24B	685.94	688.60											Installed 10-28-14
			87.40	4.06	6.72	681.88	79.7	84.7	606.2	601.2			11/14/2014
PZ-24C	685.99	688.52											Installed 10-28-14
			123.60	4.46	6.99	681.53	116.1	121.1	569.9	564.9			11/14/2014
WT-25	686.3	688.86											Installed 10-31-14
			21.99	5.60	8.2	680.66	9.39	19.39	676.87	666.87			11/14/2014
PZ-25A	686.2	688.74											Installed 10-30-14
			67.50	7.65	10.19	678.55	60.0	65.0	626.2	621.2			11/14/2014
PZ-25B	686.39	688.68											Installed 10-30-14
			97.32	8.71	11	677.68	90.0	95.0	596.4	591.4			11/14/2014
PZ-25C	686	688.66											Installed 10-29-14
			117.77	14.56	17.22	671.44	110.1	115.1	575.9	570.9			11/14/2014
WT-26	704.5	706.61											Installed 11-04-14
			36.21	22.00	24.14	682.47	24.07	34.07	680.40	670.40			11/13/2014
PZ-26A	704.49	707.09											Installed 11-04-14
			77.90	22.51	25.11	681.98	70.3	75.3	634.2	629.2			11/13/2014
PZ-26B	704.73	707.20											Installed 11-03-14
			108.11	22.83	25.3	681.90	100.6	105.6	604.1	599.1			11/13/2014
PZ-26C	704.81	706.60											Installed 11-01-14
			147.10	33.03	34.82	671.78	140.3	145.3	564.5	559.5			11/13/2014

TABLE 1

SUMMARY OF ELEVATIONS
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN

Well Identification	Ground Surface Elevation	TOC Elevation	Depth to Bottom (ft from TOC)	Depth to Groundwater		Groundwater Elevation	Screened Interval - ft BGS		Screened Interval - ftMSL		Free Product		Date
				(ft. BGS)	(ft. from TOC)		Top	Bottom	Top	Bottom	depth (ft. from TOC)	thickness (ft.)	
WP-01	691.1	693.68											Installed 7/7/1994
			6.94	1.72	4.3	689.38	0.5	3.5	689.7	686.7			7/12/1994
			7.02	1.81	4.39	689.29	1.4	4.4	689.7	686.7			5/11/1999
			7.02	1.98	4.56	689.12	1.4	4.4	689.7	686.7			9/30/1999
			7.03	3.04	5.62	688.06	1.5	4.5	689.7	686.7			12/8/1999
			7.04	2.47	5.05	688.63	1.5	4.5	689.6	686.6			3/31/2000
			6.97	1.37	3.95	689.73	1.4	4.4	689.7	686.7			4/18/2005
DAMAGED - ABANDONED													10/1/2006
													not sampled since 4-18-05
WP-02	698.3	700.31					8.5	11.5					Installed 7/6/1994
			13.65	9.69	11.7	688.61	8.6	11.6	689.7	686.7			7/11/1994
			13.75	9.32	11.33	688.98	8.7	11.7	689.6	686.6			5/10/1999
			13.76	10.06	12.07	688.24	8.8	11.8	689.6	686.6			9/23/1999
			13.77	10.07	12.08	688.23	8.8	11.8	689.5	686.5			12/6/1999
			13.76	9.38	11.39	688.92	8.8	11.8	689.6	686.6			3/29/2000
DAMAGED - ABANDONED													4/14/2005
													not sampled since 3-29-00
WP-04	687.1	689.61					1.5	4.5					Installed 7/6/1994
			6.72	2.38	4.89	684.72	1.2	4.2	685.9	682.9			7/11/1994
			6.82	2.04	4.55	685.06	1.3	4.3	685.8	682.8			5/10/1999
			6.95	2.74	5.25	684.36	1.4	4.4	685.7	682.7			9/23/1999
			6.95	2.68	5.19	684.42	1.4	4.4	685.7	682.7			12/6/1999
			6.96	2.16	4.67	684.94	1.5	4.5	685.7	682.7			3/29/2000
			6.88	1.67	4.18	685.43	1.4	4.4	685.7	682.7			4/14/2005
		689.75	6.93	1.73	4.38	685.37	1.4	4.4	685.8	682.8			10/19/2006
			6.88	2.55	5.2	684.55	1.4	4.4	685.9	682.9			9/19/2007
			6.88	1.11	3.76	685.99	1.4	4.4	685.9	682.9			1/9/2008
			6.88	2.50	5.15	684.60	1.4	4.4	685.9	682.9			9/25/2012
			---	2.18	4.83	684.92	---	---	---	---			10/21/2013
	687.1		6.88	1.95	4.65	685.10	1.3	4.3	685.9	682.9			11/13/2014
WP-05	694.7	695.68					9.5	12.5					Installed 7/6/1994
			13.51	9.52	10.5	685.18	9.5	12.5	685.2	682.2			7/12/1994
			13.66	8.98	9.96	685.72	9.7	12.7	685.0	682.0			5/10/1999
			13.63	9.54	10.52	685.16	9.7	12.7	685.1	682.1			10/5/1999
			13.66	9.80	10.78	684.90	9.7	12.7	685.0	682.0			12/8/1999
			13.67	9.13	10.11	685.57	9.7	12.7	685.0	682.0			3/31/2000
			13.68	8.48	9.46	686.22	9.7	12.7	685.0	682.0			4/14/2005
DAMAGED - ABANDONED													10/1/2006
													not sampled since 4-14-05
													ABANDONED 9-6-07

SUMMARY OF ELEVATIONS
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN

Well Identification	Ground Surface Elevation	TOC Elevation	Depth to Bottom (ft from TOC)	Depth to Groundwater		Groundwater Elevation	Screened Interval - ft BGS		Screened Interval - ftMSL		Free Product		Date
				(ft. BGS)	(ft. from TOC)		Top	Bottom	Top	Bottom	depth (ft. from TOC)	thickness (ft.)	
WP-06	698.1	700.19											Installed 7/6/1994
			18.50	14.32	16.41	683.78	13.8	16.8					7/11/1994
			18.56	13.99	16.08	684.11	13.4	16.4	684.7	681.7			5/10/1999
			18.56	14.55	16.64	683.55	13.5	16.5	684.6	681.6			9/23/1999
			18.57	14.44	16.53	683.66	13.5	16.5	684.6	681.6			12/6/1999
			18.56	13.93	16.02	684.17	13.5	16.5	684.6	681.6			3/29/2000
			18.60	13.67	15.76	684.43	13.5	16.5	684.6	681.6			4/14/2005
		700.11	18.64	13.90	15.91	684.20	13.6	16.6	684.5	681.5			10/19/2006
			18.60	14.44	16.45	683.66	13.6	16.6	684.5	681.5			9/19/2007
			18.60	13.25	15.26	684.85	13.6	16.6	684.5	681.5			1/9/2008
			18.59	14.43	16.44	683.67	13.6	16.6	684.5	681.5			9/25/2012
			---	14.27	16.28	683.83	---	---	---	---			10/21/2013
	697.9		18.60	13.90	16.1	684.01	13.4	16.4	684.5	681.5			11/17/2014
WP-07	693.8	696.70											Installed 7/5/1994
			13.35	8.40	11.3	685.40	7.0	10.0					7/11/1994
			13.29	8.42	11.32	685.38	7.4	10.4	686.4	683.4			5/10/1999
			13.63	9.18	12.08	684.62	7.7	10.7	686.1	683.1			9/23/1999
			13.63	9.15	12.05	684.65	7.7	10.7	686.1	683.1			12/6/1999
			13.63	8.42	11.32	685.38	7.7	10.7	686.1	683.1			3/29/2000
			13.52	7.92	10.82	685.88	7.6	10.6	686.2	683.2			4/14/2005
		696.74	13.57	8.07	11.01	685.73	7.6	10.6	686.2	683.2			10/19/2006
			12.52	8.98	11.92	684.82	6.6	9.6	687.2	684.2			9/19/2007
			12.52	7.43	10.37	686.37	6.6	9.6	687.2	684.2			1/9/2008
			13.53	8.87	11.81	684.93	7.6	10.6	686.2	683.2			9/25/2012
			---	8.56	11.5	685.24	---	---	---	---			10/21/2013
	693.6		12.52	8.21	11.31	685.43	6.4	9.4	687.2	684.2			11/13/2014
WP-08	706.1	708.38											Installed 7/6/1994
			25.97	21.40	23.68	684.70	20.5	23.5					7/11/1994
			26.03	20.63	22.91	685.47	20.7	23.7	685.4	682.4			5/13/1999
			26.08	21.70	23.98	684.40	20.8	23.8	685.4	682.4			10/5/1999
			26.08	22.14	24.42	683.96	20.8	23.8	685.3	682.3			12/9/1999
			26.08	20.87	23.15	685.23	20.8	23.8	685.3	682.3			3/31/2000
			26.09	20.30	22.58	685.80	20.8	23.8	685.3	682.3			4/14/2005
		708.41	26.13	20.58	22.89	685.52	20.8	23.8	685.3	682.3			10/19/2006
													ABANDONNED 9-6-07

TABLE 1
 SUMMARY OF ELEVATIONS
 FORMER GRAVEL PIT
 TOWN OF NEWTON, WISCONSIN

Well Identification	Ground Surface Elevation	TOC Elevation	Depth to Bottom (ft from TOC)	Depth to Groundwater		Groundwater Elevation	Screened Interval - ft BGS		Screened Interval - ftMSL		Free Product		Date
				(ft. BGS)	(ft. from TOC)		Top	Bottom	Top	Bottom	depth (ft. from TOC)	thickness (ft.)	
SG-1/SW-01	NM												
		689.36			0.81	688.55							7/1/1993
		691.16			2.62	688.54							7/12/1994
		684.47			1.22	683.25							10/18/2006
						684.47							10/29/2013
													ABANDONED
SG-2/SW-02	NM												
		691.51			13	678.51							7/1/1993
		699.14			15.4	683.74							7/12/1994
		685.41			0.98	684.43							10/18/2006
						685.41							10/29/2013
													ABANDONED
SG-3	NM				0.52								7/12/1994
													10/6/1994
		685.79			0.97	684.82							10/18/2006
						685.79							10/29/2013
													ABANDONED
SG-4	NM				0.48								7/12/1994
													10/6/1994
													5/19/1999
						NM							9/30/1999
						0.31							12/8/1999
						0.26							3/30/2003
						0.86							ABANDONED
SG-01	NM	684.47											
					1.22	683.25							10/18/2006
						681.71							10/29/2013
					681.71								11/17/2014
SG-02	NM	685.41											
					0.98	684.43							10/18/2006
						682.28							10/29/2013
SG-03	NM	685.79											
					0.97	684.82							10/18/2006
						682.77							10/29/2013

Notes:
 BGS = Below Ground Surface
 TOC = Top of Casing
 --- or NM = Not Measured

Table 2
SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER

TABLE 2

SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	WT-02				
			5/20/93	5/19/99	10/5/99	12/9/99	4/5/00
Volatile Organic Compounds (VOCs) (µg/L):							
Benzene	5	0.5	<0.30	850	650 Q	570 Q	840
t-Butylbenzene	NS	NS	<0.56	<100	<250	<250	<50
Chloromethane	3	0.3					
2-Chlorotoluene	NS	NS	<0.37	<130	<330	<330	<65
1,2-Dichloroethane	5	0.5	<0.38	<72	<270	<270	<54
1,1-Dichloroethane	850	85	<0.34	190 Q	<310	<310	240
1,1-Dichloroethene	7	0.7	<0.78	130 Q	<230	<230	91 Q
cis-1,2-Dichloroethene	70	7	62	170,000 D	160,000 D	150,000 D	85,000 D
trans-1,2-Dichloroethene	100	20	<0.35	<130	<320	<320	640
Ethylbenzene	700	140	2.9	170 Q	860	450 Q	150 Q
Isopropylbenzene	NS	NS	0.64	<78	<200	<200	<39
Methylene chloride	5	0.5	<0.45	200 Q	<190	<190	<38
Naphthalene	100	10	6.9	140 Q	1,300	860 Q	200
n-Propylbenzene	NS	NS	1.4	<110	340 Q	<270	<54
Tetrachloroethene	5	0.5	1.0	<82	<200	<200	<41
Toluene	1,000	200	7.3	2,100	4,400	2,500	1,700
1,1,1-Trichloroethane	200	40	<0.30	1,100	1,600	1,200	340
Trichloroethene	5	0.5	3.6	250 Q	<250	<250	720
1,2,4-Trimethylbenzene	--	--	12	140 Q	2300	1500	220
1,3,5-Trimethylbenzene	--	--	3.8	<90	730	450 Q	63 Q
Total Trimethylbenzene	480	96	15.8	140	3030	1950	283
Vinyl Chloride	0.2	0.02	<0.32	<100	<85	<85	<17
Xylenes, m + p	--	--	14	580	3,900	2,000	630
Xylene, o	--	--	6.7	320 Q	1,800	1,000	310
Total Xylenes	10,000	1,000	20.7	900	5,700	3,000	940
Styrene	100	10	<0.30	<74	<190	<190	<37
Ethane	NS	NS	NA	<10	<2000	<100	<10
Ethene	NS	NS	NA	<10	<2000	<100	<10
Methane	NS	NS	NA	<10	<2000	38	170
SVOCs Polycyclic Aromatic Hydrocarbons (PAHs) (µg/L):							
1-Methylnaphthalene	NS	NS	NA	9300	1600	6500	50
2-Methylnaphthalene	NS	NS	670	15000	2600	11000	79
Acenaphthene	NS	NS	<83	<2000	<99	<990	<20
Acenaphthylene	NS	NS	180	9900	1500	6100	<18
Anthracene	3000	600	120	1400	<4.5	<44	3.5
Benzo(a)anthracene	NS	NS	<100	750	<4.3	<43	0.98
Benzo(a)pyrene	0.2	0.02	<83	460	<6.0	450	<1.2
Benzo(b)fluoranthene	0.2	0.02	<83	<160	<8.0	<80	<1.6
Benzo(ghi)perylene	NS	NS	<100	<180	29	<90	<1.8
Benzo(k)fluoranthene	NS	NS	<83	<80	<4.0	<40	<0.79
Butyl benzyl phthalate	NS	NS	<100	NA	NA	NA	NA
Bis (2-Ethylhexyl) Phthalate	NS	NS	<150	NA	NA	NA	NA
Chrysene	0.2	0.02	<100	580	<4.5	<44	2.6
Dibenzo(a,h)anthracene	NS	NS	<83	<180	<9.0	<90	<1.8
Fluoranthene	400	80	130	<190	<9.5	<95	<1.9
Fluorene	400	80	<83	4,500	580	2,500	<2.0
Indeno(1,2,3-dc)pyrene	NS	NS	<83	<84	<4.2	<42	<0.83
Naphthalene	100	10	1,200	13,000	3,000	11,000	210
N-Nitroso-Di-N-Propylamin	NS	NS	<100	NA	NA	NA	NA
o-Cresol (2-Methylphenol)	NS	NS	170	NA	NA	NA	NA
p-Cresol (4-Methylphenol)	NS	NS	170	NA	NA	NA	NA
Phenanthrene	NS	NS	380	6800	1000	4900	19
Pyrene	250	50	180	<130	310	<65	6

TABLE 2

SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	WT-02				
			5/20/93	5/19/99	10/5/99	12/9/99	4/5/00
RCRA Metals (mg/L)							
Antimony	0.006	0.0012	NA	0.0040 Q	0.0022	0.0043	0.0059
Arsenic	0.01	0.001	0.011	0.017 Q	(0.0018)	0.019	0.021
Barium	2	0.4	0.09	0.0061	0.1	0.011	0.004
Beryllium	0.004	0.0004	NA	<0.00063	0.00026	<0.000070	<.00007
Cadmium	0.005	0.0005	0.0002	<0.00020	(-0.00068)	0.000070 Q	0.00017 Q
Chromium	0.1	0.01	0.009	B(0.0011)	0.088	0.0059	(0.00017)
Copper	1.3	0.13	NA	0.0035 Q	0.03	0.0055	(-0.0003)
Iron	0.3	0.15	NA	2.7	11	(0.022)	0.51
Lead	0.015	0.0015	0.072	<0.0030	0.19	0.012	0.0012
Manganese	0.05	0.025	NA	0.44	0.39	0.38	0.17
Mercury	0.002	0.0002	0.00031	<0.000042	<0.000042	<0.000042 K	0.000047 Q
Nickel	0.1	0.02	NA	0.0092	0.018	0.0048	0.0042
Selenium	0.05	0.01	<0.002	<0.0024 ED	0.0034 Q	0.0013 Q	(0.00083)
Silver	0.05	0.01	<0.001	<0.00050 N	0.00012 QN,*	(-0.00041)	(0.00047)
Sodium	increase of 10		NA	46	25	31	35
Thallium	0.002	0.0004	NA	<0.0014	(0.00018)	<0.000093	<0.000093
Zinc	5	2.5	NA	0.0087 Q	(0.0023)	(-0.0048)	0.021
Polychlorinated Biphenyls (PCBs) (µg/L):							
Aroclor-1016	NS	NS	NA	<330	<33	<16	<0.33
Aroclor-1221	NS	NS	NA	<330	<33	<16	<0.33
Aroclor-1232	NS	NS	NA	<30	<33	<16	<0.33
Aroclor-1242	NS	NS	NA	<330	<33	<16	<0.33
Aroclor-1248	NS	NS	NA	4,200	720	210	5.9
Aroclor-1254	NS	NS	NA	3,200	620	<16	<0.33
Aroclor-1260	NS	NS	NA	<330	<33	49	<0.33
Total PCBs	0.03	0.003	NA	7400	1340	259	5.9
General Chemistry Parameters (mg/L)							
Alkalinity	increase of 100		NA	940	680	640	800
Ammonia	NS	NS	NA	NA	NA	NA	NA
BOD	increase of 25		NA	NA	NA	NA	NA
COD	increase of 25		NA	NA	NA	NA	NA
Chloride	250	125	NA	270	260	270	20
Cyanide	0.2	0.04	NA	NA	NA	NA	NA
Sulfate	250	125	NA	32 ED	16	42	52
TDS	increase of 200		NA	NA	NA	NA	NA
TSS	NS	NS	NA	NA	NA	NA	NA
Hardness, Total	increase of 100		NA	NA	NA	NA	NA
Bicarbonate Alkalinity	NS	NS	NA	940	680	640	800
Carbonate Alkalinity	NS	NS	NA	<25	<19	<1.9	<38
Conductance, specific (umhos/cm)	increase of 200		NA	NA	NA	1700	1500
Ferrous Iron	NS	NS	NA	220	0.13 Q	0.023	<44 ED
Nitrogen, nitrate	increase of 2		NA	<2.2 ED	<0.090	<0.080	<0.080
Nitrogen, NO3 + NO2	increase of 2		NA	NA	NA	NA	NA
pH, Laboratory (su)	increase of 1		NA	NA	NA	6.9	7.5
TOC as NPOC - Filtered	increase of 1		NA	290	600 A(0.97)	250	240
Field Screening Measurements							
pH		IU	7.7	NA	NA	NA	NA
Conductivity		uS	780	NA	NA	NA	NA
Temperature		°C	9.8	NA	NA	NA	NA
Dissolved Oxygen		ppm	NA	NA	NA	NA	NA
Redox Potential		mV	NA	NA	NA	NA	NA

**SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	WT-02A											
			9-6-94	5/11/99	9/29/99	12/7/99	3/30/00	4/18/05	10/20/06	9/18/07	9/24/12	10/24/13	11/18/14	11/18/14
RCRA Metals (mg/L)														
Antimony	0.006	0.0012	NA	<0.0019	0.0011	0.00028 Q	<0.00020	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	0.006	0.0059 Q	(-0.00047)	0.011	0.0057	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	0.13	0.088	0.078	0.082	0.11	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	<0.00043	<0.000070	<0.000070	<0.000070	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	<0.0030	<0.00017	(0.00013)	<0.000060	<0.000060	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	0.022	0.0031	(0.00020)	(0.00048)	(-0.00008)	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	<0.00094	0.0017	0.0018	(-0.00041)	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	3.1	(0.0097)	2.3	1	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	<0.025	<0.0028	<0.00015	<0.00015	<0.00015	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	0.077	0.062	0.067	0.038	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	<0.0002	<0.000042	<0.000042	<0.000042	<0.000042	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	<0.0022	0.002	0.0025	0.0027	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	<0.001	<0.0023	<0.00064	0.0014 Q	0.0023	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	<0.010	<0.00046	<0.000095	<0.000095	<0.00010	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	11	11	12	18	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	<0.0013	<0.000093	<0.000093	<0.000093	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	0.00039	0.01	0.0073	0.0079	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):														
Aroclor-1016	NS	NS	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.12	NA
Aroclor-1221	NS	NS	<2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.086	NA
Aroclor-1232	NS	NS	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.050	NA
Aroclor-1242	NS	NS	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.055	NA
Aroclor-1248	NS	NS	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10	NA
Aroclor-1254	NS	NS	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.055	NA
Aroclor-1260	NS	NS	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.14	NA
Total PCBs	0.03	0.003	<2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.14	NA
General Chemistry Parameters (mg/L)														
Alkalinity	increase of 100		660	490	60 H(1)	500	580	NA	NA	NA	NA	NA	NA	NA
Ammonia	NS	NS	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BOD	increase of 25		2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COD	increase of 25		40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	250	125	18	19	1.7	22	20	NA	NA	NA	NA	NA	NA	NA
Cyanide	0.2	0.04	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250	125	100	72	19	100	110	NA	NA	NA	NA	NA	NA	NA
TDS	increase of 200		800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TSS	NS	NS	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total	increase of 100		900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate Alkalinity	NS	NS	NA	490	60 H(1)	500	580	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	NS	NS	NA	<2.5	<1.9 H(1)	<1.9	<3.8	NA	NA	NA	NA	NA	NA	NA
Conductance, specific (umhos/cm)	increase of 200		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	NS	NS	NA	<0.043	<0.043	<0.044	<0.044	NA	NA	NA	NA	NA	NA	NA
Nitrogen, nitrate	increase of 2		NA	0.33	0.63	0.38	0.59	NA	NA	NA	NA	NA	NA	NA
Nitrogen, NO3 + NO2	increase of 2		NA	NA	NA	NA	0.91	NA	NA	NA	NA	NA	NA	NA
pH, Laboratory (su)	increase of 1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOC as NPOC - Filtered	increase of 1		NA	6.9	11	0.76 Q	12	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements														
pH		IU	6.98	6.79	7.09	6.92	6.83	684	6.7	6.89	7.17	6.75	6.75	6.88
Conductivity		uS	1446	870	996	1021	1098	1015	1007	983.6	973	1679	1679	1358
Temperature		°C	10	11.1	10.6	9	10.6	11.4	10.4	10.4	10.9	11.29	11.29	10.16
Dissolved Oxygen		ppm	NA	1.84	1.41	1.73	1.7	2.87	2.75	--	1.23	3.15	3.15	2.07
Redox Potential		mV	NA	-66	0.26	-54	-39	-53	-81	-53	-127.8	77.3	77.3	-60.1

**SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	WT-03											
			5/20/93	9-6-94	5/11/99	9/29/99	12/7/99	3/30/00	4/15/05	10/20/06	9/18/07	9/24/12	10/24/13	11/17/14
RCRA Metals (mg/L)														
Antimony	0.006	0.0012	NA	NA	B(-0.0032)	0.0012	0.00092	<0.00020	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	<0.002	<0.0024	(-0.00047)	0.00061 Q	<0.00020	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	0.054	0.032	0.0333	0.035	0.033	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	<0.00043	0.00011 Q	<0.000070	<0.000070	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	<0.0030	<0.00017	(0.00013)	<0.000060	0.000090 Q	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	0.006	0.0027	(0.00020)	(0.00048)	(-0.00008)	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	<0.00094	0.0024	0.0036	(-0.00041)	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	<0.027	(0.0097)	<0.0037	0.013	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	<0.025	<0.0028	0.0026 Q	0.00026 Q	0.00023 Q	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	0.002	0.0073	0.00036	0.0013	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	0.0023	<0.000042	<0.000042	<0.000042	<0.000042	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	0.0027 Q	0.0019	0.0024	0.0018	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	<0.001	<0.0023	0.0015 Q	0.0018 QMS	0.00095 W	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	<0.010	<0.00046	<0.000095	<0.000095	<0.00010	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	4.6	4	4.5	4.5	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	<0.0013	<0.000093	<0.000093	<0.0093	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	0.0059	0.0083	0.0082	0.0093	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyls (PCBs) (µg/L):														
Aroclor-1016	NS	NS	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	NS	NS	NA	<2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	NS	NS	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	NS	NS	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	NS	NS	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	NS	NS	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	NS	NS	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	<2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry Parameters (mg/L)														
Alkalinity	increase of 100		NA	440	410	390 H(1)	410	390	NA	NA	NA	NA	NA	NA
Ammonia	NS	NS	NA	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BOD	increase of 25		NA	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COD	increase of 25		NA	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	250	125	NA	12	14	13	7.9	7	NA	NA	NA	NA	NA	NA
Cyanide	0.2	0.04	NA	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250	125	NA	110	44	43	60	52	NA	NA	NA	NA	NA	NA
TDS	increase of 200		NA	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TSS	NS	NS	NA	930	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total	increase of 100		NA	640	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate Alkalinity	NS	NS	NA	NA	410	390 H(1)	410	390	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	NS	NS	NA	NA	<2.5	<1.9 H(1)	<1.9	<1.9	NA	NA	NA	NA	NA	NA
Conductance, specific (umhos/cm)	increase of 200		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	NS	NS	NA	NA	<0.043	<0.043	<0.044	.051 Q	NA	NA	NA	NA	NA	NA
Nitrogen, nitrate	increase of 2		NA	NA	9.8	17	15	11 H(0.15)	NA	NA	NA	NA	NA	NA
Nitrogen, NO3 + NO2	increase of 2		NA	NA	NA	NA	NA	21	NA	NA	NA	NA	NA	NA
pH, Laboratory (su)	increase of 1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOC as NPOC - Filtered	increase of 1		NA	NA	3.7	6.5	4.9	(0.67)	NA	NA	NA	NA	NA	NA
Field Screening Measurements														
pH		IU	7.5	7.93	6.97	7.09	7.06	6.8	6.84	7.03	6.88	7.09	6.78	7.08
Conductivity		uS	976	1057	846	894	894	836	882	895.3	767	781	818	733
Temperature		°C	9.8	13.3	12.1	10.6	10.1	11	10.6	9.5	10.2	10.8	11.4	7.8
Dissolved Oxygen		ppm	NA	NA	6.11	8.55	8.56	8.01	5.13	8.2	--	4.01	7.23	7.67
Redox Potential		mV	NA	NA	53	140	139	81	116	97	103	-28.9	99.6	66.5

TABLE 2

SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN

Table with columns: Analyte, ES(1), PAL(2), and PZ-05A (9/7/94, 5/19/99, 9/30/99, 12/8/99, 3/30/00, 4/18/05, 10/18/06, 9/21/07, 9/26/12, 10/24/13, 11/17/14). Rows include Volatile Organic Compounds (VOCs) such as Benzene, Chloromethane, and Ethylbenzene, and SVOCs Polycyclic Aromatic Hydrocarbons (PAHs) such as 1-Methylnaphthalene and Anthracene.

**SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	WT-18				WT-19				WT-20			
			9/19/07	9/25/12	10/24/13	11/18/14	9/19/07	9/24/12	10/24/13	11/19/14	1/9/08	9/25/12	10/23/13	11/12/14
RCRA Metals (mg/L)														
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyls (PCBs) (µg/L):														
Aroclor-1016	NS	NS	NA	NA	<0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	NS	NS	NA	NA	<0.086	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	NS	NS	NA	NA	<0.050	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	NS	NS	NA	NA	<0.055	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	NS	NS	NA	NA	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	NS	NS	NA	NA	<0.055	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	NS	NS	NA	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry Parameters (mg/L)														
Alkalinity	increase of 100		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BOD	increase of 25		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COD	increase of 25		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	0.2	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TDS	increase of 200		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TSS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total	increase of 100		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate Alkalinity	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductance, specific (umhos/cm)	increase of 200		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, nitrate	increase of 2		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, NO3 + NO2	increase of 2		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH, Laboratory (su)	increase of 1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOC as NPOC - Filtered	increase of 1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements														
pH		IU	6.99	6.87	7.31	10.37	7.08	6.98	6.8	6.99	---	7.07	6.88	7.22
Conductivity		uS	947.8	1134	1200	1271	891.3	888	790	755	---	612	440	565
Temperature		°C	10.8	11.59	11.3	10	14.3	13.01	11.01	9.68	---	17.11	13.27	9.95
Dissolved Oxygen		ppm	--	0.34	0.55	0.18	--	0.79	1.02	0.52	---	0.22	1.42	1.23
Redox Potential		mV	-80	-132	-9	-123.2	71	-51.2	85.8	-65.1	---	-42.9	88.1	57.8

**SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	WT-21				WT-22				WT-23			
			1/9/08	9/25/12	10/23/13	11/12/14	1/9/08	9/27/12	10/23/13	11/12/14	1/9/08	9/27/12	10/23/13	11/12/14
RCRA Metals (mg/L)														
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyls (PCBs) (µg/L):														
Aroclor-1016	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry Parameters (mg/L)														
Alkalinity	increase of 100		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BOD	increase of 25		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COD	increase of 25		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	0.2	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TDS	increase of 200		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TSS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total	increase of 100		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate Alkalinity	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductance, specific (umhos/cm)	increase of 200		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, nitrate	increase of 2		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, NO3 + NO2	increase of 2		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH, Laboratory (su)	increase of 1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOC as NPOC - Filtered	increase of 1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements														
pH		IU	---	8.06	7.4	7.86	---	7.23	7.13	7.54	---	6.91	7.46	7.32
Conductivity		uS	---	244	201	245	---	362	687	415	---	718	411	642
Temperature		°C	---	18.18	13.97	10.59	---	16.16	13.07	11.02	---	15.82	13.83	10.32
Dissolved Oxygen		ppm	---	4.89	5.54	5.68	---	2.42	2.16	6.34	---	0.2	3.68	1.6
Redox Potential		mV	---	-58.5	89.3	104.9	---	-27.5	85.2	77.8	---	-56.2	80.2	111.3

SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN

Table with 16 columns: Analyte, ES(1), PAL(2), and sampling locations (WT-24, PZ-24A, PZ-24B, PZ-24C, WT-25, PZ-25A, PZ-25B, PZ-25C, WT-26, PZ-26A, PZ-26B, PZ-26C) with corresponding dates (11/14/14) and values. Rows include Volatile Organic Compounds (VOCs) like Benzene, Chloromethane, etc., and SVOCs/Polycyclic Aromatic Hydrocarbons (PAHs) like 1-Methylnaphthalene, Anthracene, etc.

**SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	WT-24	PZ-24A		PZ-24B	PZ-24C	WT-25		PZ-25A	PZ-25B	PZ-25C	WT-26	PZ-26A	PZ-26B	PZ-26C
			11/14/14	11/14/14	11/14/14	11/14/14	11/14/14	11/14/14	11/14/14	11/14/14	11/14/14	11/14/14	11/14/14	11/13/14	11/13/14	11/13/14
RCRA Metals (mg/L)																
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyls (PCBs) (µg/L):																
Aroclor-1016	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry Parameters (mg/L)																
Alkalinity	increase of 100		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BOD	increase of 25		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COD	increase of 25		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	0.2	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TDS	increase of 200		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TSS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total	increase of 100		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate Alkalinity	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductance, specific (umhos/cm)	increase of 200		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, nitrate	increase of 2		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, NO3 + NO2	increase of 2		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH, Laboratory (su)	increase of 1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOC as NPOC - Filtered	increase of 1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements																
pH		IU	7.01	7.45	7.45	7.58	7.61	7.53	7.53	7.80	8.19	7.53	7.32	7.55	7.72	7.72
Conductivity		uS	0.869	0.662	0.662	0.639	0.523	0.734	0.734	0.613	0.406	0.722	0.885	0.588	1.142	0.531
Temperature		°C	8.28	9.00	9.00	8.53	8.71	9.36	9.36	8.66	8.60	8.77	6.95	9.46	8.67	9.12
Dissolved Oxygen		ppm	6.67	0.15	0.15	0.33	0.27	0.18	0.18	0.13	0.15	0.28	4.21	0.16	0.27	0.25
Redox Potential		mV	161.8	-318.7	-318.7	-492.6	-430.2	-125.1	-125.1	-445.7	-411.5	-485.7	-73.3	-372.8	-286.6	-132.6

TABLE 2

SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	WP-01 - DAMAGED - ABANDONED					
			7/11/94	5/11/99	9/30/99	12/8/99	3/31/00	4/18/05
Volatile Organic Compounds (VOCs) (µg/L):								
Benzene	5	0.5	<1.0	<0.44	<0.44	<0.44	<0.44	<0.41
t-Butylbenzene	NS	NS	NA	<0.50	<0.50	<0.50	<0.50	<0.97
Chloromethane	3	0.3						
2-Chlorotoluene	NS	NS	<1.0	<0.65	<0.65	<0.65	<0.65	<0.85
1,2-Dichloroethane	5	0.5	<1.0	<0.54	<0.54	<0.54	<0.54	<0.36
1,1-Dichloroethane	850	85	<1.0	<0.61	<0.61	<0.61	<0.61	<0.75
1,1-Dichloroethene	7	0.7	<1.0	<0.47	<0.47	<0.47	<0.47	<0.57
cis-1,2-Dichloroethene	70	7	<1.0	<0.46	<0.46	<0.46	<0.46	<0.83
trans-1,2-Dichloroethene	100	20	NA	<0.64	<0.64	<0.64	<0.64	<0.89
Ethylbenzene	700	140	<1.0	<0.50	<0.50	<0.50	<0.50	<0.54
Isopropylbenzene	NS	NS	<1.0	<0.39	<0.39	<0.39	<0.39	<0.59
Methylene chloride	5	0.5	6.2 B	<0.38	<0.38	<0.38	<0.38	<0.43
Naphthalene	100	10	<1.0	<0.59	<0.59	<0.59	<0.59	<0.74
n-Propylbenzene	NS	NS	<1.0	<0.54	<0.54	<0.54	<0.54	<0.81
Tetrachloroethene	5	0.5	<1.0	<0.41	<0.41	<0.41	<0.41	<0.45
Toluene	1,000	200	<1.0	<0.40	<0.40	<0.40	<0.40	<0.67
1,1,1-Trichloroethane	200	40	<1.0	<0.53	<0.53	<0.53	<0.53	<0.90
Trichloroethene	5	0.5	<1.0	<0.49	<0.49	<0.49	<0.49	<0.48
1,2,4-Trimethylbenzene	--	--	<1.0	<0.47	<0.47	<0.47	<0.47	<0.97
1,3,5-Trimethylbenzene	--	--	<1.0	<0.45	<0.45	<0.45	<0.45	<0.83
Total Trimethylbenzene	480	96	<1.0	<0.47	<0.47	<0.47	<0.47	<0.97
Vinyl Chloride	0.2	0.02	<1.0	<0.17	<0.17	<0.17	<0.17	<0.18
Xylenes, m + p	--	--	<2.0	<0.77	<0.77	<0.77	<0.77	<1.8
Xylene, o	--	--	<1.0	<0.54	<0.54	<0.54	<0.54	<0.83
Total Xylenes	10,000	1,000	<2.0	<0.77	<0.77	<0.77	<0.77	<1.8
Styrene	100	10	<1.0	<0.37	<0.37	<0.37	<0.37	<0.86
Ethane	NS	NS	NA	<2.3	<10	<10	<10	NA
Ethene	NS	NS	NA	<1.8	<10	<10	<10	NA
Methane	NS	NS	NA	<0.9	46	<1.0	<10	NA
SVOCs Polycyclic Aromatic Hydrocarbons (PAHs) (µg/L):								
1-Methylnaphthalene	NS	NS	NA	<0.044	<0.044	<0.044	<0.044	NA
2-Methylnaphthalene	NS	NS	NA	<0.049	<0.049	<0.049	<0.049	NA
Acenaphthene	NS	NS	NA	<0.20	<0.20	<0.20	<0.20	NA
Acenaphthylene	NS	NS	NA	<0.18	<0.18	<0.18	<0.18	NA
Anthracene	3000	600	NA	<0.0090	<0.0089	<0.0089	<0.0089	NA
Benzo(a)anthracene	NS	NS	NA	<0.0088	<0.0087	<0.0087	<0.0087	NA
Benzo(a)pyrene	0.2	0.02	NA	<0.012	<0.012	<0.012	<0.012	NA
Benzo (b)fluoranthene	0.2	0.02	NA	<0.016	<0.016	<0.016	<0.016	NA
Benzo(ghi)perylene	NS	NS	NA	<0.018	<0.018	<0.018	<0.018	NA
Benzo(k)fluoranthene	NS	NS	NA	<0.0080	<0.0079	<0.0079	<0.0079	NA
Butyl benzyl phthalate	NS	NS	NA	NA	NA	NA	NA	NA
Bis (2-Ethylhexyl) Phthalate	NS	NS	NA	NA	NA	NA	NA	NA
Chrysene	0.2	0.02	NA	<0.0090	<0.0089	<0.0089	<0.0089	NA
Dibenzo(a,h)anthracene	NS	NS	NA	<0.018	<0.018	<0.018	<0.018	NA
Fluoranthene	400	80	NA	<0.019	<0.019	<0.019	<0.019	NA
Fluorene	400	80	NA	<0.02	<0.02	<0.02	<0.02	NA
Indeno(1,2,3-dc)pyrene	NS	NS	NA	<0.0084	<0.0083	<0.0083	<0.0083	NA
Naphthalene	100	10	NA	<0.12	<0.12	<0.12	<0.12	NA
N-Nitroso-Di-N-Propylamin	NS	NS	NA	NA	NA	NA	NA	NA
o-Cresol (2-Methylphenol)	NS	NS	NA	NA	NA	NA	NA	NA
p-Cresol (4-Methylphenol)	NS	NS	NA	NA	NA	NA	NA	NA
Phenanthrene	NS	NS	NA	<0.011	<0.011	<0.011	<0.011	NA
Pyrene	250	50	NA	<0.013	0.15	<0.013	<0.013	NA

**SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	WP-01 - DAMAGED - ABANDONED					
			7/11/94	5/11/99	9/30/99	12/8/99	3/31/00	4/18/05
RCRA Metals (mg/L)								
Antimony	0.006	0.0012	NA	<0.0019 B((-0.0032)	0.0014	0.00081	<0.00020	NA
Arsenic	0.01	0.001	NA	<0.0024	0.0018 A(-0.00047)	0.00082 A(0.00038)	0.00050 QA(0.00034)	NA
Barium	2	0.4	NA	0.032	0.031	0.04	0.059	NA
Beryllium	0.004	0.0004	NA	<0.00043	<0.000070	<0.000070	<0.000070	NA
Cadmium	0.005	0.0005	NA	<0.00017	<0.000076 A(0.00013)	<0.000060	0.00010 Q	NA
Chromium	0.1	0.01	NA	<0.00053	0.00046 A(0.00020)	0.00080 A(0.00012)	0.00014 QA(0.00017)	NA
Copper	1.3	0.13	NA	<0.00094	0.00035 Q	<0.00025	0.00086 A(-0.0003)	NA
Iron	0.3	0.15	NA	<0.027	0.012 A(0.0097)	0.110 A(0.022)	0.1 A(-0.024)	NA
Lead	0.015	0.0015	NA	<0.0028	<0.00015	<0.00015	0.00063	NA
Manganese	0.05	0.025	NA	0.0025	0.11	0.057	0.034	NA
Mercury	0.002	0.0002	NA	<0.000042	<0.000042	<0.000042	<0.000042	NA
Nickel	0.1	0.02	NA	<0.0022	0.0015	0.0019	0.0028	NA
Selenium	0.05	0.01	NA	<0.0023	<0.00064	0.00082 Q	<0.00064 A(0.00083)	NA
Sliver	0.05	0.01	NA	<0.00046	0.00021 Q	<0.000095 A(-0.00041)	<0.00010 A(0.00047)	NA
Sodium	increase of 10		NA	1.4	1.5	1.6	1.6	NA
Thallium	0.002	0.0004	NA	<0.0013	<0.000093	<0.000093	<0.000093	NA
Zinc	5	2.5	NA	0.06	0.029	0.015 A(-0.0048)	0.15	NA
Poychlorinated Biphenyls (PCBs) (µg/L):								
Aroclor-1016	NS	NS	NA	NA	NA	NA	NA	NA
Aroclor-1221	NS	NS	NA	NA	NA	NA	NA	NA
Aroclor-1232	NS	NS	NA	NA	NA	NA	NA	NA
Aroclor-1242	NS	NS	NA	NA	NA	NA	NA	NA
Aroclor-1248	NS	NS	NA	NA	NA	NA	NA	NA
Aroclor-1254	NS	NS	NA	NA	NA	NA	NA	NA
Aroclor-1260	NS	NS	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA
General Chemistry Parameters (mg/L)								
Alkalinity	increase of 100		NA	180	200	220	330	NA
Ammonia	NS	NS	NA	NA	NA	NA	NA	NA
BOD	increase of 25		NA	NA	NA	NA	NA	NA
COD	increase of 25		NA	NA	NA	NA	NA	NA
Chloride	250	125	NA	1.2	0.83	2.4	1	NA
Cyanide	0.2	0.04	NA	NA	NA	NA	NA	NA
Sulfate	250	125	NA	7.7	0.9	11	7.6	NA
TDS	increase of 200		NA	NA	NA	NA	NA	NA
TSS	NS	NS	NA	NA	NA	NA	NA	NA
Hardness, Total	increase of 100		NA	NA	NA	NA	NA	NA
Bicarbonate Alkalinity	NS	NS	NA	180	200	220	330	NA
Carbonate Alkalinity	NS	NS	NA	<2.5	<1.9	<1.9	<3.8	NA
Conductance, specific (umhos/c	increase of 200		NA	NA	NA	NA	NA	NA
Ferrous Iron	NS	NS	NA	<0.043	<0.043	<0.044	<0.044	NA
Nitrogen, nitrate	increase of 2		NA	<0.090	<0.090	<0.080	<0.080	NA
Nitrogen, NO3 + NO2	increase of 2		NA	NA	NA	NA	<0.037	NA
pH, Laboratory (su)	increase of 1		NA	NA	NA	NA	NA	NA
TOC as NPOC - Filtered	increase of 1		NA	1	1.3 Q	2.1	1.6	NA
Field Screening Measurements								
pH		IU	7.96	7.5	7.36	7.46	7.27	7.11
Conductivity		uS	411	333	331	381	497	784
Temperature		°C	20	11.1	13.8	8.8	8.4	7.6
Dissolved Oxygen		ppm	NA	5.78	2.14	2.39	2.33	2.66
Redox Potential		mV	NA	26	41	43	6	-99

**SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	WP-02 - DAMAGED - ABANDONED				
			7/11/94	5/10/99	9/23/99	12/6/99	3/29/00
Volatile Organic Compounds (VOCs) (µg/L):							
Benzene	5	0.5	<1.0	<0.44	<0.44	<0.44	<0.44
t-Butylbenzene	NS	NS	NA	<0.50	<0.50	<0.50	<0.50
Chloromethane	3	0.3					
2-Chlorotoluene	NS	NS	<1.0	<0.65	<0.65	<0.65	<0.65
1,2-Dichloroethane	5	0.5	<1.0	<0.54	<0.54	<0.54	<0.54
1,1-Dichloroethane	850	85	<1.0	<0.61	<0.61	<0.61	<0.61
1,1-Dichloroethene	7	0.7	<1.0	<0.47	<0.47	<0.47	<0.47
cis-1,2-Dichloroethene	70	7	<1.0	<0.46	<0.46	<0.46	<0.46
trans-1,2-Dichloroethene	100	20	NA	<0.64	<0.64	<0.64	<0.64
Ethylbenzene	700	140	<1.0	<0.50	<0.50	<0.50	<0.50
Isopropylbenzene	NS	NS	<1.0	<0.39	<0.39	<0.39	<0.39
Methylene chloride	5	0.5	6.7 B	<0.38	<0.38	<0.38	<0.38
Naphthalene	100	10	<1.0	<0.59	<0.59	<0.59	<0.59
n-Propylbenzene	NS	NS	<1.0	<0.54	<0.54	<0.54	<0.54
Tetrachloroethene	5	0.5	<1.0	<0.41	<0.41	<0.41	<0.41
Toluene	1,000	200	<1.0	<0.40	<0.40	<0.40	<0.40
1,1,1-Trichloroethane	200	40	<1.0	<0.53	<0.53	<0.53	<0.53
Trichloroethene	5	0.5	<1.0	<0.49	<0.49	<0.49	<0.49
1,2,4-Trimethylbenzene	--	--	<1.0	<0.47	<0.47	<0.47	<0.47
1,3,5-Trimethylbenzene	--	--	<1.0	<0.45	<0.45	<0.45	<0.45
Total Trimethylbenzene	480	96	<1.0	<0.47	<0.47	<0.47	<0.47
Vinyl Chloride	0.2	0.02	<1.0	<0.52	<0.17	<0.17	<0.17
Xylenes, m + p	--	--	<2.0	<0.77	<0.77	<0.77	<0.77
Xylene, o	--	--	<1.0	<0.54	<0.54	<0.54	<0.54
Total Xylenes	10,000	1,000	<2.0	<0.77	<0.77	<0.77	<0.77
Styrene	100	10	<1.0	<0.37	<0.37	<0.37	<0.37
Ethane	NS	NS	NA	<2.3	<10	<10	<10
Ethene	NS	NS	NA	<1.4	<10	<10	<10
Methane	NS	NS	NA	300	<10	<10	<10
SVOCs Polycyclic Aromatic Hydrocarbons (PAHs) (µg/L):							
1-Methylnaphthalene	NS	NS	NA	<0.044	<0.044	<0.044	<0.044
2-Methylnaphthalene	NS	NS	NA	<0.049	<0.049	<0.049	<0.049
Acenaphthene	NS	NS	NA	<0.20	<0.20	<0.20	<0.20
Acenaphthylene	NS	NS	NA	<0.18	<0.18	<0.18	<0.18
Anthracene	3000	600	NA	<0.0089	<0.0089	<0.0089	<0.0089
Benzo(a)anthracene	NS	NS	NA	<0.0087	<0.0087	<0.0087	<0.0087
Benzo(a)pyrene	0.2	0.02	NA	<0.012	<0.012	<0.012	<0.012
Benzo(b)fluoranthene	0.2	0.02	NA	<0.016	<0.016	<0.016	<0.016
Benzo(ghi)perylene	NS	NS	NA	<0.018	<0.018	<0.018	<0.018
Benzo(k)fluoranthene	NS	NS	NA	<0.0079	<0.0079	<0.0079	<0.0079
Butyl benzyl phthalate	NS	NS	NA	NA	NA	NA	NA
Bis (2-Ethylhexyl) Phthalate	NS	NS	NA	NA	NA	NA	NA
Chrysene	0.2	0.02	NA	<0.0089	<0.0089	<0.0089	<0.0089
Dibenzo(a,h)anthracene	NS	NS	NA	<0.018	<0.018	<0.018	<0.018
Fluoranthene	400	80	NA	<0.019	<0.019	<0.019	<0.019
Fluorene	400	80	NA	<0.02	<0.02	<0.02	<0.02
Indeno(1,2,3-dc)pyrene	NS	NS	NA	<0.0083	<0.0083	<0.0083	<0.0083
Naphthalene	100	10	NA	<0.12	<0.12	<0.12	<0.12
N-Nitroso-Di-N-Propylamin	NS	NS	NA	NA	NA	NA	NA
o-Cresol (2-Methylphenol)	NS	NS	NA	NA	NA	NA	NA
p-Cresol (4-Methylphenol)	NS	NS	NA	NA	NA	NA	NA
Phenanthrene	NS	NS	NA	<0.011	<0.011	<0.011	<0.011
Pyrene	250	50	NA	<0.013	<0.013	<0.013	0.017 Q

**SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	WP-02 - DAMAGED - ABANDONED				
			7/11/94	5/10/99	9/23/99	12/6/99	3/29/00
RCRA Metals (mg/L)							
Antimony	0.006	0.0012	NA	<0.0019 B(-0.0032)	0.0016	<0.00020	<0.00020
Arsenic	0.01	0.001	NA	<0.0024	0.00074 A(0.00035)	0.00057 Q	0.00037 Q
Barium	2	0.4	NA	0.017	0.023	0.022	0.02
Beryllium	0.004	0.0004	NA	<0.00043	<0.000070	<0.000070	<0.0007
Cadmium	0.005	0.0005	NA	<0.00017	<0.000060 A(-0.00047)	<0.000060	0.00014 Q
Chromium	0.1	0.01	NA	0.00070 Q	0.00050 A(-0.00024)	0.0012 A(0.00048)	0.00047 A(-.00008)
Copper	1.3	0.13	NA	<0.00094	0.00087	0.001	0.00028 QA(-.00041)
Iron	0.3	0.15	NA	<0.027	<0.0037 A(-0.022)	<0.0037	<0.0037
Lead	0.015	0.0015	NA	<0.0028	<0.00015	0.00019 Q	<0.00015
Manganese	0.05	0.025	NA	0.00098	0.00026 A(0.00013)	0.00017Q	<0.000069
Mercury	0.002	0.0002	NA	<0.000042	<0.000042	<0.000042	<0.000042
Nickel	0.1	0.02	NA	<0.0022	0.00031 Q	0.00045	0.00016 Q
Selenium	0.05	0.01	NA	<0.00057	<0.00064	<0.00064	<0.00064
Sliver	0.05	0.01	NA	0.00052 Q B(0.00056)	<0.000095 A(-0.00089)	<0.000095	0.00027 Q
Sodium	increase of 10		NA	0.320 Q	0.45	0.49	0.47
Thallium	0.002	0.0004	NA	<0.0013	<0.000093	<0.000093	<.000093
Zinc	5	2.5	NA	0.074	0.014	0.019	0.014
Polychlorinated Biphenyls (PCBs) (µg/L):							
Aroclor-1016	NS	NS	NA	NA	NA	NA	NA
Aroclor-1221	NS	NS	NA	NA	NA	NA	NA
Aroclor-1232	NS	NS	NA	NA	NA	NA	NA
Aroclor-1242	NS	NS	NA	NA	NA	NA	NA
Aroclor-1248	NS	NS	NA	NA	NA	NA	NA
Aroclor-1254	NS	NS	NA	NA	NA	NA	NA
Aroclor-1260	NS	NS	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA
General Chemistry Parameters (mg/L)							
Alkalinity	increase of 100		NA	150	140	140	140
Ammonia	NS	NS	NA	NA	NA	NA	NA
BOD	increase of 25		NA	NA	NA	NA	NA
COD	increase of 25		NA	NA	NA	NA	NA
Chloride	250	125	NA	0.62 Q	<0.24	0.57	0.30 Q
Cyanide	0.2	0.04	NA	NA	NA	NA	NA
Sulfate	250	125	NA	4.9	3.2	3.6	4.7
TDS	increase of 200		NA	NA	NA	NA	NA
TSS	NS	NS	NA	NA	NA	NA	NA
Hardness, Total	increase of 100		NA	NA	NA	NA	NA
Bicarbonate Alkalinity	NS	NS	NA	150	140	140	140
Carbonate Alkalinity	NS	NS	NA	<2.5	<2.5	4.0 Q	<1.9
Conductance, specific (umhos/c)	increase of 200		NA	NA	NA	NA	NA
Ferrous Iron	NS	NS	NA	<0.043	<0.043	<0.044	<.044
Nitrogen, nitrate	increase of 2		NA	0.23 Q	0.14	0.3	0.39
Nitrogen, NO3 + NO2	increase of 2		NA	NA	NA	NA	NA
pH, Laboratory (su)	increase of 1		NA	NA	NA	NA	NA
TOC as NPOC - Filtered	increase of 1		NA	1.1 B(0.70)	1.4	<0.50	1.6 A(.48)
Field Screening Measurements							
pH		IU	7.76	8.14	8.36	8.03	8.02
Conductivity		uS	249	226	261	254	250
Temperature		°C	13	9.8	16.3	12.6	7.8
Dissolved Oxygen		ppm	NA	11.7	9.06	8.94	6.9
Redox Potential		mV	NA	201	111	120	220

SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	WP-04										
			7/11/94	5/10/99	9/23/99	12/6/99	3/29/00	4/14/05	10/19/06	9/19/07	9/25/12	10/22/13	11/13/14
RCRA Metals (mg/L)													
Antimony	0.006	0.0012	NA	<0.0019 B(-0.0032)	0.0007	<0.00020	0.00020 Q	NA	NA	NA	NA	NA	
Arsenic	0.01	0.001	NA	<0.0024	0.0014 A(0.00035)	0.00097	0.00078	NA	NA	NA	NA	NA	
Barium	2	0.4	NA	0.043	0.047	0.052	0.051	NA	NA	NA	NA	NA	
Beryllium	0.004	0.0004	NA	<0.00043	<0.000070	<0.000070	<0.000070	NA	NA	NA	NA	NA	
Cadmium	0.005	0.0005	NA	<0.00017	<0.000060 A(-0.00047)	<0.000060	0.0003	NA	NA	NA	NA	NA	
Chromium	0.1	0.01	NA	0.00057 Q	0.00054 A(-0.00024)	0.0017 A(0.00048)	0.00023 QA(-0.00008)	NA	NA	NA	NA	NA	
Copper	1.3	0.13	NA	0.0013 Q	0.0027	0.0046	0.0059 A(-0.00041)	NA	NA	NA	NA	NA	
Iron	0.3	0.15	NA	0.17	0.36	0.36	0.028	NA	NA	NA	NA	NA	
Lead	0.015	0.0015	NA	<0.0028	<0.00015	0.00037 Q	0.00051	NA	NA	NA	NA	NA	
Manganese	0.05	0.025	NA	0.029	0.16	0.13	0.0056	NA	NA	NA	NA	NA	
Mercury	0.002	0.0002	NA	<0.000042 *	<0.000042	0.000052 Q	<0.000042	NA	NA	NA	NA	NA	
Nickel	0.1	0.02	NA	0.0027 Q	0.0052	0.006	0.0049	NA	NA	NA	NA	NA	
Selenium	0.05	0.01	NA	<0.00057	<0.00064	0.0010 Q	0.0011 Q	NA	NA	NA	NA	NA	
Sliver	0.05	0.01	NA	<0.00046	<0.000095 A(-0.00089)	<0.000095	<0.0010	NA	NA	NA	NA	NA	
Sodium	increase of 10		NA	5.7	6.6	6.6	5.4	NA	NA	NA	NA	NA	
Thallium	0.002	0.0004	NA	<0.0013	<0.00093	<0.00093	<0.00093	NA	NA	NA	NA	NA	
Zinc	5	2.5	NA	0.12	0.15	0.18	0.29	NA	NA	NA	NA	NA	
Poychlorinated Biphenyls (PCBs) (µg/L):													
Aroclor-1016	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1221	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1232	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1242	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1248	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1254	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1260	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
General Chemistry Parameters (mg/L)													
Alkalinity	increase of 100		NA	320	310	360	330	NA	NA	NA	NA	NA	
Ammonia	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BOD	increase of 25		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
COD	increase of 25		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloride	250	125	NA	17	12	22	17	NA	NA	NA	NA	NA	
Cyanide	0.2	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sulfate	250	125	NA	28	26	34	29	NA	NA	NA	NA	NA	
TDS	increase of 200		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TSS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hardness, Total	increase of 100		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bicarbonate Alkalinity	NS	NS	NA	320	310	360	330	NA	NA	NA	NA	NA	
Carbonate Alkalinity	NS	NS	NA	<2.5	<2.5	<1.9	<1.9	NA	NA	NA	NA	NA	
Conductance, specific (umhos/c)	increase of 200		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ferrous Iron	NS	NS	NA	<0.043	<0.043	<0.044	<0.044	NA	NA	NA	NA	NA	
Nitrogen, nitrate	increase of 2		NA	0.25 Q	0.61	1.4	1.1	NA	NA	NA	NA	NA	
Nitrogen, NO3 + NO2	increase of 2		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
pH, Laboratory (su)	increase of 1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TOC as NPOC - Filtered	increase of 1		NA	2.7	4.2	2	4.1 A(.48)	NA	NA	NA	NA	NA	
Field Screening Measurements													
pH		IU	7.18	7.3	7.36	7.19	7.15	7.2	7.23	6.73	7.01	7.23	7.17
Conductivity		uS	539	625	630	715	628	638	540.5	675	705	550	783
Temperature		°C	18	10.4	16.2	8.4	7.5	7	11.1	17	15.11	11.4	7.91
Dissolved Oxygen		ppm	NA	1.68	1.8	1.98	1.98	253	3.2	0.76	0.28	1.14	0.32
Redox Potential		mV	NA	133	116	120	80	64	34	-31	-86.8	66.1	-42

TABLE 2

SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
 FORMER GRAVEL PIT
 TOWN OF NEWTON, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	WP-05 - ABANDONED							
			7/11/94	5/10/99	10/5/99	12/8/99	3/31/00	4/14/05	9/6/07	
Volatile Organic Compounds (VOCs) (µg/L):										
Benzene	5	0.5	<1.0	<0.44	<0.44	<0.44	<0.44	<0.44	<0.41 H	NS
t-Butylbenzene	NS	NS	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.97 H	NS
Chloromethane	3	0.3								NS
2-Chlorotoluene	NS	NS	<1.0	<0.65	<0.65	<0.65	<0.65	<0.65	<0.85 H	NS
1,2-Dichloroethane	5	0.5	<1.0	<0.54	<0.54	<0.54	<0.54	<0.54	<0.36 H	NS
1,1-Dichloroethane	850	85	<1.0	<0.61	<0.61	<0.61	<0.61	<0.61	<0.75 H	NS
1,1-Dichloroethene	7	0.7	<1.0	<0.47	<0.47	<0.47	<0.47	<0.47	<0.57 H	NS
cis-1,2-Dichloroethene	70	7	<1.0	<0.46	<0.46	<0.46	<0.46	<0.46	<0.83 H	NS
trans-1,2-Dichloroethene	100	20	NA	<0.64	<0.64	<0.64	<0.64	<0.64	<0.89 H	NS
Ethylbenzene	700	140	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.54 H	NS
Isopropylbenzene	NS	NS	<1.0	<0.39	<0.39	<0.39	<0.39	<0.39	<0.59 H	NS
Methylene chloride	5	0.5	4.5	<0.38	<0.38	<0.38	<0.38	<0.38	<0.43 H	NS
Naphthalene	100	10	<1.0	<0.59	<0.59	<0.59	<0.59	<0.59	<0.74 H	NS
n-Propylbenzene	NS	NS	<1.0	<0.54	<0.54	<0.54	<0.54	<0.54	<0.81 H	NS
Tetrachloroethene	5	0.5	<1.0	<0.41	<0.41	<0.41	<0.41	<0.41	<0.45 H	NS
Toluene	1,000	200	<1.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.67 H	NS
1,1,1-Trichloroethane	200	40	<1.0	<0.53	<0.53	<0.53	<0.53	<0.53	<0.90 H	NS
Trichloroethene	5	0.5	<1.0	<0.49	<0.49	<0.49	<0.49	<0.49	<0.48 H	NS
1,2,4-Trimethylbenzene	--	--	<1.0	<0.47	<0.47	<0.47	<0.47	<0.47	<0.97 H	NS
1,3,5-Trimethylbenzene	--	--	<1.0	<0.45	<0.45	<0.45	<0.45	<0.45	<0.83 H	NS
Total Trimethylbenzene	480	96	<1.0	<0.47	<0.47	<0.47	<0.47	<0.47	<0.97 H	NS
Vinyl Chloride	0.2	0.02	<1.0	<0.52	<0.17	<0.17	<0.17	<0.17	<0.18 H	NS
Xylenes, m + p	--	--	<2.0	<0.77	<0.77	<0.77	<0.77	<0.77	<1.8 H	NS
Xylene, o	--	--	<1.0	<0.54	<0.54	<0.54	<0.54	<0.54	<0.83 H	NS
Total Xylenes	10,000	1,000	<2.0	<0.77	<0.77	<0.77	<0.77	<0.77	<1.8 H	NS
Styrene	100	10	<1.0	<0.37	<0.37	<0.37	<0.37	<0.37	<0.86 H&	NS
Ethane	NS	NS	NA	<2.3	<10	<10	<10	<10	NA	NS
Ethene	NS	NS	NA	<1.4	<10	<10	<10	<10	NA	NS
Methane	NS	NS	NA	210	280	31	180	180	NA	NS
SVOCs Polycyclic Aromatic Hydrocarbons (PAHs) (µg/L):										
1-Methylnaphthalene	NS	NS	NA	<0.044	<0.044	<0.044	<0.044	<0.044	NA	NS
2-Methylnaphthalene	NS	NS	NA	<0.049	<0.049	<0.049	<0.049	<0.049	NA	NS
Acenaphthene	NS	NS	NA	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NS
Acenaphthylene	NS	NS	NA	<0.18	<0.18	<0.18	<0.18	<0.18	NA	NS
Anthracene	3000	600	NA	<0.0089	<0.0089	<0.0089	<0.0089	<0.0089	NA	NS
Benzo(a)anthracene	NS	NS	NA	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	NA	NS
Benzo(a)pyrene	0.2	0.02	NA	<0.012	<0.012	<0.012	<0.012	<0.012	NA	NS
Benzo(b)fluoranthene	0.2	0.02	NA	<0.016	<0.016	<0.016	<0.016	<0.016	NA	NS
Benzo(ghi)perylene	NS	NS	NA	0.019 Q	<0.018	<0.018	<0.018	<0.018	NA	NS
Benzo(k)fluoranthene	NS	NS	NA	<0.0079	<0.0079	<0.0079	<0.0079	<0.0079	NA	NS
Butyl benzyl phthalate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NS
Bis(2-Ethylhexyl) Phthalate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NS
Chrysene	0.2	0.02	NA	0.024 Q	<0.0089	<0.0089	<0.0089	<0.0089	NA	NS
Dibenzo(a,h)anthracene	NS	NS	NA	<0.018	<0.018	<0.018	<0.018	<0.018	NA	NS
Fluoranthene	400	80	NA	<0.019	<0.019	<0.019	<0.019	<0.019	NA	NS
Fluorene	400	80	NA	<0.02	<0.02	<0.02	<0.02	<0.02	NA	NS
Indeno(1,2,3-dc)pyrene	NS	NS	NA	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	NA	NS
Naphthalene	100	10	NA	<0.12	<0.12	<0.12	<0.12	<0.12	NA	NS
N-Nitroso-Di-N-Propylamin	NS	NS	NA	NA	NA	NA	NA	NA	NA	NS
o-Cresol (2-Methylphenol)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NS
p-Cresol (4-Methylphenol)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NS
Phenanthrene	NS	NS	NA	<0.011	<0.011	<0.011	<0.011	<0.011	NA	NS
Pyrene	250	50	NA	<0.013	<0.013	<0.013	<0.013	<0.013	NA	NS

TABLE 2

**SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	WP-05 - ABANDONED						
			7/11/94	5/10/99	10/5/99	12/8/99	3/31/00	4/14/05	9/6/07
RCRA Metals (mg/L)									
Antimony	0.006	0.0012	NA	<0.0019 B(-0.0032)	<0.00016	0.0023	<0.00020	NA	NS
Arsenic	0.01	0.001	NA	<0.0024	0.0016 A(-0.00047)	0.0014 A(0.00038)	0.0018 A(0.00034)	NA	NS
Barium	2	0.4	NA	0.043	0.058	0.045	0.046	NA	NS
Beryllium	0.004	0.0004	NA	<0.00043	<0.000070	<0.000070	<0.000070	NA	NS
Cadmium	0.005	0.0005	NA	<0.00017	<0.000076 A(0.00013)	<0.000060	0.00015 Q	NA	NS
Chromium	0.1	0.01	NA	0.00068 Q	0.0015 A(0.00020)	0.00063 A(0.00012)	0.00026 A(0.00017)	NA	NS
Copper	1.3	0.13	NA	<0.00094	0.00083	<0.00025	0.0013 A(-0.0003)	NA	NS
Iron	0.3	0.15	NA	0.034 Q	0.130 A(0.0097)	0.011 QA(0.022)	<0.0037 A(-0.024)	NA	NS
Lead	0.015	0.0015	NA	<0.0028	<0.00015	<0.00015	0.00034 Q	NA	NS
Manganese	0.05	0.025	NA	0.33	0.48	0.32	0.28	NA	NS
Mercury	0.002	0.0002	NA	<0.000042	<0.000042	<0.000042	<0.000042	NA	NS
Nickel	0.1	0.02	NA	0.0094	0.0075	0.0082	0.012	NA	NS
Selenium	0.05	0.01	NA	<0.00057	<0.00064	0.00079 Q	<0.00064 A(0.00083)	NA	NS
Silver	0.05	0.01	NA	<0.00046	<0.000095	<0.000095 A(-0.00041)	<0.00010 A(0.00047)	NA	NS
Sodium	increase of 10		NA	5.6	4.6	5.1	6.4	NA	NS
Thallium	0.002	0.0004	NA	<0.0013	<0.000093	<0.000093	<0.000093	NA	NS
Zinc	5	2.5	NA	0.096	0.23	0.093 A(-0.0048)	0.19	NA	NS
Poychlorinated Biphenyls (PCBs) (µg/L):									
Aroclor-1016	NS	NS	NA	NA	NA	NA	NA	NA	NS
Aroclor-1221	NS	NS	NA	NA	NA	NA	NA	NA	NS
Aroclor-1232	NS	NS	NA	NA	NA	NA	NA	NA	NS
Aroclor-1242	NS	NS	NA	NA	NA	NA	NA	NA	NS
Aroclor-1248	NS	NS	NA	NA	NA	NA	NA	NA	NS
Aroclor-1254	NS	NS	NA	NA	NA	NA	NA	NA	NS
Aroclor-1260	NS	NS	NA	NA	NA	NA	NA	NA	NS
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NS
General Chemistry Parameters (mg/L)									
Alkalinity	increase of 100		NA	340	420	340	340	NA	NS
Ammonia	NS	NS	NA	NA	NA	NA	NA	NA	NS
BOD	increase of 25		NA	NA	NA	NA	NA	NA	NS
COD	increase of 25		NA	NA	NA	NA	NA	NA	NS
Chloride	250	125	NA	14	17	16	26	NA	NS
Cyanide	0.2	0.04	NA	NA	NA	NA	NA	NA	NS
Sulfate	250	125	NA	34	29	35	34	NA	NS
TDS	increase of 200		NA	NA	NA	NA	NA	NA	NS
TSS	NS	NS	NA	NA	NA	NA	NA	NA	NS
Hardness, Total	increase of 100		NA	NA	NA	NA	NA	NA	NS
Bicarbonate Alkalinity	NS	NS	NA	340	420	340	340	NA	NS
Carbonate Alkalinity	NS	NS	NA	<2.5	<1.9	<1.9	<1.9	NA	NS
Conductance, specific (umhos/c)	increase of 200		NA	NA	NA	NA	NA	NA	NS
Ferrous Iron	NS	NS	NA	<0.043	<0.043	<0.044	<0.044	NA	NS
Nitrogen, nitrate	increase of 2		NA	0.98	0.43	0.16 Q	0.92	NA	NS
Nitrogen, NO3 + NO2	increase of 2		NA	NA	NA	NA	1	NA	NS
pH, Laboratory (su)	increase of 1		NA	NA	NA	NA	NA	NA	NS
TOC as NPOC - Filtered	increase of 1		NA	3.2 B(0.70)	4.6	1.2 Q	3.7 A(0.67)	NA	NS
Field Screening Measurements									
pH		IU	6.57	6.73	6.86	6.67	6.7	6.94	NS
Conductivity		uS	850	680	722	694	692	696	NS
Temperature		°C	12	10.5	3.9	11.8	8.4	8.4	NS
Dissolved Oxygen		ppm	NA	1.4	1.09	1.33	1.29	1.79	NS
Redox Potential		mV	NA	165	33	17	26	-12	NS

**SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	WP-08 - ABANDONED								
			7/11/94	5/10/99	10/5/99	12/9/99	3/31/00	4/14/05	10/19/06	9/6/07	
Volatile Organic Compounds (VOCs) (µg/L):											
Benzene	5	0.5	1.1	<0.44	<0.44	<0.44	<0.44	<0.44	<0.41 H	<0.41	NS
t-Butylbenzene	NS	NS	NA	0.61 Q	<0.50	<0.50	<0.50	<0.50	<0.97 H	<0.97	NS
Chloromethane	3	0.3									NS
2-Chlorotoluene	NS	NS	<1.0	<0.65	<0.65	<0.65	<0.65	<0.65	<0.85 H	<0.85	NS
1,2-Dichloroethane	5	0.5	<1.0	<0.54	<0.54	<0.54	<0.54	<0.54	<0.36 H	<0.36	NS
1,1-Dichloroethane	850	85	<1.0	<0.61	<0.61	<0.61	<0.61	<0.61	<0.75 H	<0.75	NS
1,1-Dichloroethene	7	0.7	<1.0	<0.47	<0.47	<0.47	<0.47	<0.47	<0.57 H	<0.57	NS
cis-1,2-Dichloroethene	70	7	<1.0	<0.46	<0.46	<0.46	<0.46	<0.46	<0.83 H	<0.83	NS
trans-1,2-Dichloroethene	100	20	NA	<0.64	<0.64	<0.64	<0.64	<0.64	<0.89 H	<0.89	NS
Ethylbenzene	700	140	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.54 H	<0.54	NS
Isopropylbenzene	NS	NS	<1.0	<0.39	<0.39	<0.39	<0.39	<0.39	<0.59 H	<0.59	NS
Methylene chloride	5	0.5	6.3 B	<0.38	<0.38	<0.38	<0.38	<0.38	<0.43 H	<0.43	NS
Naphthalene	100	10	1.1	<0.59	<0.59	<0.59	<0.59	<0.59	<0.74 H	<0.74	NS
n-Propylbenzene	NS	NS	<1.0	<0.54	<0.54	<0.54	<0.54	<0.54	<0.81 H	<0.81	NS
Tetrachloroethene	5	0.5	<1.0	<0.41	<0.41	<0.41	<0.41	<0.41	<0.45 H	<0.45	NS
Toluene	1,000	200	<1.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.67 H	<0.67	NS
1,1,1-Trichloroethane	200	40	<1.0	<0.53	<0.53	<0.53	<0.53	<0.53	<0.90 H	<0.90	NS
Trichloroethene	5	0.5	<1.0	<0.49	<0.49	<0.49	<0.49	<0.49	<0.48 H	<0.48	NS
1,2,4-Trimethylbenzene	--	--	<1.0	<0.47	<0.47	<0.47	<0.47	<0.47	<0.97 H	<0.97	NS
1,3,5-Trimethylbenzene	--	--	<1.0	<0.45	<0.45	<0.45	<0.45	<0.45	<0.83 H	<0.83	NS
Total Trimethylbenzene	480	96	<1.0	<0.47	<0.47	<0.47	<0.47	<0.47	<0.97 H	<0.97	NS
Vinyl Chloride	0.2	0.02	<1.0	<0.52	<0.17	<0.17	<0.17	<0.17	<0.18 H	<0.18	NS
Xylenes, m + p	--	--	<2.0	<0.77	<0.77	<0.77	<0.77	<0.77	<1.8 H	<1.8	NS
Xylene, o	--	--	<1.0	<0.54	<0.54	<0.54	<0.54	<0.54	<0.83 H	<0.83	NS
Total Xylenes	10,000	1,000	<2.0	<0.77	<0.77	<0.77	<0.77	<0.77	<1.8 H	<1.8	NS
Styrene	100	10	<1.0	<0.37	<0.37	<0.37	<0.37	<0.37	<0.86 H&	<0.86	NS
Ethane	NS	NS	NA	<1.8	<10	<10	<10	<10	NA	<10	NS
Ethene	NS	NS	NA	<2.3	<10	<10	<10	<10	NA	<10	NS
Methane	NS	NS	NA	140	150	260	110	110	NA	54	NS
SVOCs Polycyclic Aromatic Hydrocarbons (PAHs) (µg/L):											
1-Methylnaphthalene	NS	NS	NA	0.069 Q	<0.044	<0.044	<0.044	<0.044	NA	NA	NS
2-Methylnaphthalene	NS	NS	NA	0.3	<0.049	<0.049	<0.049	<0.049	NA	NA	NS
Acenaphthene	NS	NS	NA	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	NS
Acenaphthylene	NS	NS	NA	<0.18	<0.18	<0.18	<0.18	<0.18	NA	NA	NS
Anthracene	3000	600	NA	0.068	0.11	0.053	0.020 Q	0.020 Q	NA	NA	NS
Benzo(a)anthracene	NS	NS	NA	0.053	0.22	0.084	0.011 Q	0.011 Q	NA	NA	NS
Benzo(a)pyrene	0.2	0.02	NA	0.025 Q	<0.012	0.097	<0.012	<0.012	NA	NA	NS
Benzo (b)fluoranthene	0.2	0.02	NA	0.11	0.28	0.078	<0.016	<0.016	NA	NA	NS
Benzo(ghi)perylene	NS	NS	NA	0.056 Q	NA	0.056	<0.018	<0.018	NA	NA	NS
Benzo(k)fluoranthene	NS	NS	NA	0.028	NA	0.053	<0.0079	<0.0079	NA	NA	NS
Butyl benzyl phthalate	NS	NS	NA	NA	<0.018	NA	NA	NA	NA	NA	NS
Bis (2-Ethylhexyl) Phthalate	NS	NS	NA	NA	0.12	NA	NA	NA	NA	NA	NS
Chrysene	0.2	0.02	NA	0.045	0.2	0.08	0.022 Q	0.022 Q	NA	NA	NS
Dibenzo(a,h)anthracene	NS	NS	NA	<0.018	0.026 Q	<0.018	<0.018	<0.018	NA	NA	NS
Fluoranthene	400	80	NA	0.1	0.34	0.19	<0.019	<0.019	NA	NA	NS
Fluorene	400	80	NA	0.13	0.11	0.071	0.053 Q	0.053 Q	NA	NA	NS
Indeno(1,2,3-dc)pyrene	NS	NS	NA	0.031	0.19	0.064	<0.0083	<0.0083	NA	NA	NS
Naphthalene	100	10	NA	0.25 Q	<0.12	<0.12	<0.12	<0.12	NA	NA	NS
N-Nitroso-Di-N-Propylamin	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NS
o-Cresol (2-Methylphenol)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NS
p-Cresol (4-Methylphenol)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NS
Phenanthrene	NS	NS	NA	0.2	0.35	0.16	0.049	0.049	NA	NA	NS
Pyrene	250	50	NA	<0.013	0.43	0.19	0.038 Q	0.038 Q	NA	NA	NS

**SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	WP-08 - ABANDONED							
			7/11/94	5/10/99	10/5/99	12/9/99	3/31/00	4/14/05	10/19/06	9/6/07
RCRA Metals (mg/L)										
Antimony	0.006	0.0012	NA	<0.0019 B(-0.0032)	0.0017	<0.00020	<0.00020	NA	NA	NS
Arsenic	0.01	0.001	NA	<0.0024	0.0031 A(-0.00047)	0.002 A(0.00038)	0.0018 A(0.00034)	NA	NA	NS
Barium	2	0.4	NA	0.1	0.1	0.095	0.11	NA	NA	NS
Beryllium	0.004	0.0004	NA	<0.00043	<0.000070	<0.000070	<0.000070	NA	NA	NS
Cadmium	0.005	0.0005	NA	<0.00017	<0.000076 A(0.00013)	0.00023	0.00010 Q	NA	NA	NS
Chromium	0.1	0.01	NA	<0.00053	0.0027 A(0.00020)	0.0010 A(0.00012)	0.00088 A(0.00017)	NA	NA	NS
Copper	1.3	0.13	NA	<0.00094	0.0016	0.00087	0.0018 A(-0.0003)	NA	NA	NS
Iron	0.3	0.15	NA	3.3	2.2	2.2	2.6	NA	NA	NS
Lead	0.015	0.0015	NA	<0.0028	<0.00015	0.0021 Q	<0.00055	NA	NA	NS
Manganese	0.05	0.025	NA	0.66	0.58	0.56	0.62	NA	NA	NS
Mercury	0.002	0.0002	NA	<0.000042	<0.000042	<0.000042	<0.000042	NA	NA	NS
Nickel	0.1	0.02	NA	0.0051 Q	0.008	0.0099	0.013	NA	NA	NS
Selenium	0.05	0.01	NA	<0.0023	0.00076 Q	0.0022	0.0014 QA(0.00083)	NA	NA	NS
Sliver	0.05	0.01	NA	<0.00046	<0.000098	<0.000095 A(-0.00041)	<0.00010 A(0.00047)	NA	NA	NS
Sodium	increase of 10		NA	56	55	50	47	NA	NA	NS
Thallium	0.002	0.0004	NA	<0.0013	<0.000093	<0.000093	<0.000093	NA	NA	NS
Zinc	5	2.5	NA	1.1	0.2	0.42	0.22	NA	NA	NS
Polychlorinated Biphenyls (PCBs) (µg/L):										
Aroclor-1016	NS	NS	NA	NA	NA	NA	NA	NA	NA	NS
Aroclor-1221	NS	NS	NA	NA	NA	NA	NA	NA	NA	NS
Aroclor-1232	NS	NS	NA	NA	NA	NA	NA	NA	NA	NS
Aroclor-1242	NS	NS	NA	NA	NA	NA	NA	NA	NA	NS
Aroclor-1248	NS	NS	NA	NA	NA	NA	NA	NA	NA	NS
Aroclor-1254	NS	NS	NA	NA	NA	NA	NA	NA	NA	NS
Aroclor-1260	NS	NS	NA	NA	NA	NA	NA	NA	NA	NS
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NS
General Chemistry Parameters (mg/L)										
Alkalinity	increase of 100		NA	830	1200	880	800	NA	NA	NS
Ammonia	NS	NS	NA	NA	NA	NA	NA	NA	NA	NS
BOD	increase of 25		NA	NA	NA	NA	NA	NA	NA	NS
COD	increase of 25		NA	NA	NA	NA	NA	NA	NA	NS
Chloride	250	125	NA	33	35	32	29	NA	NA	NS
Cyanide	0.2	0.04	NA	NA	NA	NA	NA	NA	NA	NS
Sulfate	250	125	NA	38	41	70	37	NA	NA	NS
TDS	increase of 200		NA	NA	NA	NA	NA	NA	NA	NS
TSS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NS
Hardness, Total	increase of 100		NA	NA	NA	NA	NA	NA	NA	NS
Bicarbonate Alkalinity	NS	NS	NA	830	1200	880	800	NA	NA	NS
Carbonate Alkalinity	NS	NS	NA	<2.5	<19	<1.9	<9.5	NA	NA	NS
Conductance, specific (umhos/c)	increase of 200		NA	NA	NA	NA	NA	NA	NA	NS
Ferrous Iron	NS	NS	NA	<0.043	0.045 Q	0.054 Q	0.37	NA	NA	NS
Nitrogen, nitrate	increase of 2		NA	<0.090	0.26 Q	0.52	0.29	NA	NA	NS
Nitrogen, NO3 + NO2	increase of 2		NA	NA	NA	NA	0.34	NA	NA	NS
pH, Laboratory (su)	increase of 1		NA	NA	NA	NA	NA	NA	NA	NS
TOC as NPOC - Filtered	increase of 1		NA	9.1	7.3	9	7.5 A(0.67)	NA	NA	NS
Field Screening Measurements										
pH		IU	6.74	6.58	6.86	6.75	6.74	6.88	6.52	NS
Conductivity		uS	1947	1456	1550	1495	14.5	1611	1518	NS
Temperature		°C	13	9.5	10.4	11.4	10.8	9.6	10.9	NS
Dissolved Oxygen		ppm	NA	1.59	0.96	0.96	0.96	2.18	1.56	NS
Redox Potential		mV	NA	-60	-44	-49	-42	-18	-56	NS

**SUMMARY OF CONTAMINATES DETECTED IN GROUNDWATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

NOTES:

(1) Enforcement Standard from NR140, January 2007.

(2) Preventive Action Limit from NR140, January 2007.

NL - ES or PAL not listed in NR140.

NA - Not analyzed.

ND - Not detected.

NS - Not sampled.

J - Compound was detected at a concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).

Q - Compound was detected at a concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).

& - LCS recovery was outside of control limits.

H - Holding time exceeded by (n) days

D - The result is from a dilution analysis.

A - Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.

ED - Elevated detection limit due to matrix effects.

MS - Either the matrix spike or matrix spike duplicate was outside of the acceptable control limits. All other supporting QC was within the acceptable control limits.

E - Analyte concentration exceeds calibration range (see Sample Narrative).

* - Duplicate analyses not within control limits.

B(x) - Analyte is detected in the method blank at "x" concentration. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.

N - Spiked sample recovery not within control limits; post-digestion spike recovery accepted.

B - Analyte found in method blank.

OC - Elevated reporting limit due to analyte concentration.

Bold indicates a PAL exceedance.

Bold and underlining indicates an ES exceedance.

Table 3
SUMMARY OF CONTAMINATES DETECTED IN SURFACE WATER

**SUMMARY OF CONTAMINATES DETECTED IN SURFACE WATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	Table 9 NR 105 ⁽¹⁾	SG-1/SW-01	SG-2/SW-02
		(upstream location abandoned 2003)	(upstream location abandoned 2003)
		4/30/1993	4/30/1993
Volatile Organic Compounds (VOCs) (µg/L):			
Benzene	140	<0.30	<0.30
t-Butylbenzene		NA	NA
Chloromethane			
2-Chlorotoluene		<0.37	<0.37
1,2-Dichloroethane	217	<0.38	<0.38
1,1-Dichloroethane		<0.34	<0.34
1,1-Dichloroethene		<0.78	<0.78
cis-1,2-Dichloroethene		<0.39	<0.39
trans-1,2-Dichloroethene		<0.35	<0.35
Ethylbenzene		<0.44	<0.44
Isopropylbenzene		NA	NA
Methylene chloride	2,700	<0.45	<0.45
Naphthalene		<0.34	<0.34
n-Propylbenzene		<0.54	<0.54
Tetrachloroethene	46	<0.52	<0.52
Toluene		<0.29	<0.29
1,1,1-Trichloroethane		<0.30	<0.30
Trichloroethene	539	<0.34	<0.34
1,2,4-Trimethylbenzene		<0.47	<0.47
1,3,5-Trimethylbenzene		<0.47	<0.47
Total Trimethylbenzene		<0.47	<0.47
Vinyl Chloride	10	<0.32	<0.32
Xylenes, m + p		<0.81	<0.81
Xylene, o		<0.41	<0.41
Total Xylenes		<0.81	<0.81
Styrene		<0.30	<0.30
Ethane		NA	NA
Ethene		NA	NA
Methane		NA	NA
SVOCs Polycyclic Aromatic Hydrocarbons (PAHs) (µg/L):			
1-Methylnaphthalene		NA	NA
2-Methylnaphthalene		NA	NA
Acenaphthene		NA	NA
Acenaphthylene		NA	NA
Anthracene		NA	NA
Benzo(a)anthracene		NA	NA
Benzo(a)pyrene		NA	NA
Benzo (b)fluoranthene		NA	NA
Benzo(ghi)perylene		NA	NA
Benzo(k)fluoranthene		NA	NA
Butyl benzyl phthalate		NA	NA
Bis (2-Ethylhexyl) Phthalate		NA	NA
Chrysene		NA	NA
Dibenzo(a,h)anthracene		NA	NA
Fluoranthene		NA	NA
Fluorene		NA	NA
Indeno(1,2,3-dc)pyrene		NA	NA
Naphthalene		NA	NA
N-Nitroso-Di-N-Propylamin		NA	NA
o-Cresol (2-Methylphenol)		NA	NA
p-Cresol (4-Methylphenol)		NA	NA
Phenanthrene		NA	NA
Pyrene		NA	NA

**SUMMARY OF CONTAMINATES DETECTED IN SURFACE WATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	Table 9 NR 105 ⁽¹⁾	SG-1/SW-01 (upstream location abandoned 2003) 4/30/1993	SG-2/SW-02 (upstream location abandoned 2003) 4/30/1993
RCRA Metals (mg/L)			
Antimony		NA	NA
Arsenic	0.0133	NA	NA
Barium		NA	NA
Beryllium	0.00033	NA	NA
Cadmium		NA	NA
Chromium		NA	NA
Copper		NA	NA
Iron		NA	NA
Lead		NA	NA
Manganese		NA	NA
Mercury		NA	NA
Nickel		NA	NA
Selenium		NA	NA
Sliver		NA	NA
Sodium		NA	NA
Thallium		NA	NA
Zinc		NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):			
Aroclor-1016		NA	NA
Aroclor-1221		NA	NA
Aroclor-1232		NA	NA
Aroclor-1242		NA	NA
Aroclor-1248		NA	NA
Aroclor-1254		NA	NA
Aroclor-1260		NA	NA
Total PCBs		NA	NA
General Chemistry Parameters (mg/L)			
Alkalinity		NA	NA
Ammonia		NA	NA
BOD		NA	NA
COD		NA	NA
Chloride		NA	NA
Cyanide		NA	NA
Sulfate		NA	NA
TDS		NA	NA
TSS		NA	NA
Hardness, Total		NA	NA
Bicarbonate Alkalinity		NA	NA
Carbonate Alkalinity		NA	NA
Conductance, specific (umhos/cm)		NA	NA
Ferrous Iron		NA	NA
Nitrogen, nitrate		NA	NA
Nitrogen, NO3 + NO2		NA	NA
pH, Laboratory (su)		NA	NA
TOC as NPOC - Filtered		NA	NA
Field Screening Measurements			
pH		NA	NA
Conductivity		NA	NA
Temperature		NA	NA
Dissolved Oxygen		NA	NA
Redox Potential		NA	NA

**SUMMARY OF CONTAMINATES DETECTED IN SURFACE WATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	Table 9 NR 105 ⁽¹⁾	SG-4 (abandoned 2003)			
		5/19/99	9/30/99	12/8/99	3/30/00
Volatile Organic Compounds (VOCs) (µg/L)					
Benzene	140	<0.44	<0.44	<0.44	<0.44
t-Butylbenzene		<0.50	<0.50	<0.50	<0.50
Chloromethane					
2-Chlorotoluene		<0.65	<0.65	<0.65	<0.65
1,2-Dichloroethane	217	<0.54	<0.54	<0.54	<0.54
1,1-Dichloroethane		<0.61	<0.61	<0.61	<0.61
1,1-Dichloroethene		<0.47	<0.47	<0.47	<0.47
cis-1,2-Dichloroethene		1.4 Q	<0.46	0.8 Q	2.6
trans-1,2-Dichloroethene		<0.64	<0.64	<0.64	<0.64
Ethylbenzene		<0.50	<0.50	<0.50	<0.50
Isopropylbenzene		<0.39	<0.39	<0.39	<0.39
Methylene chloride	2,700	<0.38	<0.38	<0.38	<0.38
Naphthalene		<0.59	<0.59	<0.59	<0.59
n-Propylbenzene		<0.54	<0.54	<0.54	<0.54
Tetrachloroethene	46	<0.41	<0.41	<0.41	<0.41
Toluene		<0.40	<0.40	<0.40	<0.40
1,1,1-Trichloroethane		<0.53	<0.53	<0.53	<0.53
Trichloroethene	539	<0.49	<0.49	<0.49	<0.49
1,2,4-Trimethylbenzene		<0.47	<0.47	<0.47	<0.47
1,3,5-Trimethylbenzene		<0.45	<0.45	<0.45	<0.45
Total Trimethylbenzene		<0.47	<0.47	<0.47	<0.47
Vinyl Chloride	10	<0.52	<0.17	<0.17	0.43
Xylenes, m + p		<0.77	<0.77	<0.77	<0.77
Xylene, o		<0.54	<0.54	<0.54	<0.54
Total Xylenes		<0.77	<0.77	<0.77	<0.77
Styrene		<0.37	<0.37	<0.37	<0.37
Ethane		NA	NA	<10	NA
Ethene		NA	NA	<10	NA
Methane		NA	NA	32	NA
SVOCs Polycyclic Aromatic Hydrocarbons					
1-Methylnaphthalene		<0.044	<0.044	<0.044	<0.044
2-Methylnaphthalene		<0.049	<0.049	<0.049	<0.049
Acenaphthene		<0.20	<0.20	<0.20	<0.20
Acenaphthylene		<0.18	<0.18	<0.18	<0.18
Anthracene		<0.0090	<0.0089	<0.0089	<0.0089
Benzo(a)anthracene		<0.0088	<0.0087	<0.0087	<0.0087
Benzo(a)pyrene		<0.012	<0.012	<0.012	<0.012
Benzo(b)fluoranthene		<0.016	<0.016	<0.016	<0.016
Benzo(ghi)perylene		<0.018	<0.018	<0.018	<0.018
Benzo(k)fluoranthene		<0.0080	<0.0079	<0.0079	<0.0079
Butyl benzyl phthalate		NA	NA	NA	NA
Bis (2-Ethylhexyl) Phthalate		NA	NA	NA	NA
Chrysene		<0.0090	<0.0089	<0.0089	<0.0089
Dibenzo(a,h)anthracene		<0.018	<0.018	<0.018	<0.018
Fluoranthene		<0.019	<0.019	<0.019	<0.019
Fluorene		<0.020	<0.020	<0.020	<0.020
Indeno(1,2,3-dc)pyrene		<0.0084	<0.0083	<0.0083	<0.0083
Naphthalene		<0.12	<0.12	<0.12	<0.12
N-Nitroso-Di-N-Propylamin		NA	NA	NA	NA
o-Cresol (2-Methylphenol)		NA	NA	NA	NA
p-Cresol (4-Methylphenol)		NA	NA	NA	NA
Phenanthrene		<0.011	<0.011	<0.011	<0.011
Pyrene		<0.013	<0.013	<0.013	<0.013

**SUMMARY OF CONTAMINATES DETECTED IN SURFACE WATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	Table 9 NR 105 ⁽¹⁾	SG-4 (abandoned 2003)			
		5/19/99	9/30/99	12/8/99	3/30/00
RCRA Metals (mg/L)					
Antimony		<0.0021	<0.00028	<0.00028	0.00020 Q
Arsenic	0.0133	<0.0027	0.0021	0.0037	0.0011 A(0.00034)
Barium		0.047	0.2	0.27	0.036
Beryllium	0.00033	<0.00063	0.00024	0.00049	<0.000070
Cadmium		<0.00020	<0.00016 A(-0.00040)	0.00068	0.00017 Q
Chromium		0.0012 Q B(0.0011)	0.0077	0.026	0.000080 QA(0.00017)
Copper		0.0044 Q	0.0088	0.032	0.0021 A(-0.0003)
Iron		0.98	3.9	14	0.030 A(-0.024)
Lead		<0.003	0.0061	0.021	<0.00015
Manganese		0.044	0.057 E	0.32	0.014
Mercury		<0.000042	<0.000042	0.000057 Q	<0.000042
Nickel		0.0051 Q	0.006	0.018	0.0012
Selenium		<0.0012	0.0024 Q	0.0042 Q	<0.00064 A(0.00083)
Sliver		<0.00050	0.00099 N,*	<0.000090	<0.00010 A(0.00047)
Sodium		15	13	15	18
Thallium		<0.0014	0.0011 A(0.00031)	NA	<0.000093
Zinc		0.0068 Q	0.025 A(0.0023)	0.098	0.0037 Q
Poychlorinated Biphenyls (PCBs) (µg/L):					
Aroclor-1016		NA	NA	NA	NA
Aroclor-1221		NA	NA	NA	NA
Aroclor-1232		NA	NA	NA	NA
Aroclor-1242		NA	NA	NA	NA
Aroclor-1248		NA	NA	NA	NA
Aroclor-1254		NA	NA	NA	NA
Aroclor-1260		NA	NA	NA	NA
Total PCBs		NA	NA	NA	NA
General Chemistry Parameters (mg/L)					
Alkalinity		NA	NA	NA	NA
Ammonia		NA	NA	NA	NA
BOD		NA	NA	NA	NA
COD		NA	NA	NA	NA
Chloride		NA	NA	NA	NA
Cyanide		NA	NA	NA	NA
Sulfate		NA	NA	NA	NA
TDS		NA	NA	NA	NA
TSS		NA	NA	NA	NA
Hardness, Total		NA	NA	NA	NA
Bicarbonate Alkalinity		NA	NA	NA	NA
Carbonate Alkalinity		NA	NA	NA	NA
Conductance, specific (umhos/cm)		NA	NA	NA	NA
Ferrous Iron		NA	NA	NA	NA
Nitrogen, nitrate		NA	NA	NA	NA
Nitrogen, NO3 + NO2		NA	NA	NA	NA
pH, Laboratory (su)		NA	NA	NA	NA
TOC as NPOC - Filtered		NA	NA	NA	NA
Field Screening Measurements					
pH		7.8	7.41	7.47	7.46
Conductivity		631	690	753	628
Temperature		18.2	13.1	6.9	6.8
Dissolved Oxygen		8.24	7.08	7.29	6.99
Redox Potential		147	208	211	NA

**SUMMARY OF CONTAMINATES DETECTED IN SURFACE WATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	Table 9 NR 105 ⁽¹⁾	SG-01 (2014 Sample Location 4) (new location 2006)					SG-02 (2014 Sample Location 3) (new location 2006)				
		10/18/2006	9/20/2007	9/25/2012	10/22/2013	9/30/2014	10/18/2006	9/20/2007	9/25/2012	10/22/2013	9/30/2014
Volatile Organic Compounds (VOCs) (µg/L)											
Benzene	140	<0.41	<0.47	<0.5	0.33 J	0.40 J	<0.41	<4.7	<5	<0.24	1.31
t-Butylbenzene		<0.97	<0.34	<0.71	<0.36	<0.36	<0.97	<3.4	<7.1	<0.36	<0.36
Chloromethane			<1	<1.9	<0.81	<0.81		<10	<19	<0.81	<0.81
2-Chlorotoluene		<0.85	<0.49	<0.7	<0.21	<0.21	<0.85	<4.9	<7	<0.21	<0.21
1,2-Dichloroethane	217	<0.36	<0.45	<0.5	<0.41	<0.41	<0.36	<4.5	<5	<0.41	<0.41
1,1-Dichloroethane		<0.75	0.63 J	<0.98	<0.3	0.69 J	<0.75	<4.6	<9.8	<0.3	0.96 J
1,1-Dichloroethene		<0.57	<0.64	<0.6	<0.4	<0.4	<0.57	<5.6	<6	<0.4	<0.4
cis-1,2-Dichloroethene		4.0	51.0	102	31.1	50	1.2 Q	<6.4	101	9.7	61
trans-1,2-Dichloroethene		<0.89	<0.95	<0.79	<0.35	<0.35	<0.89	97	<7.9	<0.35	<0.35
Ethylbenzene		<0.54	<0.38	<0.78	<0.55	<0.55	<0.54	<3.8	<7.8	<0.55	<0.55
Isopropylbenzene		<0.59	<0.48	<0.92	<0.3	<0.3	<0.59	<4.8	<9.2	<0.3	<0.3
Methylene chloride	2,700	<0.43	<0.69	<1.1	<0.5	<0.5	<0.43	<6.9	<11	<0.5	<0.5
Naphthalene		<0.74	<1.8	<2.1	<1.7	<1.7	<0.74	<18	<21	<1.7	<1.7
n-Propylbenzene		<0.81	<0.38	<0.59	<0.25	<0.25	<0.81	<3.8	<5.9	<0.25	<0.25
Tetrachloroethene	46	<0.45	<0.52	<0.44	<0.33	<0.33	<0.45	<5.2	<4.4	<0.33	<0.33
Toluene		<0.67	<0.46	<0.53	<0.69	<0.69	<0.67	<4.6	<5.3	<0.69	<0.69
1,1,1-Trichloroethane		<0.90	<0.5	<0.85	<0.33	<0.33	<0.90	<5	<8.5	<0.33	<0.33
Trichloroethene	539	<0.48	1.33 J	1.78	0.40 J	0.80 J	<0.48	<4.4	<4.7	0.46 J	0.63 J
1,2,4-Trimethylbenzene		<0.97	<1.2	<0.8	<2.2	<2.2	<0.97	<12	<8	<2.2	<2.2
1,3,5-Trimethylbenzene		<0.83	<0.37	<0.74	<1.4	<1.4	<0.83	<3.7	<7.4	<1.4	<1.4
Total Trimethylbenzene		<0.97	<1.2	<0.8	<2.2	<2.2	<0.97	<12	<8	<2.2	<2.2
Vinyl Chloride	10	1.8	11.3	32	18.6	24.6	<0.18	51	105	12.4	87
Xylenes, m + p		<1.8	<0.67	<1.1	<0.69	<0.69	<1.8	<6.7	<11	<0.69	<0.69
Xylene, o		<0.83	<0.32	<0.8	<0.63	<0.63	<0.83	<3.2	<8	<0.63	<0.63
Total Xylenes		<1.8	<0.67	<1.1	<0.69	<0.69	<1.8	<6.7	<11	<0.69	<0.69
Styrene		<0.86	NA	NA	NA	NA	<0.86	NA	NA	NA	NA
Ethane		<10	NA	NA	NA	NA	<10	NA	NA	NA	NA
Ethene		<10	NA	NA	NA	NA	<10	NA	NA	NA	NA
Methane		<10	NA	NA	NA	NA	<10	NA	NA	NA	NA
SVOCs Polycyclic Aromatic Hydrocarbons											
1-Methylnaphthalene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b)fluoranthene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis (2-Ethylhexyl) Phthalate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-dc)pyrene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-Di-N-Propylamin		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Cresol (2-Methylphenol)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Cresol (4-Methylphenol)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**SUMMARY OF CONTAMINATES DETECTED IN SURFACE WATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	Table 9 NR 105 ⁽¹⁾	SG-01 (2014 Sample Location 4) (new location 2006)					SG-02 (2014 Sample Location 3) (new location 2006)				
		10/18/2006	9/20/2007	9/25/2012	10/22/2013	9/30/2014	10/18/2006	9/20/2007	9/25/2012	10/22/2013	9/30/2014
RCRA Metals (mg/L)											
Antimony		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.0133	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.00033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sliver		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyls (PCBs) (µg/L):											
Aroclor-1016		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry Parameters (mg/L)											
Alkalinity		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BOD		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COD		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TDS		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TSS		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate Alkalinity		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductance, specific (umhos/cm)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, nitrate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, NO3 + NO2		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH, Laboratory (su)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOC as NPOC - Filtered		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements											
pH		7.4	6.85	7.32	NA	6.44	7.94	6.6	7.21	NA	6.51
Conductivity		797.6	737.7	809	NA	0.758	796.2	745	805	NA	0.766
Temperature		9.7	17.5	15.03	NA	10.85	9.8	17	13.23	NA	10.63
Dissolved Oxygen		7.46	4.82	4.58	NA	5.21	8.58	3.54	4.05	NA	5.32
Redox Potential		147	203	-50.4	NA	23	160	203	-46.4	NA	188

**SUMMARY OF CONTAMINATES DETECTED IN SURFACE WATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	Table 9 NR 105 ⁽¹⁾	SG-03 (2014 Sample Location 5) (new location 2006)						2014 Sample Location 1	2014 Sample Location 2	2014 Sample Location 6	2014 Sample Location 7
		10/18/2006	9/20/2007	9/25/2012	10/22/2013	9/30/2014	9/30/2014 (Dup)	9/30/2014	9/30/2014	9/30/2014	9/30/2014
Volatile Organic Compounds (VOCs) (µg/L)											
Benzene	140	<0.41	<0.47	<0.5	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
t-Butylbenzene		<0.97	<0.34	<0.71	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
Chloromethane			<1	<1.9	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81
2-Chlorotoluene		<0.85	<0.49	<0.7	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
1,2-Dichloroethane	217	<0.36	<0.45	<0.5	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
1,1-Dichloroethane		<0.75	<0.56	<0.98	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
1,1-Dichloroethene		<0.57	<0.64	<0.6	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
cis-1,2-Dichloroethene		<0.83	2.83	2.31 J	<0.38	0.86 J	0.65 J	<0.38	<0.38	11.5	3.3
trans-1,2-Dichloroethene		<0.89	<0.95	<0.79	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
Ethylbenzene		<0.54	<0.38	<0.78	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55
Isopropylbenzene		<0.59	<0.48	<0.92	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Methylene chloride	2,700	<0.43	<0.69	<1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene		<0.74	<1.8	<2.1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
n-Propylbenzene		<0.81	<0.38	<0.59	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Tetrachloroethene	46	<0.45	<0.52	<0.44	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Toluene		<0.67	<0.46	<0.53	<0.69	<0.69	<0.69	<0.69	<0.69	<0.69	<0.69
1,1,1-Trichloroethane		<0.90	<0.5	<0.85	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Trichloroethene	539	<0.48	1.0 J	0.52 J	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
1,2,4-Trimethylbenzene		<0.97	<1.2	<0.8	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
1,3,5-Trimethylbenzene		<0.83	<0.37	<0.74	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Total Trimethylbenzene		<0.97	<1.2	<0.8	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
Vinyl Chloride	10	<0.18	<0.2	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	2.86	0.57
Xylenes, m + p		<1.8	<0.7	<1.1	<0.69	<0.69	<0.69	<0.69	<0.69	<0.69	<0.69
Xylene, o		<0.83	<0.32	<0.8	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63
Total Xylenes		<1.8	<0.67	<1.1	<0.69	<0.69	<0.69	<0.69	<0.69	<0.69	<0.69
Styrene		<0.86	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethane		<10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene		<10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane		<10	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs Polycyclic Aromatic Hydrocarbons											
1-Methylnaphthalene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis (2-Ethylhexyl) Phthalate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-dc)pyrene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-Di-N-Propylamin		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Cresol (2-Methylphenol)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Cresol (4-Methylphenol)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**SUMMARY OF CONTAMINATES DETECTED IN SURFACE WATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	Table 9 NR 105 ⁽¹⁾	SG-03 (2014 Sample Location 5) (new location 2006)						2014 Sample Location 1	2014 Sample Location 2	2014 Sample Location 6	2014 Sample Location 7
		10/18/2006	9/20/2007	9/25/2012	10/22/2013	9/30/2014	9/30/2014 (Dup)	9/30/2014	9/30/2014	9/30/2014	9/30/2014
RCRA Metals (mg/L)											
Antimony		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.0133	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.00033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sliver		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyls (PCBs) (µg/L):											
Aroclor-1016		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry Parameters (mg/L)											
Alkalinity		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BOD		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COD		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TDS		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TSS		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate Alkalinity		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate Alkalinity		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductance, specific (umhos/cm)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, nitrate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, NO3 + NO2		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH, Laboratory (su)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOC as NPOC - Filtered		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements											
pH		8.14	6.71	7.18	NA	6.73	6.73	7.23	7.51	6.53	6.59
Conductivity		798.3	709	828	NA	0.748	0.748	0.656	0.705	0.752	0.736
Temperature		9.7	18.4	13.21	NA	11.40	11.40	11.25	12.36	13.14	11.91
Dissolved Oxygen		8.4	4.04	5.22	NA	9.13	9.13	3.22	4.21	4.01	7.22
Redox Potential		114	200	-80.3	NA	175	175	194	194	164	171

**SUMMARY OF CONTAMINATES DETECTED IN SURFACE WATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	Table 9 NR 105 ⁽¹⁾	2014	2014	2014	2014	2014
		Sample Location 8	Sample Location 9	Sample Location 10	Sample Location 11	Sample Location 12
		9/30/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014
Volatile Organic Compounds (VOCs) (µg/L)						
Benzene	140	<0.24	<0.24	<0.24	<0.24	<0.24
t-Butylbenzene		<0.36	<0.36	<0.36	<0.36	<0.36
Chloromethane		<0.81	<0.81	<0.81	<0.81	<0.81
2-Chlorotoluene		<0.21	<0.21	<0.21	<0.21	<0.21
1,2-Dichloroethane	217	<0.41	<0.41	<0.41	<0.41	<0.41
1,1-Dichloroethane		<0.3	<0.3	<0.3	<0.3	<0.3
1,1-Dichloroethene		<0.4	<0.4	<0.4	<0.4	<0.4
cis-1,2-Dichloroethene		<0.38	<0.38	<0.38	<0.38	<0.38
trans-1,2-Dichloroethene		<0.35	<0.35	<0.35	<0.35	<0.35
Ethylbenzene		<0.55	<0.55	<0.55	<0.55	<0.55
Isopropylbenzene		<0.3	<0.3	<0.3	<0.3	<0.3
Methylene chloride	2,700	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene		<1.7	<1.7	<1.7	<1.7	<1.7
n-Propylbenzene		<0.25	<0.25	<0.25	<0.25	<0.25
Tetrachloroethene	46	<0.33	<0.33	<0.33	<0.33	<0.33
Toluene		<0.69	<0.69	<0.69	<0.69	<0.69
1,1,1-Trichloroethane		<0.33	<0.33	<0.33	<0.33	<0.33
Trichloroethene	539	<0.33	<0.33	<0.33	<0.33	<0.33
1,2,4-Trimethylbenzene		<2.2	<2.2	<2.2	<2.2	<2.2
1,3,5-Trimethylbenzene		<1.4	<1.4	<1.4	<1.4	<1.4
Total Trimethylbenzene		<2.2	<2.2	<2.2	<2.2	<2.2
Vinyl Chloride	10	<0.18	<0.18	<0.18	<0.18	<0.18
Xylenes, m + p		<0.69	<0.69	<0.69	<0.69	<0.69
Xylene, o		<0.63	<0.63	<0.63	<0.63	<0.63
Total Xylenes		<0.69	<0.69	<0.69	<0.69	<0.69
Styrene		NA	NA	NA	NA	NA
Ethane		NA	NA	NA	NA	NA
Ethene		NA	NA	NA	NA	NA
Methane		NA	NA	NA	NA	NA
SVOCs Polycyclic Aromatic Hydrocarbons						
1-Methylnaphthalene		NA	NA	NA	NA	NA
2-Methylnaphthalene		NA	NA	NA	NA	NA
Acenaphthene		NA	NA	NA	NA	NA
Acenaphthylene		NA	NA	NA	NA	NA
Anthracene		NA	NA	NA	NA	NA
Benzo(a)anthracene		NA	NA	NA	NA	NA
Benzo(a)pyrene		NA	NA	NA	NA	NA
Benzo (b)fluoranthene		NA	NA	NA	NA	NA
Benzo(ghi)perylene		NA	NA	NA	NA	NA
Benzo(k)fluoranthene		NA	NA	NA	NA	NA
Butyl benzyl phthalate		NA	NA	NA	NA	NA
Bis (2-Ethylhexyl) Phthalate		NA	NA	NA	NA	NA
Chrysene		NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene		NA	NA	NA	NA	NA
Fluoranthene		NA	NA	NA	NA	NA
Fluorene		NA	NA	NA	NA	NA
Indeno(1,2,3-dc)pyrene		NA	NA	NA	NA	NA
Naphthalene		NA	NA	NA	NA	NA
N-Nitroso-Di-N-Propylamin		NA	NA	NA	NA	NA
o-Cresol (2-Methylphenol)		NA	NA	NA	NA	NA
p-Cresol (4-Methylphenol)		NA	NA	NA	NA	NA
Phenanthrene		NA	NA	NA	NA	NA
Pyrene		NA	NA	NA	NA	NA

**SUMMARY OF CONTAMINATES DETECTED IN SURFACE WATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

Analyte	Table 9 NR 105 ⁽¹⁾	2014 Sample Location 8 9/30/2014	2014 Sample Location 9 9/30/2014	2014 Sample Location 10 9/30/2014	2014 Sample Location 11 9/30/2014	2014 Sample Location 12 9/30/2014
RCRA Metals (mg/L)						
Antimony		NA	NA	NA	NA	NA
Arsenic	0.0133	NA	NA	NA	NA	NA
Barium		NA	NA	NA	NA	NA
Beryllium	0.00033	NA	NA	NA	NA	NA
Cadmium		NA	NA	NA	NA	NA
Chromium		NA	NA	NA	NA	NA
Copper		NA	NA	NA	NA	NA
Iron		NA	NA	NA	NA	NA
Lead		NA	NA	NA	NA	NA
Manganese		NA	NA	NA	NA	NA
Mercury		NA	NA	NA	NA	NA
Nickel		NA	NA	NA	NA	NA
Selenium		NA	NA	NA	NA	NA
Sliver		NA	NA	NA	NA	NA
Sodium		NA	NA	NA	NA	NA
Thallium		NA	NA	NA	NA	NA
Zinc		NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):						
Aroclor-1016		NA	NA	NA	NA	NA
Aroclor-1221		NA	NA	NA	NA	NA
Aroclor-1232		NA	NA	NA	NA	NA
Aroclor-1242		NA	NA	NA	NA	NA
Aroclor-1248		NA	NA	NA	NA	NA
Aroclor-1254		NA	NA	NA	NA	NA
Aroclor-1260		NA	NA	NA	NA	NA
Total PCBs		NA	NA	NA	NA	NA
General Chemistry Parameters (mg/L)						
Alkalinity		NA	NA	NA	NA	NA
Ammonia		NA	NA	NA	NA	NA
BOD		NA	NA	NA	NA	NA
COD		NA	NA	NA	NA	NA
Chloride		NA	NA	NA	NA	NA
Cyanide		NA	NA	NA	NA	NA
Sulfate		NA	NA	NA	NA	NA
TDS		NA	NA	NA	NA	NA
TSS		NA	NA	NA	NA	NA
Hardness, Total		NA	NA	NA	NA	NA
Bicarbonate Alkalinity		NA	NA	NA	NA	NA
Carbonate Alkalinity		NA	NA	NA	NA	NA
Conductance, specific (umhos/cm)		NA	NA	NA	NA	NA
Ferrous Iron		NA	NA	NA	NA	NA
Nitrogen, nitrate		NA	NA	NA	NA	NA
Nitrogen, NO3 + NO2		NA	NA	NA	NA	NA
pH, Laboratory (su)		NA	NA	NA	NA	NA
TOC as NPOC - Filtered		NA	NA	NA	NA	NA
Field Screening Measurements						
pH		6.49	6.53	6.25	7.21	6.72
Conductivity		0.775	0.737	0.987	0.971	0.825
Temperature		11.45	12.27	12.01	13.04	12.10
Dissolved Oxygen		6.21	6.53	7.32	15.71	5.73
Redox Potential		175	177	177	167	170

**SUMMARY OF CONTAMINATES DETECTED IN SURFACE WATER
FORMER GRAVEL PIT
TOWN OF NEWTON, WISCONSIN**

NOTES:

(1) WAC Chapter NR 105, Table 9 Human Cancer Criteria Standards for a non-public water supply that is a "warm water forage, limited forage and warm water sport fish community".

NA - Not analyzed.

ND - Not detected.

NS - Not sampled.

J - Compound was detected at a concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).

Q - Compound was detected at a concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).

& - LCS recovery was outside of control limits.

H - Holding time exceeded by (n) days

D - The result is from a dilution analysis.

A - Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.

ED - Elevated detection limit due to matrix effects.

MS - Either the matrix spike or matrix spike duplicate was outside of the acceptable control limits. All other supporting QC was within the acceptable control limits.

E - Analyte concentration exceeds calibration range (see Sample Narrative).

* - Duplicate analyses not within control limits.

B(x) - Analyte is detected in the method blank at "x" concentration. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.

N - Spiked sample recovery not within control limits; post-digestion spike recovery accepted.

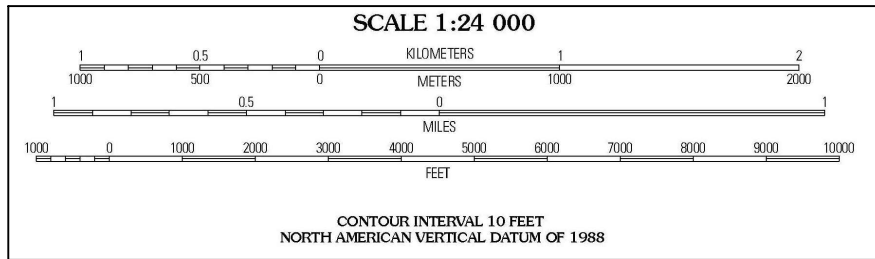
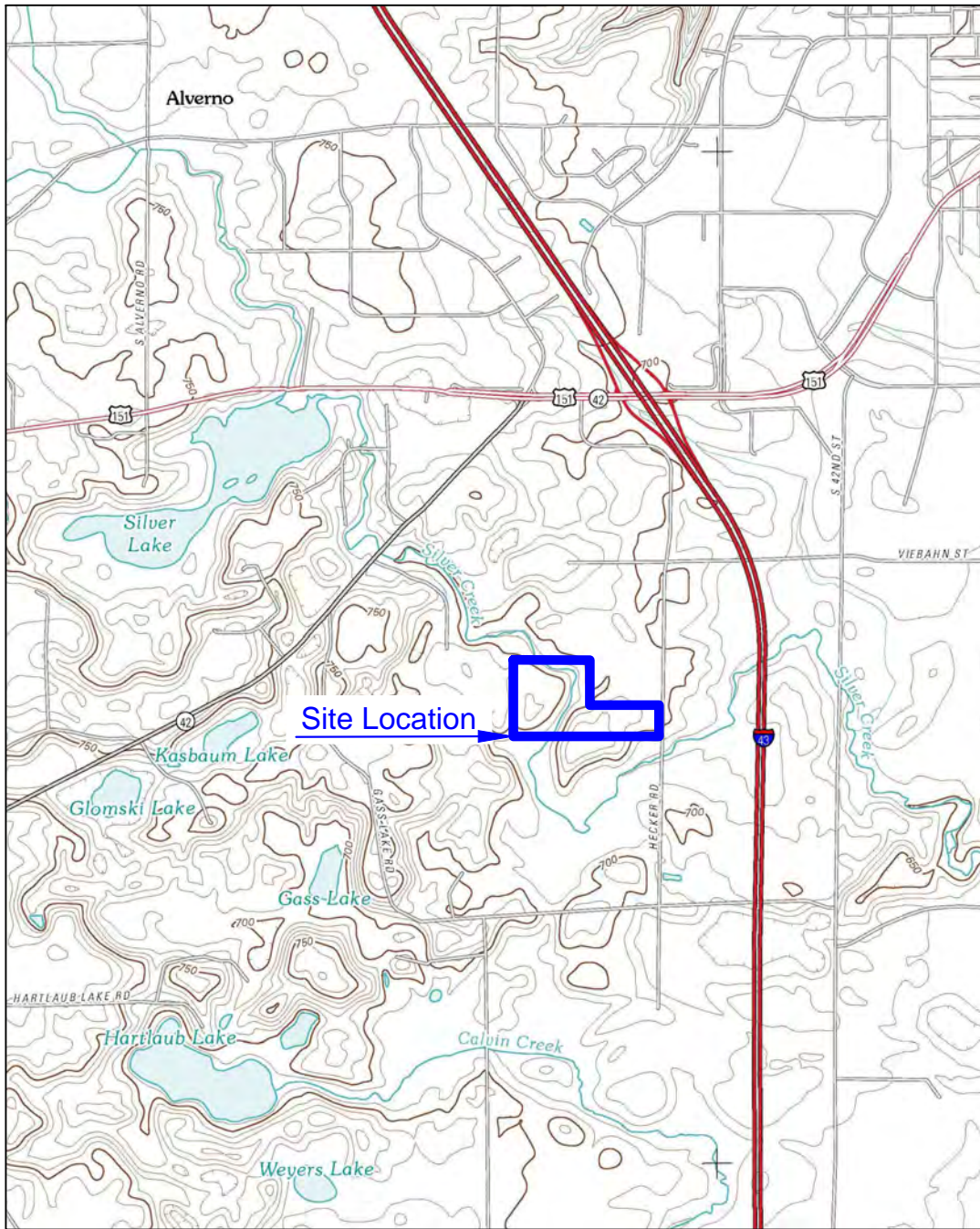
B - Analyte found in method blank.

OC - Elevated reporting limit due to analyte concentration.

Bold indicates a standard exceedance.

Figures:

- Figure 1, Site Location
- Figure 2, Site Layout
- Figure 3, Interpreted Groundwater Flow Water Table
- Figure 4, Interpreted Groundwater Flow 630
- Figure 5, Interpreted Groundwater Flow 600
- Figure 6, Interpreted Groundwater Flow Bedrock
- Figure 7, Cross Section A-A'
- Figure 8, Cross Section B-B'
- Figure 9, Cross Section C-C'
- Figure 10, Cross Section D-D'
- Figure 11, Cross Section E-E'
- Figure 12, Groundwater Data Summary – Water Table Wells
- Figure 13, Groundwater Data Summary – Elevation 630 Piezometers
- Figure 14, Groundwater Data Summary – Elevation 600 Piezometers
- Figure 15, Groundwater Data Summary – Bedrock Piezometers



Topographic Map courtesy of the
United States Geological Survey

[http://store.usgs.gov/b2c_usgs/usgs/maplocator/\(ctype=areaDetails&xcm=3standardpitrex_prd&carearea=%24ROOT&layout=6_1_61_48&uiarea=2\)/.do](http://store.usgs.gov/b2c_usgs/usgs/maplocator/(ctype=areaDetails&xcm=3standardpitrex_prd&carearea=%24ROOT&layout=6_1_61_48&uiarea=2)/.do)

Map Date: 2010

AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

FORMER NEWTON GRAVEL PIT

SITE LOCATION



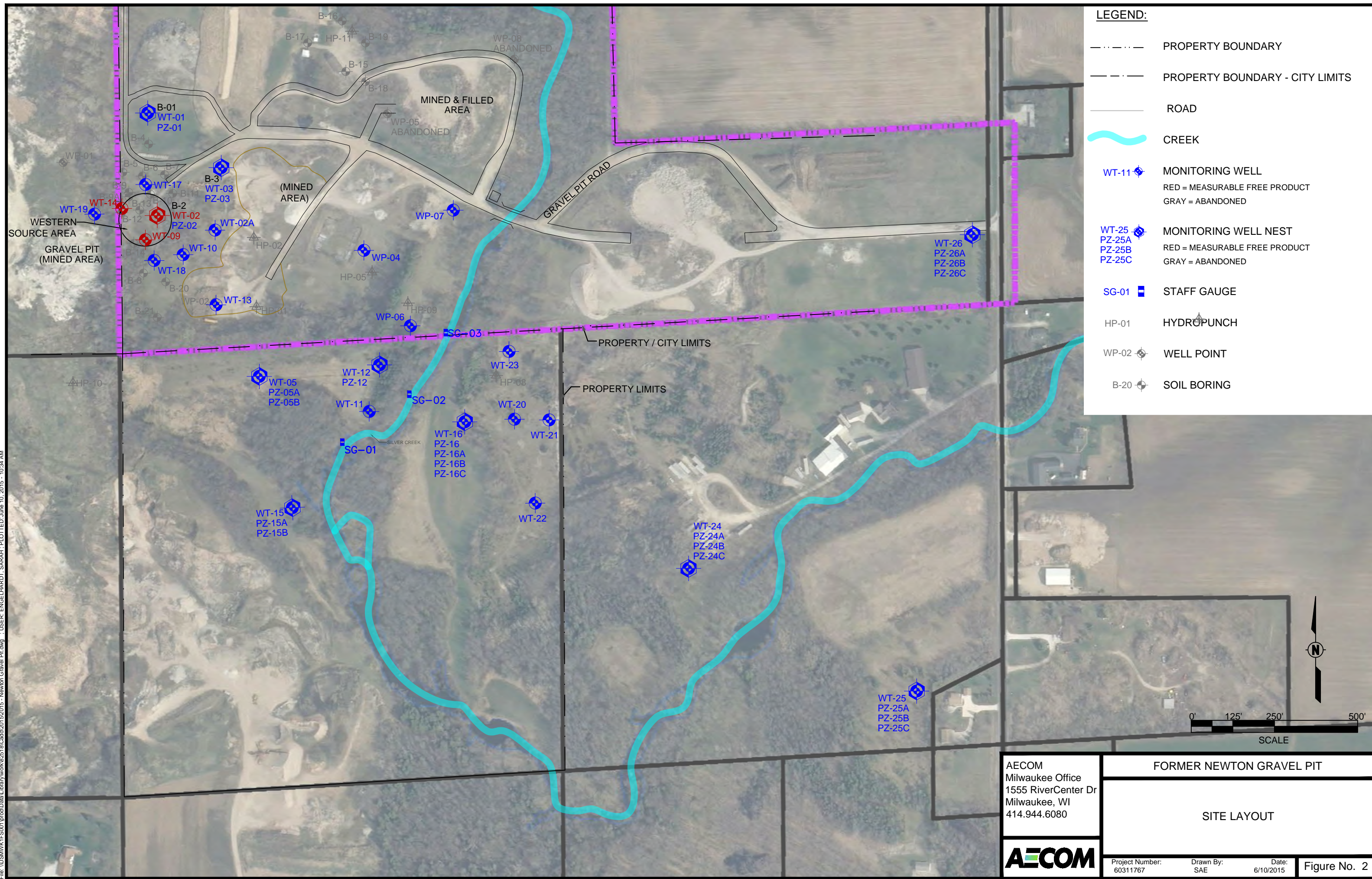
Project Number:
60311767

Drawn By:
SAE

Date:
6/10/2015

Figure No. 1

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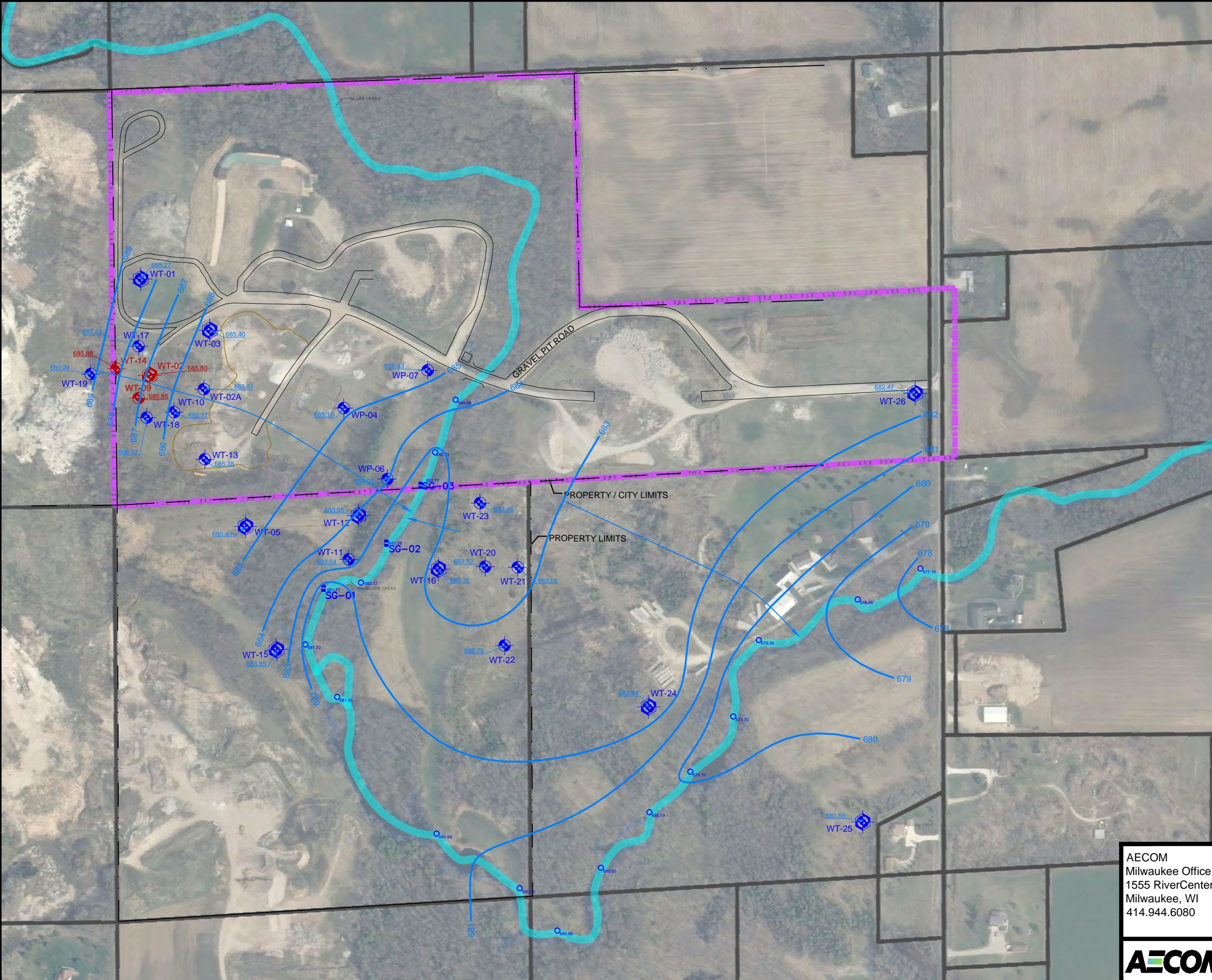
LEGEND:

- PROPERTY BOUNDARY
- PROPERTY BOUNDARY - CITY LIMITS
- ROAD
- ~ CREEK
- WT-11 MONITORING WELL
RED = MEASURABLE FREE PRODUCT
GRAY = ABANDONED
- WT-25 MONITORING WELL NEST
PZ-25A
PZ-25B
PZ-25C
RED = MEASURABLE FREE PRODUCT
GRAY = ABANDONED
- SG-01 STAFF GAUGE
- HP-01 HYDRO-PUNCH
- WP-02 WELL POINT
- B-20 SOIL BORING



AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080	FORMER NEWTON GRAVEL PIT	
	SITE LAYOUT	
Project Number: 60311767	Drawn By: SAE	Date: 6/10/2015
		Figure No. 2

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LEGEND:

- PROPERTY BOUNDARY
- PROPERTY BOUNDARY - CITY LIMITS
- ROAD
- CREEK
- WT-11 MONITORING WELL
RED = MEASURABLE FREE PRODUCT
- WT-03 MONITORING WELL NEST
RED = MEASURABLE FREE PRODUCT
- SG-01 STAFF GAUGE
- WP-02 WELL POINT
- SILVER CREEK - BASE SURVEY POINTS

- NOTES:**
1. SILVER CREEK WAS SURVEYED 10/2013.
 2. GROUNDWATER ELEVATIONS FROM MONITORING WELLS WT-02, WT-09 AND WT-14 WERE NOT USED DUE TO THE PRESENCE OF MEASURABLE PRODUCT.

0' 150' 300' 600'
SCALE

AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080	FORMER NEWTON GRAVEL PIT	
	INTERPRETED GROUNDWATER FLOW WATER TABLE NOVEMBER 2014	
Project Number: 60311767	Drawn By: SAE	Date: 6/10/2015
		Figure No. 3

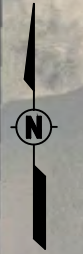
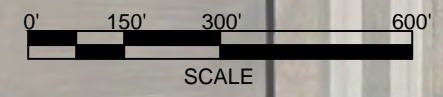
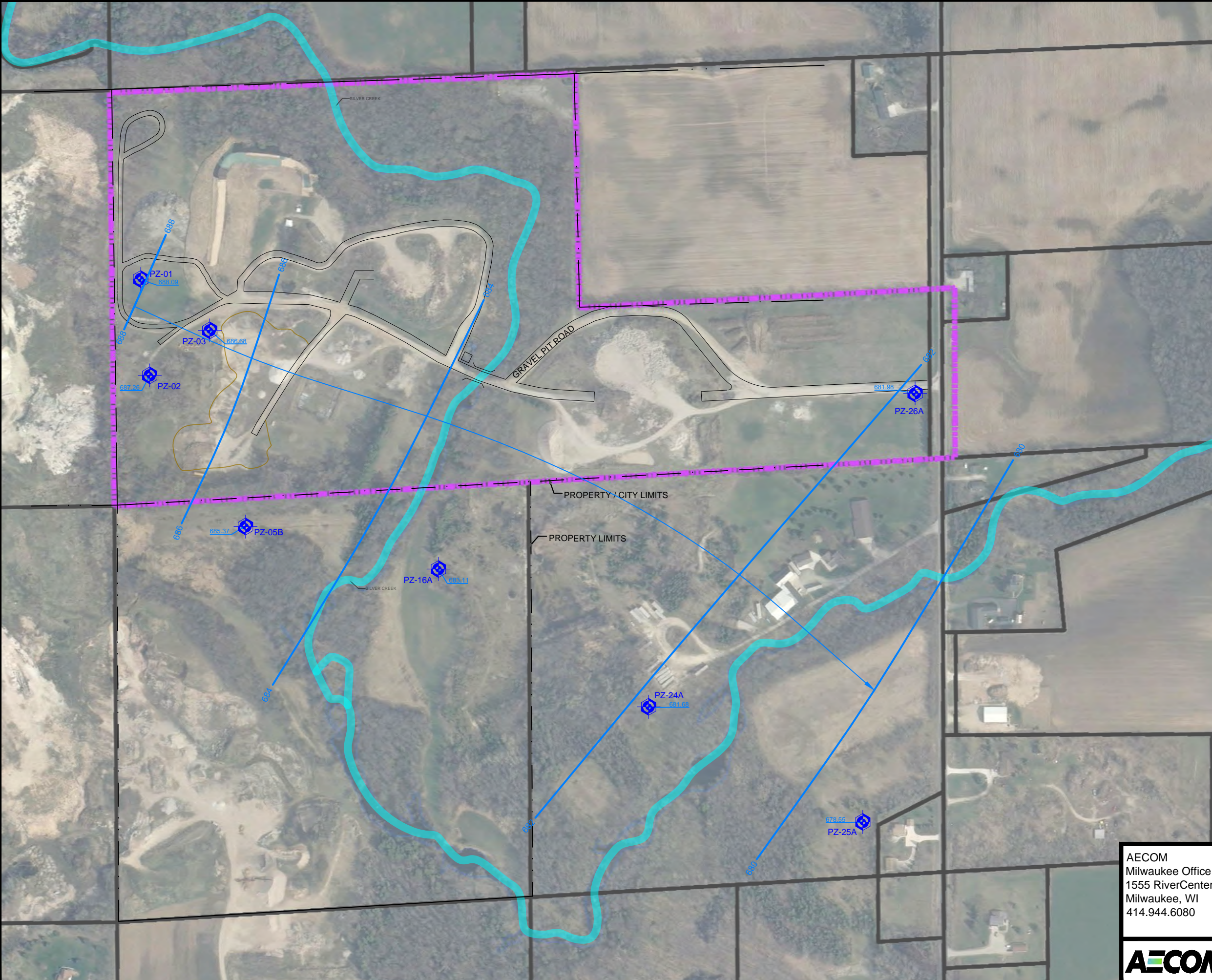
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LEGEND:

- PROPERTY BOUNDARY
- PROPERTY BOUNDARY - CITY LIMITS
- ROAD
- ~ CREEK
- PZ-16A MONITORING WELL NEST

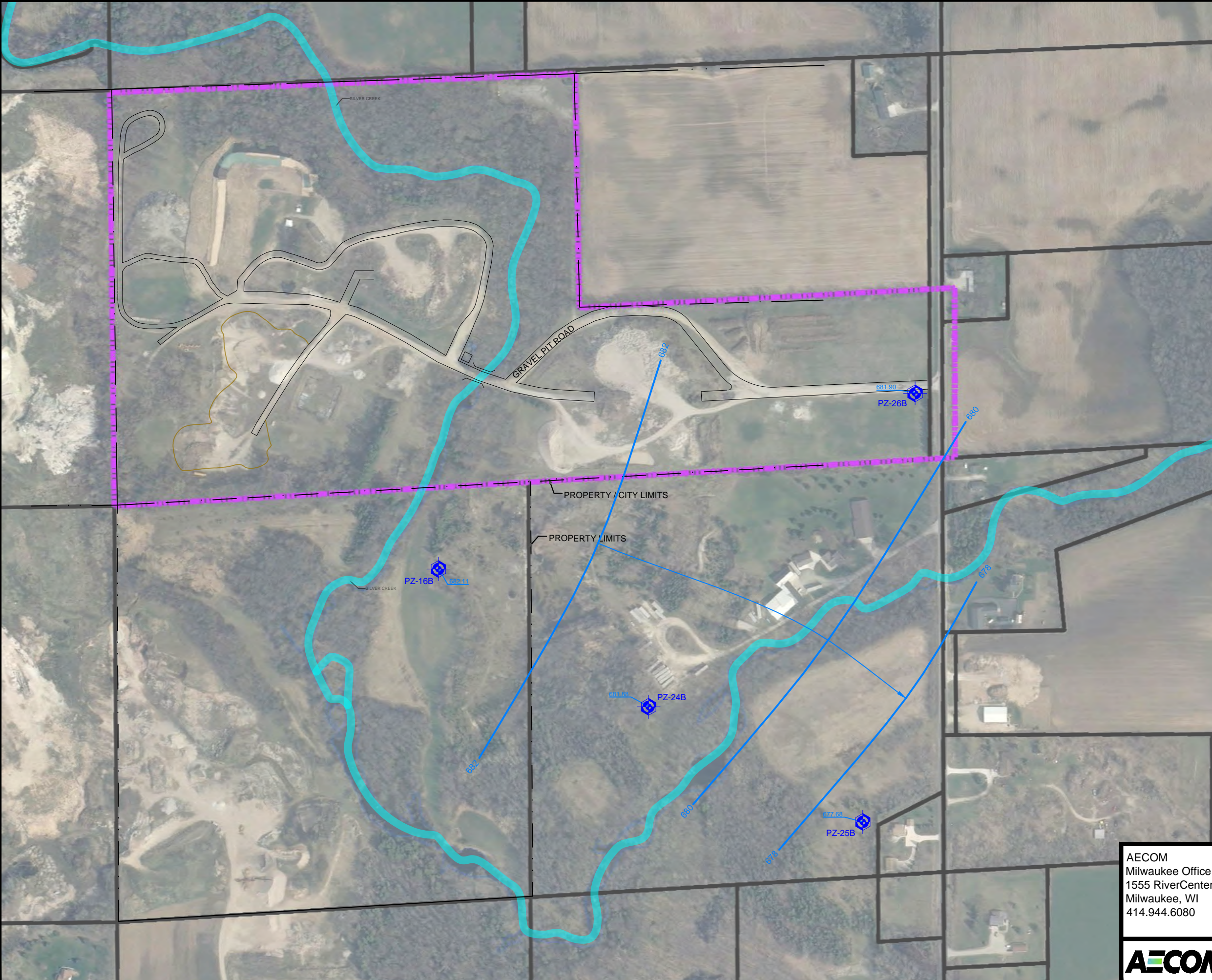
NOTES:

- SILVER CREEK WAS SURVEYED 10/2013



AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080	FORMER NEWTON GRAVEL PIT	
	INTERPRETED GROUNDWATER FLOW PIEZOMETER ELEVATION - 630 NOVEMBER 2014	
Project Number: 60311767	Drawn By: SAE	Date: 6/10/2015
		Figure No. 4

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LEGEND:

- PROPERTY BOUNDARY
- - - - - PROPERTY BOUNDARY - CITY LIMITS
- ROAD
- ~ CREEK
- PZ-16B MONITORING WELL NEST

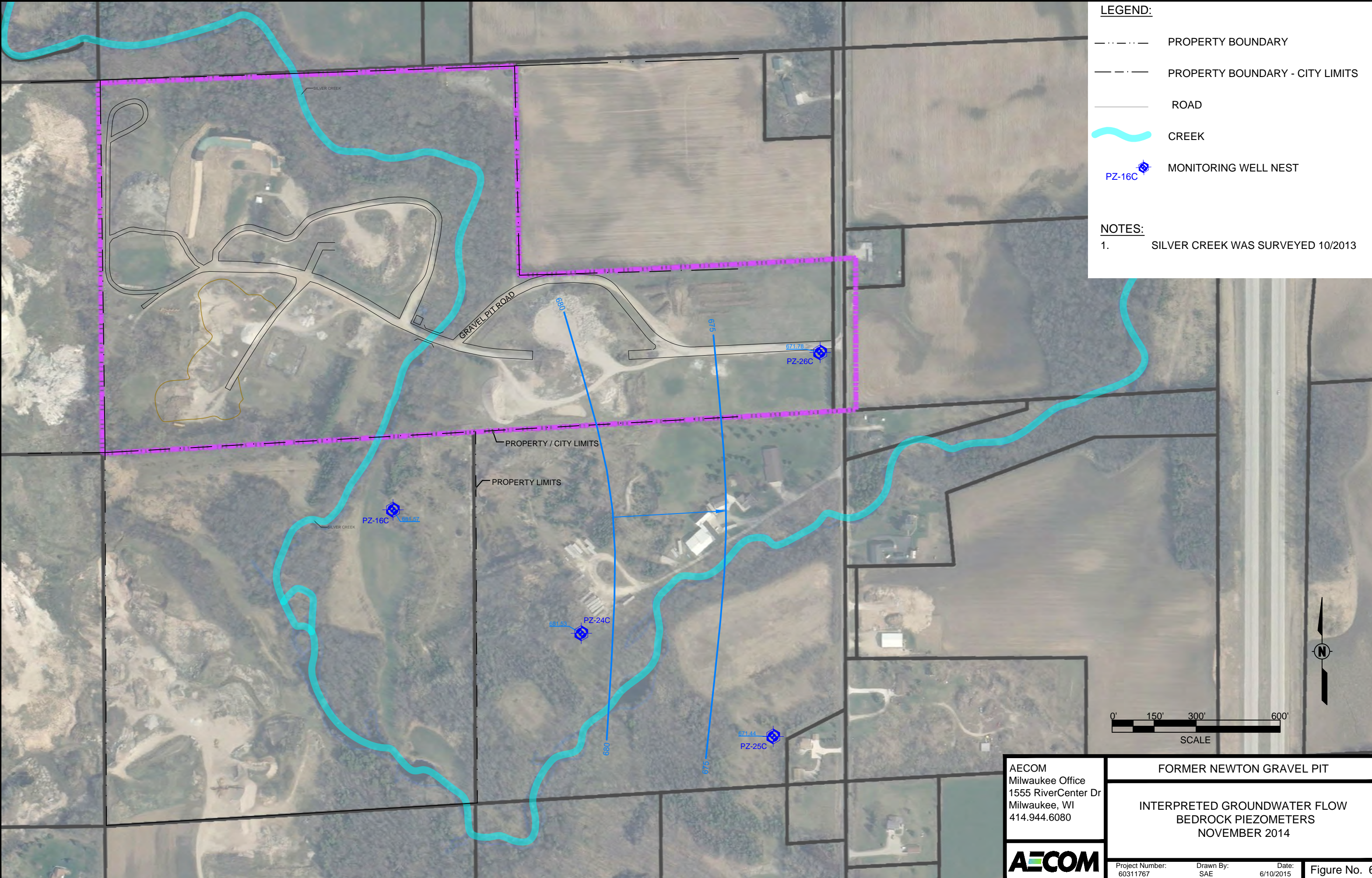
NOTES:

1. SILVER CREEK WAS SURVEYED 10/2013



AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080 	FORMER NEWTON GRAVEL PIT	
	INTERPRETED GROUNDWATER FLOW PIEZOMETER ELEVATION - 600 NOVEMBER 2014	
Project Number: 60311767	Drawn By: SAE	Date: 6/10/2015
		Figure No. 5

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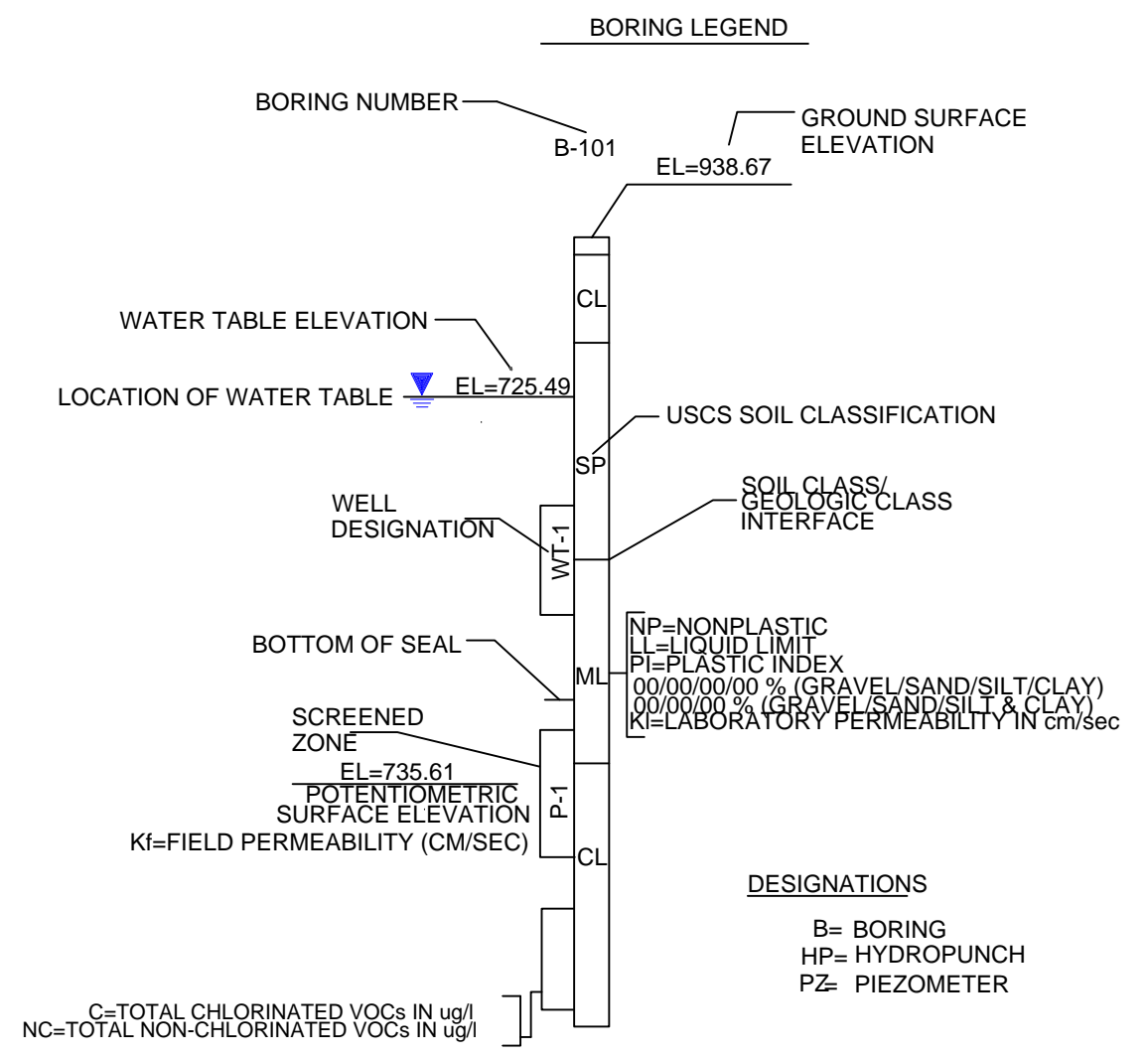
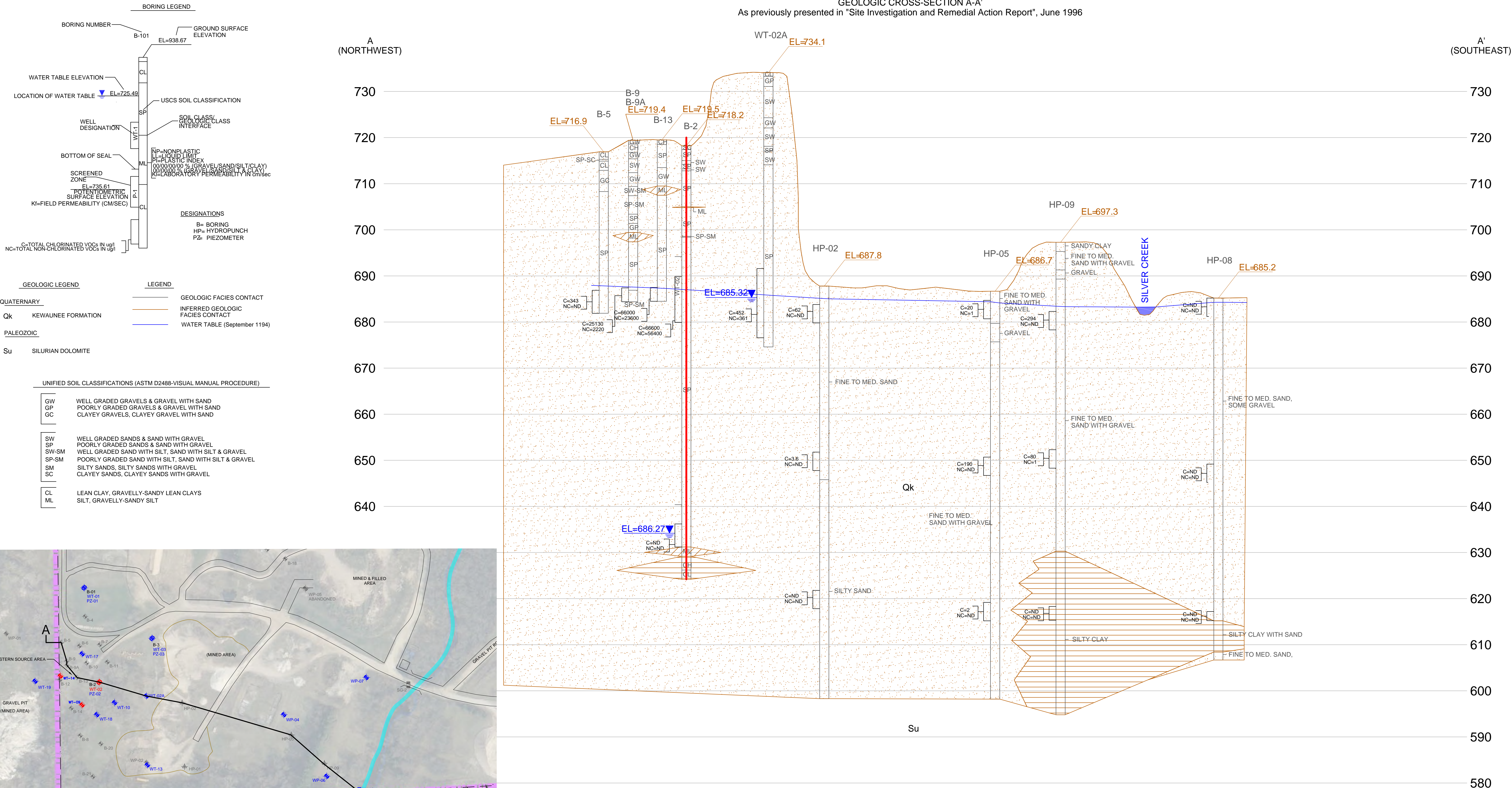
- PROPERTY BOUNDARY
- - - - - PROPERTY BOUNDARY - CITY LIMITS
- ROAD
- ~ CREEK
- PZ-16C MONITORING WELL NEST

NOTES:

1. SILVER CREEK WAS SURVEYED 10/2013

AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080	FORMER NEWTON GRAVEL PIT		
	INTERPRETED GROUNDWATER FLOW BEDROCK PIEZOMETERS NOVEMBER 2014		
Project Number: 60311767	Drawn By: SAE	Date: 6/10/2015	Figure No. 6

GEOLOGIC CROSS-SECTION A-A'
As previously presented in "Site Investigation and Remedial Action Report", June 1996



GEOLOGIC LEGEND

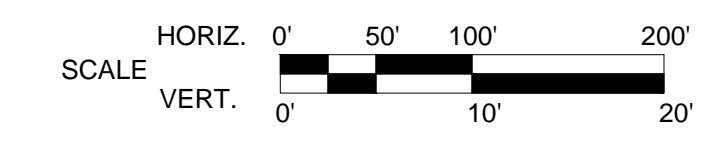
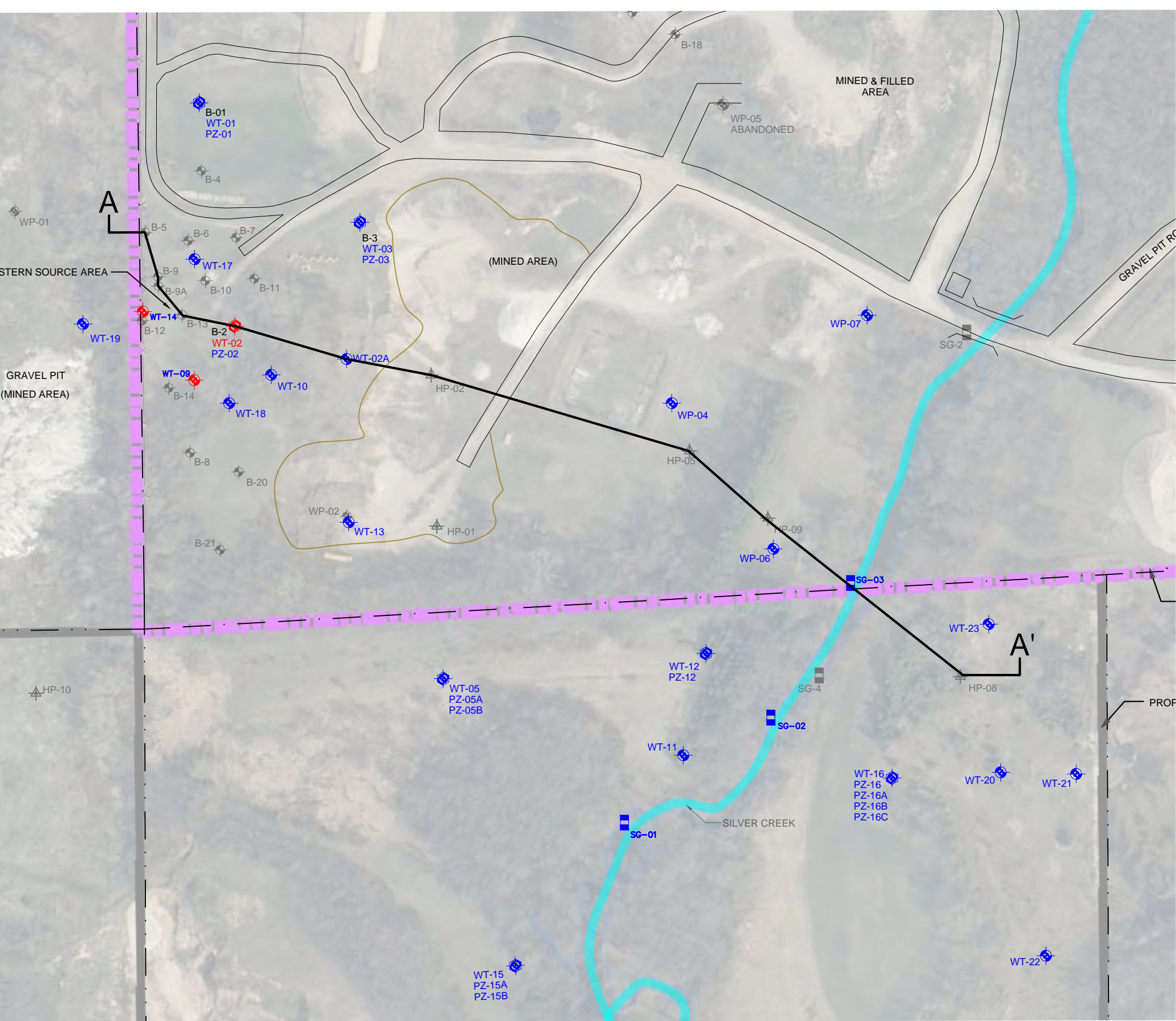
QUATERNARY	Qk	KEWAUNEE FORMATION
PALEOZOIC	Su	SILURIAN DOLOMITE

LEGEND

- GEOLOGIC FACIES CONTACT
- - - INFERRED GEOLOGIC FACIES CONTACT
- WATER TABLE (September 1194)

UNIFIED SOIL CLASSIFICATIONS (ASTM D2488-VISUAL MANUAL PROCEDURE)

GW	WELL GRADED GRAVELS & GRAVEL WITH SAND
GP	POORLY GRADED GRAVELS & GRAVEL WITH SAND
GC	CLAYEY GRAVELS, CLAYEY GRAVEL WITH SAND
SW	WELL GRADED SANDS & SAND WITH GRAVEL
SP	POORLY GRADED SANDS & SAND WITH GRAVEL
SW-SM	WELL GRADED SAND WITH SILT, SAND WITH SILT & GRAVEL
SP-SM	POORLY GRADED SAND WITH SILT, SAND WITH SILT & GRAVEL
SM	SILTY SANDS, SILTY SANDS WITH GRAVEL
SC	CLAYEY SANDS, CLAYEY SANDS WITH GRAVEL
CL	LEAN CLAY, GRAVELLY-SANDY LEAN CLAYS
ML	SILT, GRAVELLY-SANDY SILT

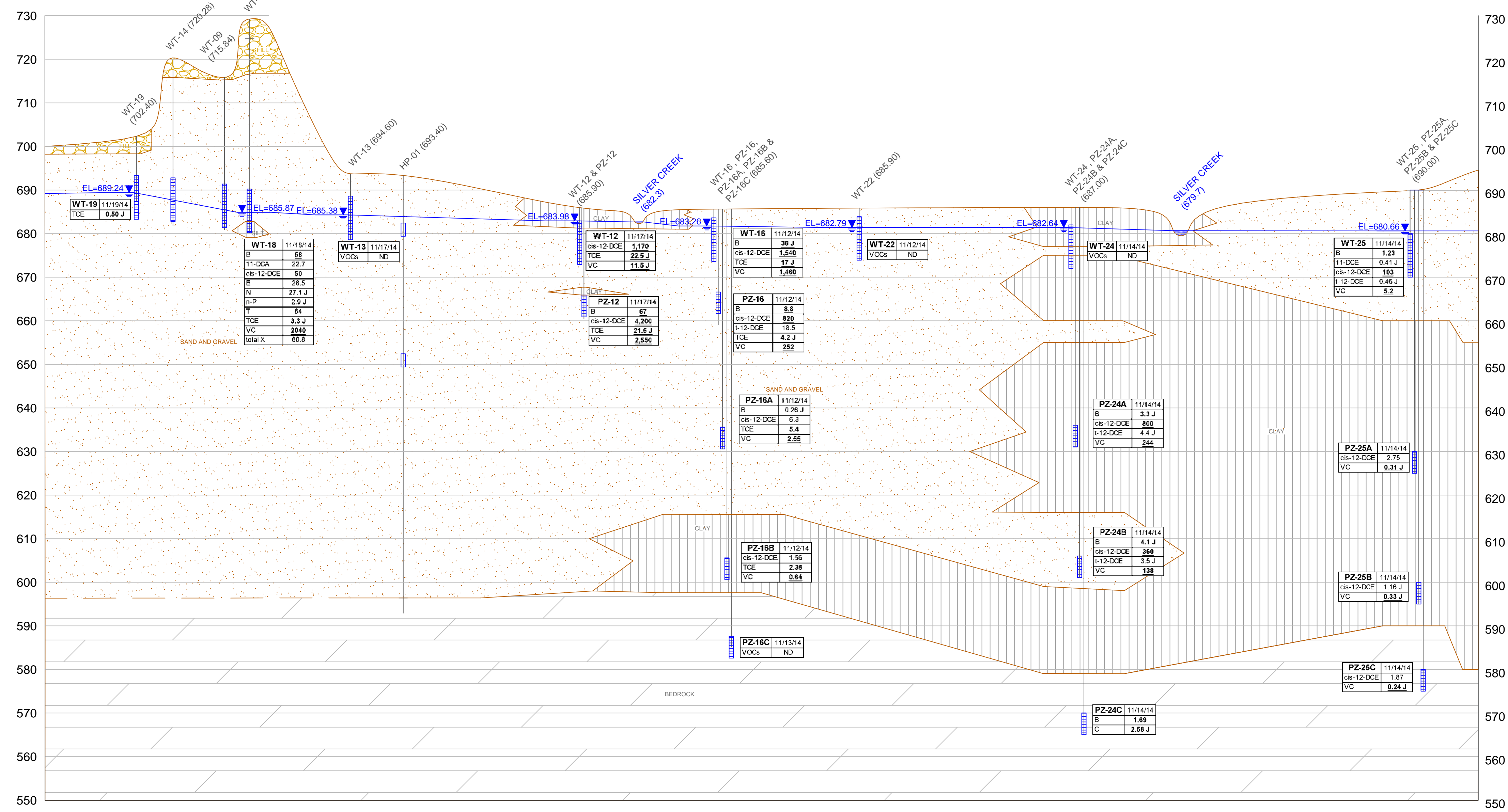


AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080	FORMER NEWTON GRAVEL PIT	
	CROSS SECTION A-A' AS REPORTED IN 1996	
AECOM	Project Number: 60311767	Drawn By: SAE
	Date: 6/10/2015	Figure No. 7

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B
(NORTHWEST)

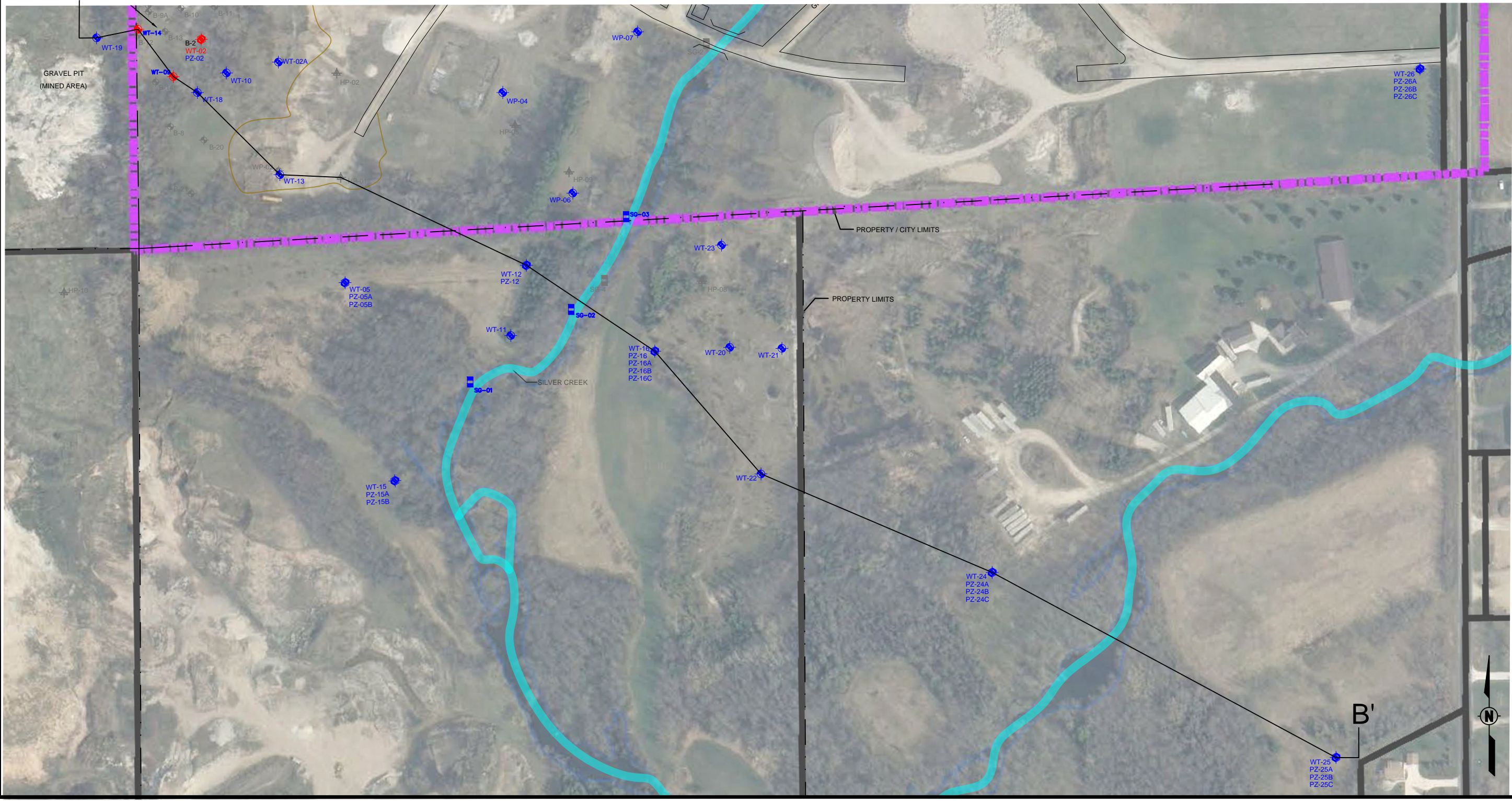
B'
(SOUTHEAST)



B

B'

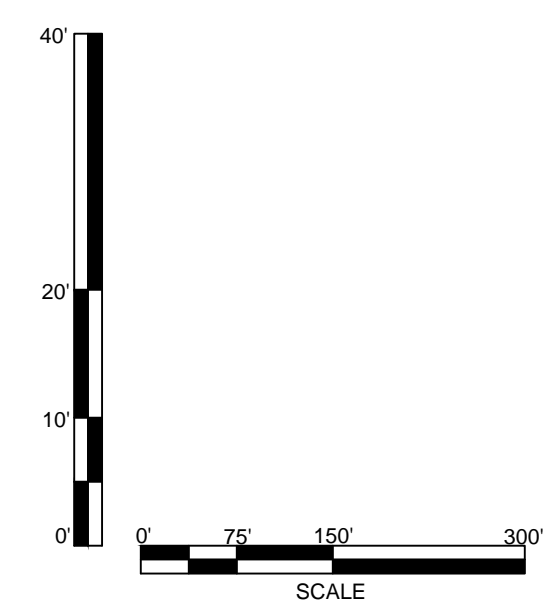
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LEGEND:

- FILL
- SAND AND GRAVEL
- CLAY AND SILT
- BEDROCK (SILURIAN DOLOMITE)
- MONITORING WELL
- SCREEN INTERVAL
- POTABLE WELL
- CASING
- CASING DEPTH
- OPEN BOREHOLE DEPTH

NOTES:
 VOCs = VOLATILE ORGANIC COMPOUNDS
 MEASURED IN MICROGRAMS PER LITER (UG/L)
 B = BENZENE
 C = CHLOROMETHANE
 11-DCA = 1,1-DICHLOROETHANE
 11-DCE = 1,1-DICHLOROETHENE
 cis-12-DCE = CIS-1,2-DICHLOROETHENE
 t-12-DCE = TRANS-1,2-DICHLOROETHENE
 E = ETHYLBENZENE
 N = NAPHTHALENE
 n-P = N-PROPYLBENZENE
 PCE = TETRACHLOROETHENE
 T = TOLUENE
 111-TCA = 1,1,1-TRICHLOROETHANE
 TCE = TRICHLOROETHENE
 VC = VINYL CHLORIDE
 total X = TOTAL XYLENES
 J = COMPOUND WAS DETECTED AT A CONCENTRATION BETWEEN THE LIMIT OF DETECTION AND THE LIMIT OF QUANTITATION
BOLD INDICATES A PREVENTIVE ACTION LIMIT (PAL) EXCEEDANCE
BOLD AND UNDERLINED INDICATES AN ENFORCEMENT STANDARD (ES) EXCEEDANCE



AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080	FORMER NEWTON GRAVEL PIT	
	CROSS SECTION B-B'	
AECOM	Project Number: 60311767	Drawn By: SAE
	Date: 6/12/2015	Figure No. 8

GEOLOGIC CROSS-SECTION C-C'

C
(SOUTHWEST)

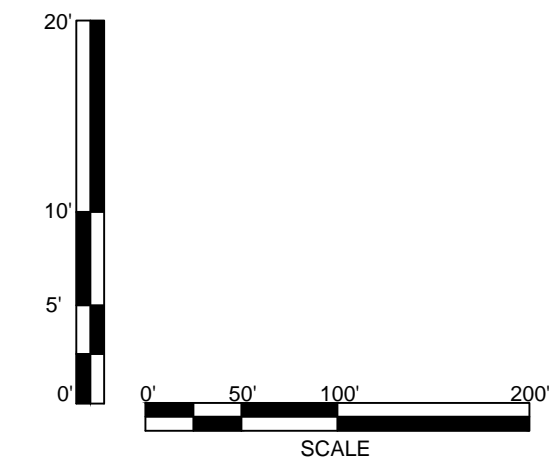
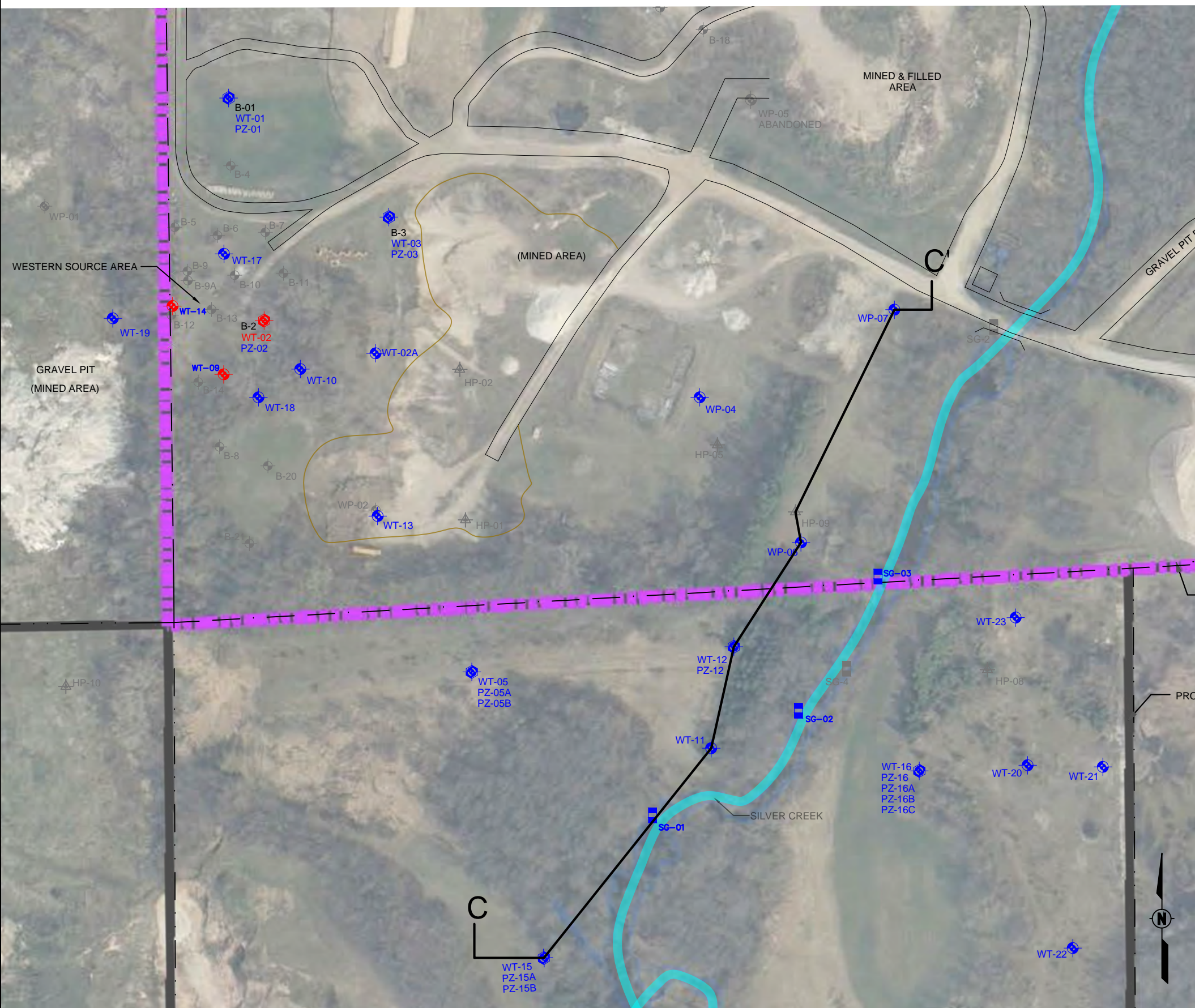
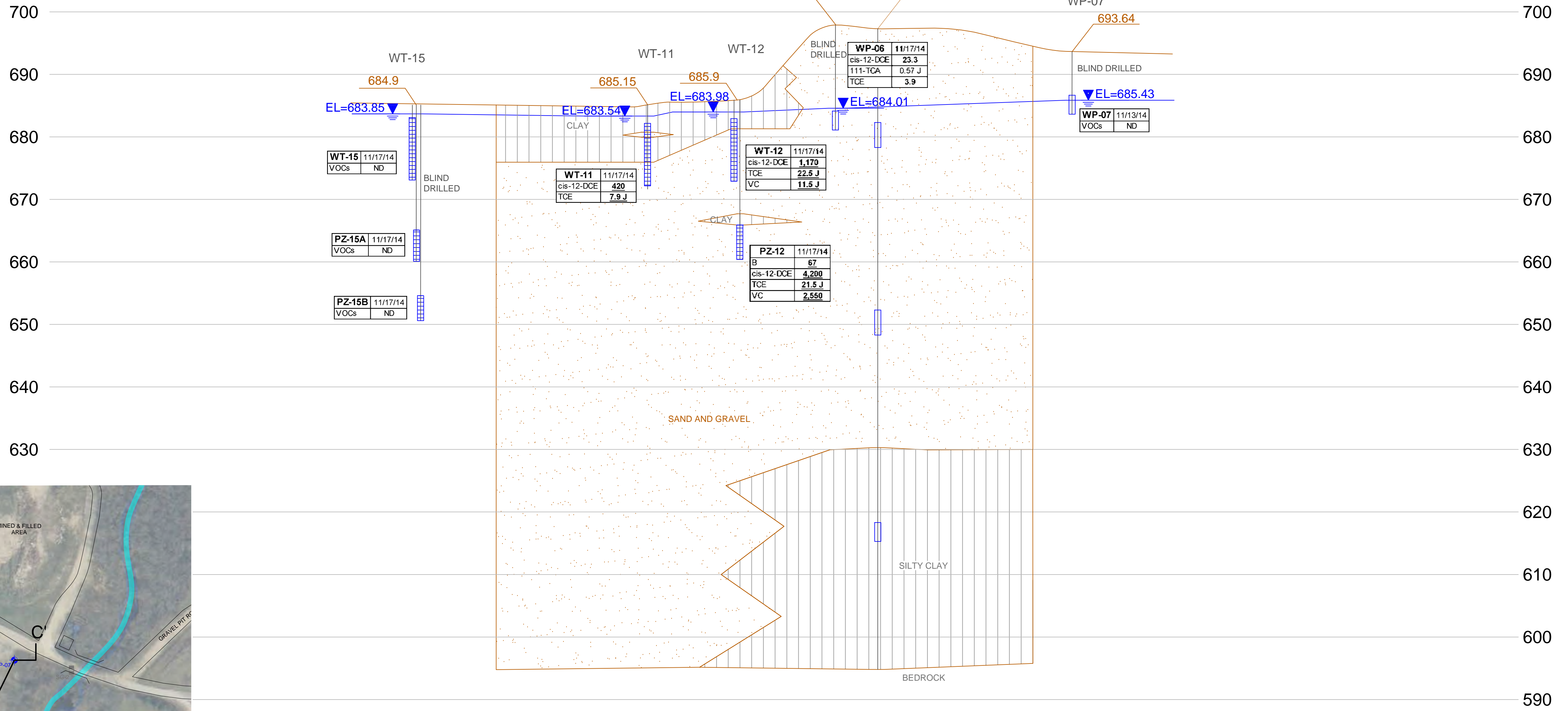
C'
(NORTHEAST)

LEGEND:

- FILL
- SAND AND GRAVEL
- CLAY AND SILT
- BEDROCK (SILURIAN DOLOMITE)
- MONITORING WELL - SCREEN INTERVAL
- POTABLE WELL - CASING
- CASING DEPTH
- OPEN BOREHOLE DEPTH

NOTES:

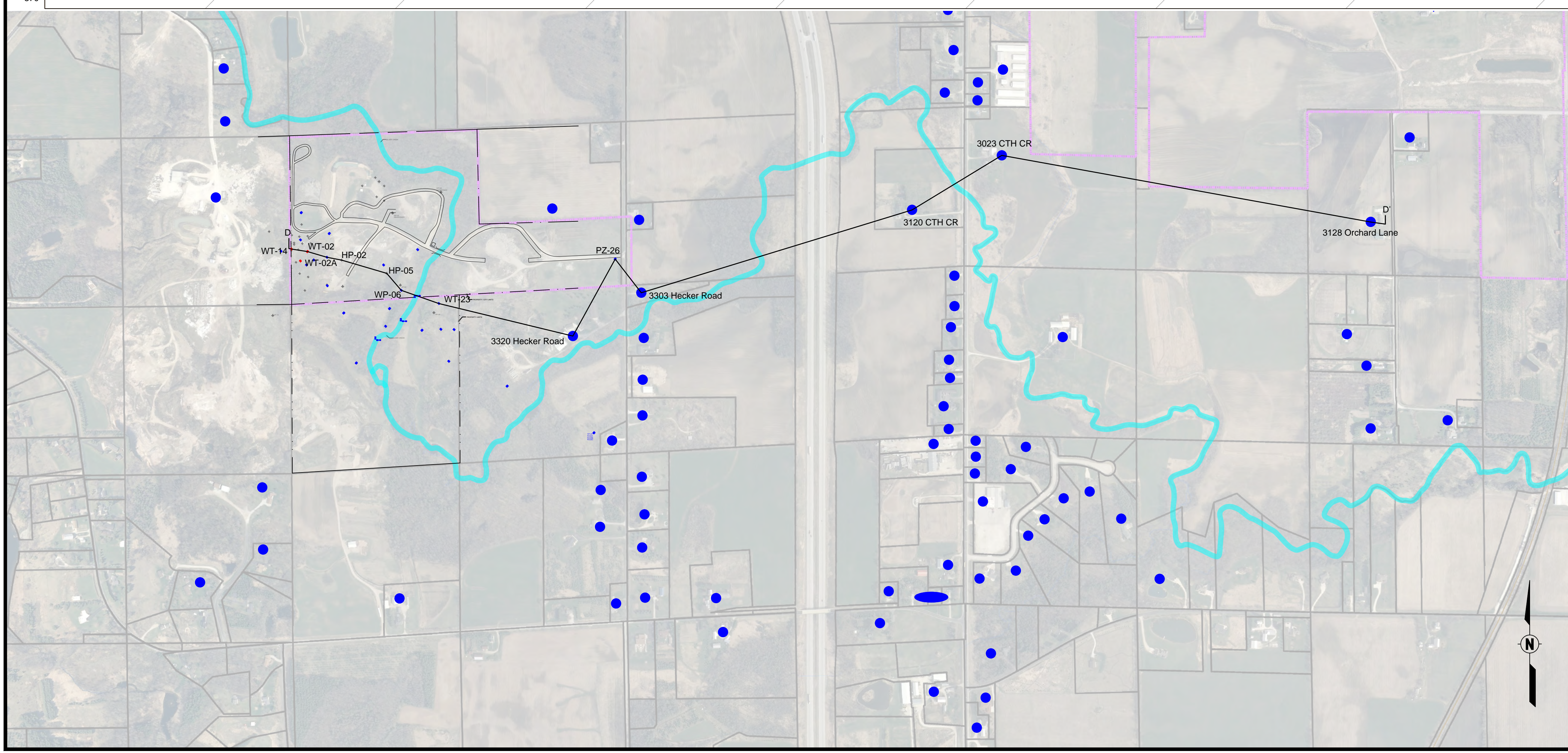
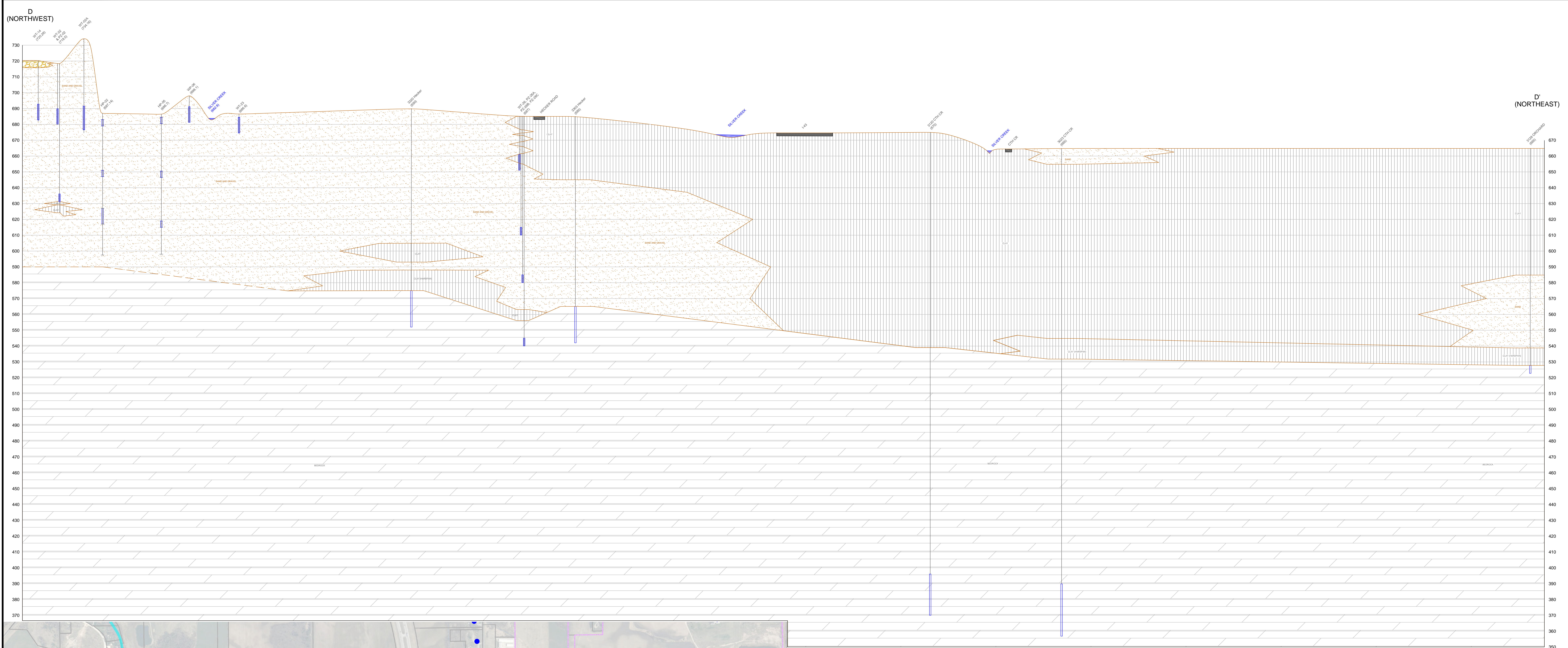
VOCs = VOLATILE ORGANIC COMPOUNDS MEASURED IN MICROGRAMS PER LITER (UG/L)
 cis-12-DCE = CIS-1,2-DICHLOROETHENE
 TCE = TRICHLOROETHENE
 VC = VINYL CHLORIDE
 B = BENZENE
 111-TCA = 1,1,1-TRICHLOROETHANE
 J = COMPOUND WAS DETECTED AT A CONCENTRATION BETWEEN THE LIMIT OF DETECTION AND THE LIMIT OF QUANTITATION
BOLD INDICATES A PREVENTIVE ACTION LIMIT (PAL) EXCEEDANCE
BOLD AND UNDERLINED INDICATES AN ENFORCEMENT STANDARD (ES) EXCEEDANCE



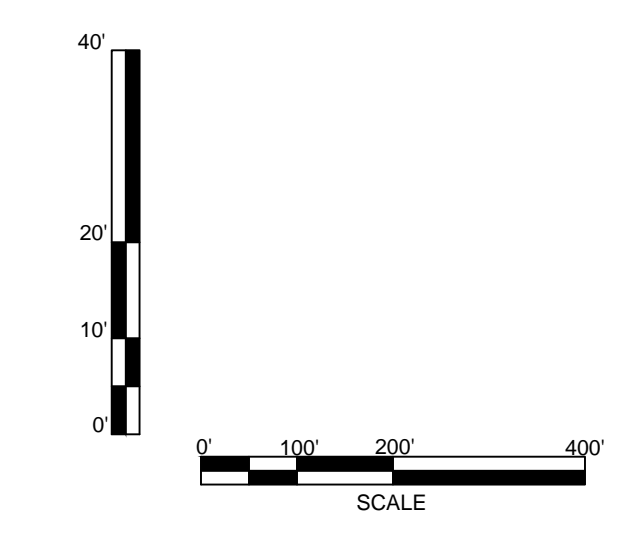
AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080	FORMER NEWTON GRAVEL PIT	
	CROSS SECTION C-C'	
Project Number: 60311767	Drawn By: SAE	Date: 6/11/2015
		Figure No. 9

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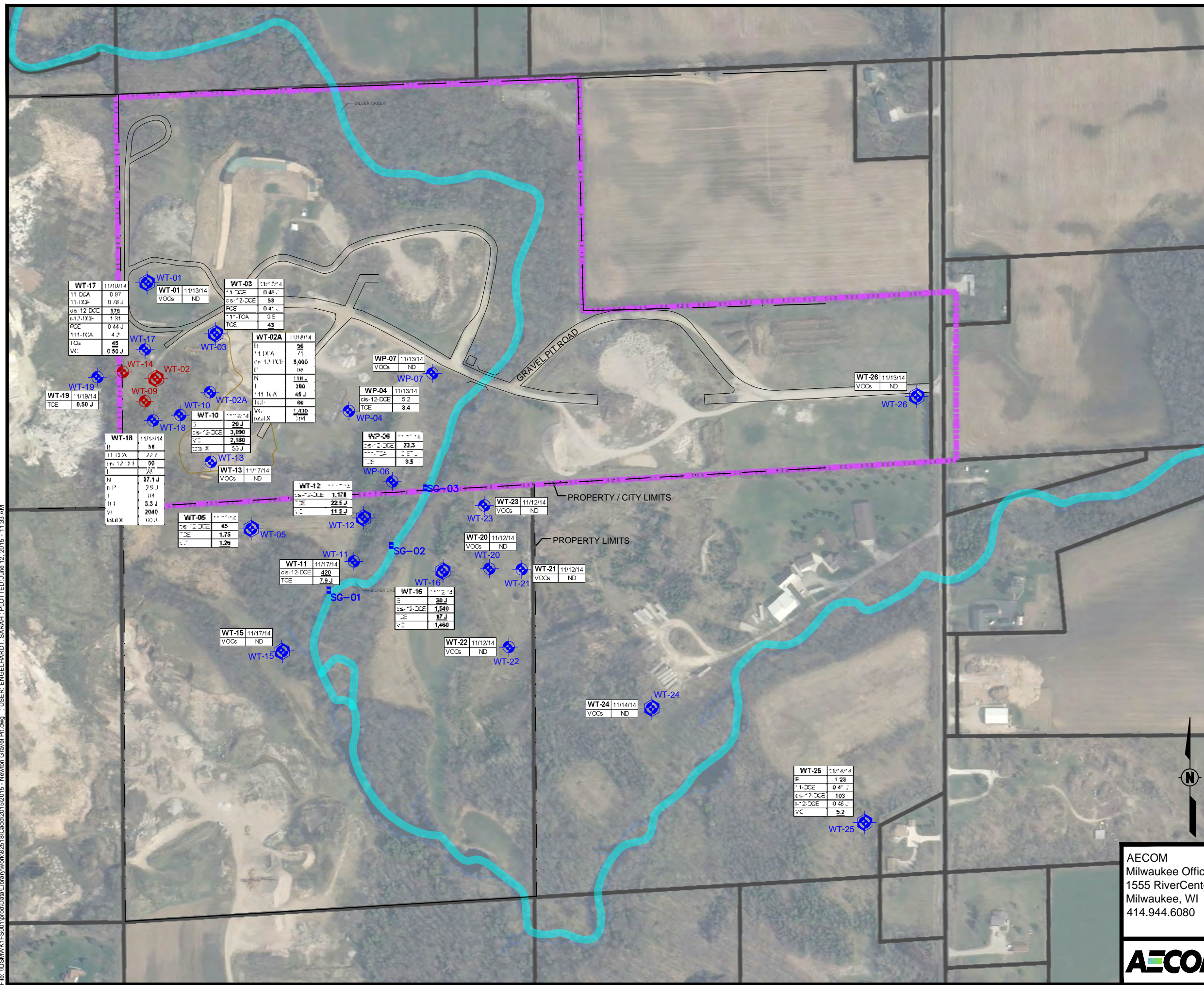


- LEGEND:**
- FILL
 - SAND AND GRAVEL
 - CLAY AND SILT
 - BEDROCK (SILURIAN DOLOMITE)
 - MONITORING WELL
- SCREEN INTERVAL
 - POTABLE WELL
- CASING
- CASING DEPTH
- OPEN BOREHOLE DEPTH



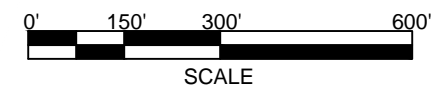
AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080	FORMER NEWTON GRAVEL PIT	
	INTERPRETED CROSS SECTION D-D'	
AECOM Project Number: 60311767	Drawn By: SAE	Date: 6/10/2015
		Figure No. 10

File: \\USM\W\K\FS001\proj\Drawings\Library\work\82518\Cadd\2015\2015 - Newton Gravel Pit.dwg . USER: ENGELHARDT, SARAH . PLOTTED: June 12, 2015 - 11:33 AM



- LEGEND:**
- PROPERTY BOUNDARY
 - PROPERTY BOUNDARY - CITY LIMITS
 - ROAD
 - ~ CREEK
 - WT-11 MONITORING WELL
RED = MEASURABLE FREE PRODUCT (not sampled)
 - WT-03 MONITORING WELL NEST
RED = MEASURABLE FREE PRODUCT
 - SG-01 STAFF GAUGE
 - WP-02 WELL POINT

- NOTES:**
- VOCs = VOLATILE ORGANIC COMPOUNDS
MEASURED IN MICROGRAMS PER LITER (UG/L)
- B = BENZENE
 - C = CHLOROMETHANE
 - 11-DCA = 1,1-DICHLOROETHANE
 - 11-DCE = 1,1-DICHLOROETHENE
 - cis-12-DCE = CIS-1,2-DICHLOROETHENE
 - t-12-DCE = TRANS-1,2-DICHLOROETHENE
 - E = ETHYLBENZENE
 - N = NAPHTHALENE
 - n-P = N-PROPYLBENZENE
 - PCE = TETRACHLOROETHENE
 - T = TOLUENE
 - 111-TCA = 1,1,1-TRICHLOROETHANE
 - TCE = TRICHLOROETHENE
 - VC = VINYL CHLORIDE
 - total X = TOTAL XYLENES
 - J = COMPOUND WAS DETECTED AT A CONCENTRATION BETWEEN THE LIMIT OF DETECTION AND THE LIMIT OF QUANTITATION
- BOLD** INDICATES A PREVENTIVE ACTION LIMIT (PAL) EXCEEDANCE
- BOLD AND UNDERLINED** INDICATES AN ENFORCEMENT STANDARD (ES) EXCEEDANCE



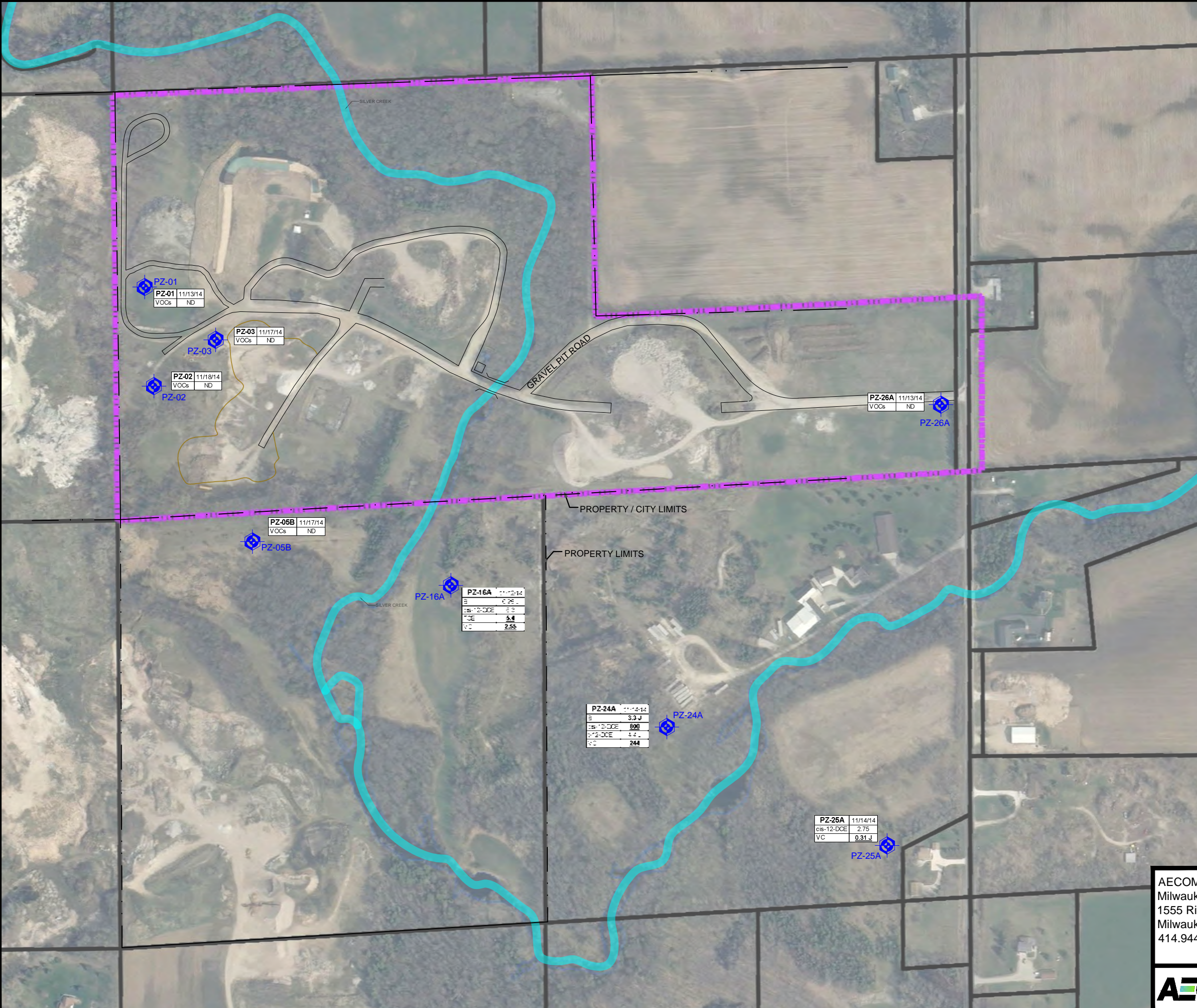
AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

FORMER NEWTON GRAVEL PIT

GROUNDWATER DATA SUMMARY
WATER TABLE WELLS
NOVEMBER 2014



File: \\USM\K1\FS001\proj\Drawings\Library\work\2518\Cadd\2015\2015 - Newton Gravel Pit.dwg - USER: ENGELHARDT, SARAH - PLOTTED: June 12, 2015 - 11:54 AM



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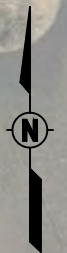
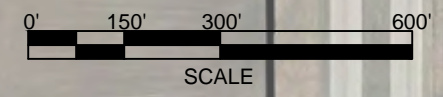
- PROPERTY BOUNDARY
- PROPERTY BOUNDARY - CITY LIMITS
- ROAD
- CREEK
- MONITORING WELL NEST

NOTES:

VOCs = VOLATILE ORGANIC COMPOUNDS
MEASURED IN MICROGRAMS PER LITER (UG/L)

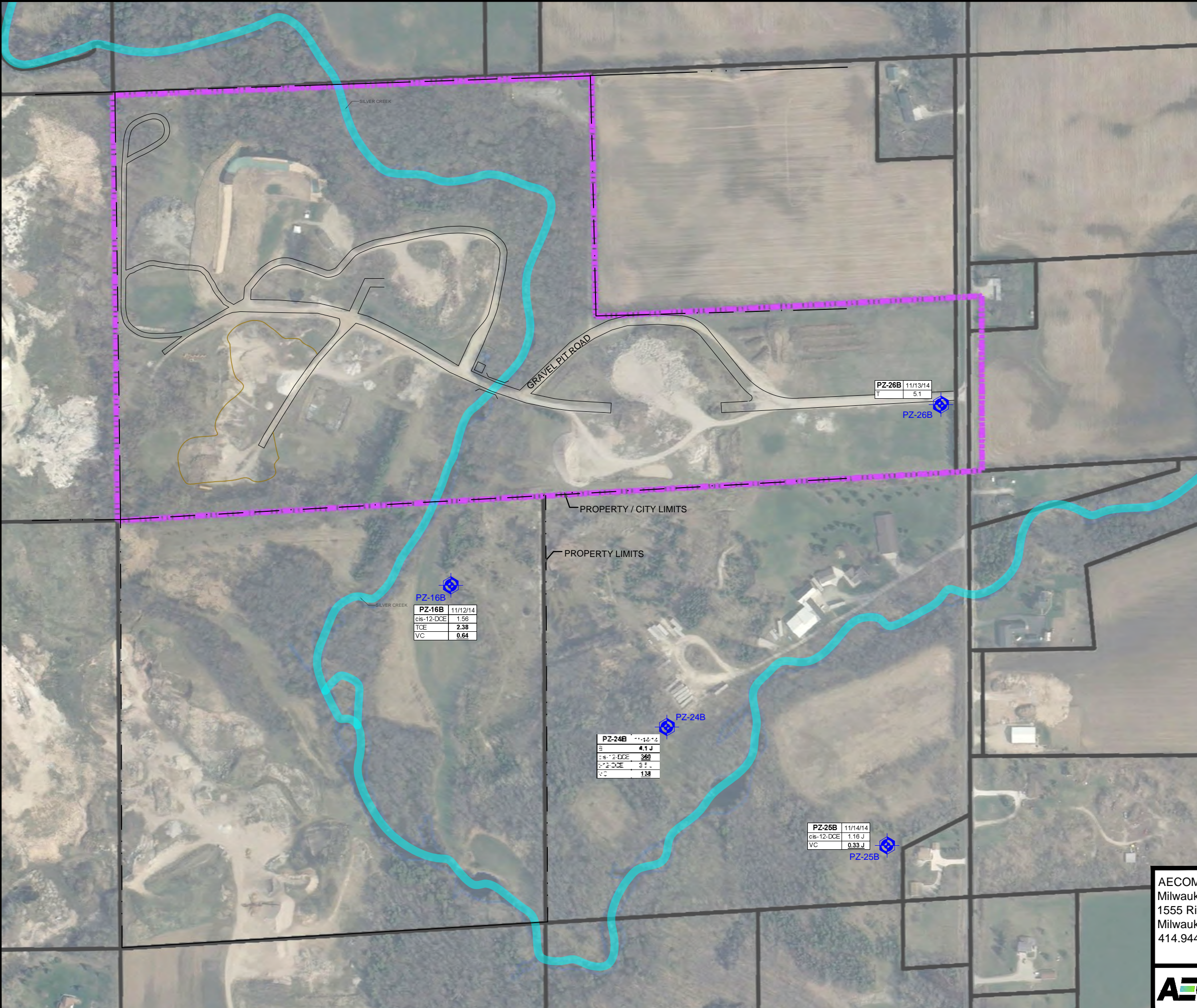
B = BENZENE
cis-12-DCE = CIS-1,2-DICHLOROETHENE
t-12-DCE = TRANS-1,2-DICHLOROETHENE
TCE = TRICHLOROETHENE
VC = VINYL CHLORIDE
J = COMPOUND WAS DETECTED AT A CONCENTRATION BETWEEN THE LIMIT OF DETECTION AND THE LIMIT OF QUANTITATION

BOLD INDICATES A PREVENTIVE ACTION LIMIT (PAL) EXCEEDANCE
BOLD AND UNDERLINED INDICATES AN ENFORCEMENT STANDARD (ES) EXCEEDANCE



AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080	FORMER NEWTON GRAVEL PIT	
	GROUNDWATER DATA SUMMARY ELEVATION 630 PIEZOMETERS NOVEMBER 2014	
Project Number: 60311767	Drawn By: SAE	Date: 6/12/2015
		Figure No. 13

File: \\USM\MK\F5001\prod\Data\Library\work\82518\Cadd\2015\2015 - Newton Gravel Pit.dwg . USER: ENGELHARDT, SARAH . PLOTTED: June 12, 2015 - 11:30 AM



LEGEND:

- PROPERTY BOUNDARY
- PROPERTY BOUNDARY - CITY LIMITS
- ROAD
- ~ CREEK
- PZ-16A MONITORING WELL NEST

NOTES:

VOCs = VOLATILE ORGANIC COMPOUNDS
 MEASURED IN MICROGRAMS PER LITER (UG/L)

B = BENZENE
 cis-12-DCE = CIS-1,2-DICHLOROETHENE
 t-12-DCE = TRANS-1,2-DICHLOROETHENE
 TCE = TRICHLOROETHENE
 VC = VINYL CHLORIDE
 J = COMPOUND WAS DETECTED AT A CONCENTRATION BETWEEN THE LIMIT OF DETECTION AND THE LIMIT OF QUANTITATION

BOLD INDICATES A PREVENTIVE ACTION LIMIT (PAL) EXCEEDANCE
BOLD AND UNDERLINED INDICATES AN ENFORCEMENT STANDARD (ES) EXCEEDANCE

PZ-16B 11/12/14

cis-12-DCE	1.56
TCE	2.38
VC	0.64

PZ-24B 11/12/14

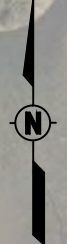
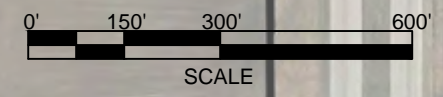
B	4.1 J
cis-12-DCE	360
t-12-DCE	65
VC	138

PZ-25B 11/14/14

cis-12-DCE	1.16 J
VC	0.33 J

PZ-26B 11/13/14

T	5.1
---	-----

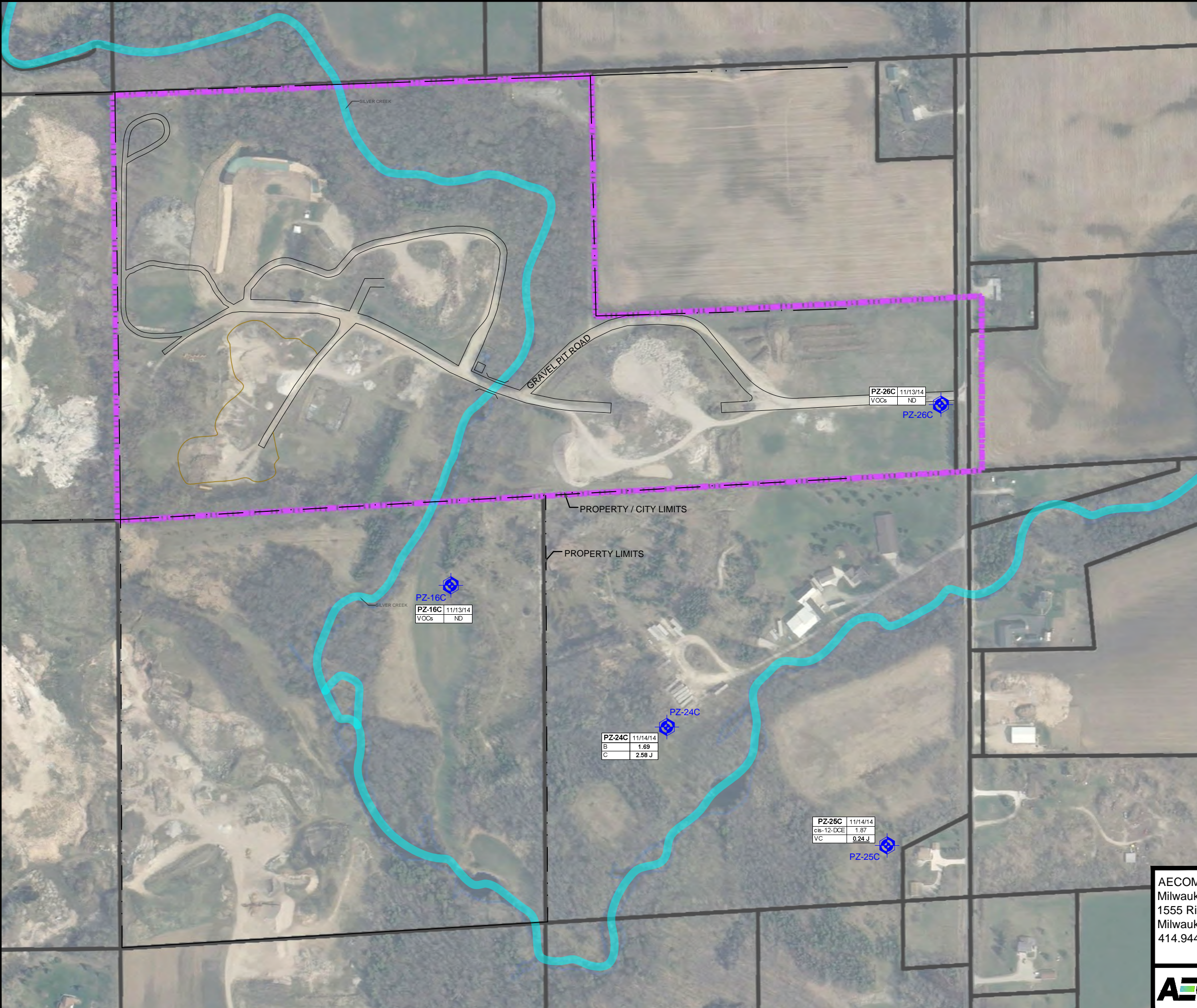


AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080	FORMER NEWTON GRAVEL PIT	
	GROUNDWATER DATA SUMMARY ELEVATION 600 PIEZOMETERS NOVEMBER 2014	
Project Number: 60311767	Drawn By: SAE	Date: 6/12/2015

Figure No. 14



File: \\USM\W\K\FS001\proj\Drawings\Library\work\82518\Cadd\2015\2015 - Newton Gravel Pit.dwg . USER: ENGELHARDT, SARAH . PLOTTED: June 12, 2015 - 10:47 AM



LEGEND:

- PROPERTY BOUNDARY
- PROPERTY BOUNDARY - CITY LIMITS
- ROAD
- ~ CREEK
- PZ-16A MONITORING WELL NEST

NOTES:

VOCs = VOLATILE ORGANIC COMPOUNDS
 MEASURED IN MICROGRAMS PER LITER
 (UG/L)

B = BENZENE
 C = CHLOROMETHANE
 cis-12-DCE = CIS-1,2-DICHLOROETHENE
 TCE = TRICHLOROETHENE
 VC = VINYL CHLORIDE
 J = COMPOUND WAS DETECTED AT A CONCENTRATION BETWEEN
 THE LIMIT OF DETECTION AND THE LIMIT OF QUANTITATION

BOLD INDICATES A PREVENTIVE ACTION LIMIT (PAL) EXCEEDANCE
BOLD AND UNDERLINED INDICATES AN ENFORCEMENT STANDARD
 (ES) EXCEEDANCE

PZ-16C 11/13/14

VOCs	ND
------	----

PZ-24C 11/14/14

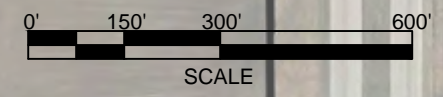
B	1.69
C	2.58 J

PZ-25C 11/14/14

cis-12-DCE	1.87
VC	<u>0.24 J</u>

PZ-26C 11/13/14

VOCs	ND
------	----



AECOM
 Milwaukee Office
 1555 RiverCenter Dr
 Milwaukee, WI
 414.944.6080



FORMER NEWTON GRAVEL PIT

GROUNDWATER DATA SUMMARY
 BEDROCK PIEZOMETERS
 NOVEMBER 2014

Attachment A:

Soil Boring Logs, Monitoring Well Construction Forms, and
Monitoring Well Development Forms

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit			License/Permit/Monitoring Number			Boring Number PZ-16C			
Boring Drilled By: Name of crew chief (first, last) and Firm Fist Name: Last Name:			Date Drilling Started 10 31 2014		Date Drilling Completed 10 31 2014		Drilling Method Rotosonic		
Firm:			MM/ DD/ YY		MM/ DD/ YY				
WI Unique Well No.		DNR Well ID No.		Well Name		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
								Borehole Diameter 5 3/4 inches	
Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			State Plane			Local Grid Location (if applicable)			
1/4 of 1/4 of Section T N, R E S/C/N			Lat			Feet N			
			Long			Feet S			
Facility ID			County Manitowoc		County Code 36		Civil Town/City/or Village Manitowoc		

Sample	Number and Type	Length Att. & Recovered	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
	1	5/4		1.0	Loose brown (10YR 5/3) medium to fine sand, moist, non plastic, non cohesive, few large rounded gravel, well graded	SW										
				2.0	Loose reddish brown (10YR) medium to fine sand, moist, non plastic, non cohesive, well graded.	SW										
				4.0	Loose gray (10YR 5/1) medium to fine sand, wet, non plastic non cohesive, poorly graded											
				6.0												
				10.0	Loose gray (10YR 5/1) medium to coarse sand, wet, non plastic, non cohesive, well graded	SW										
				12.0												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **AECOM**
11425 W. Lake Park Drive, Milwaukee, WI 53224

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
3	9/10		12.0	Loose gray (10 YR 5/1) fine sand, wet, non plastic, non cohesive, little silt, poorly graded	SP-5M									
			13.0											
4	10/8		14.0	Loose gray (10 YR 5/1) med to fine sand, wet, non plastic, non cohesive, poorly graded	SP									
			15.0											
			16.0											
			17.0											
			18.0											
			19.0											
			20.0											
			21.0											
			22.0											
			23.0											
24.0	Loose gray (10 YR 5/1) medium to fine sand, wet, non plastic, non cohesive, poorly graded	SP												
25.0	Loose gray (10 YR 5/1) coarse to medium sand, wet, non plastic, non cohesive, little large rounded gravel, well graded.	SW												
26.0	Loose gray (10 YR 5/1) medium sand, wet, non plastic, non cohesive little small to large rounded gravel	SW												
27.0														
28.0	Loose gray (10 YR 5/1) med to fine sand, wet, non plastic, non cohesive, little small to large rounded gravel	SW												
29.0														
30.0	Loose gray (10 YR 5/1) med to fine sand, wet, non plastic, non cohesive,	SW												
31.0														
32.0														

Sample		Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments								
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200									
			96.0																			
			97.0																			
			98.0																			
			99.0																			
			100.0																			
			101.0																			
			102.0																			
			103.0																			
			104.0																			
			105.0																			
			106.0																			
			107.0																			
			108.0																			
			109.0																			
			110.0																			
			111.0																			
			112.0																			
			113.0																			
			114.0																			
			115.0																			
			116.0																			

FOB @ 103'
Set Well screened
98'-103'

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit			License/Permit/Monitoring Number			Boring Number PZ-24 C		
Boring Drilled By: Name of crew chief (first, last) and Firm Fist Name: Jason Last Name:			Date Drilling Started 10 27 2014 MM/ DD/ YY		Date Drilling Completed 10 28 2014 MM/ DD/ YY		Drilling Method Rotosonic	
Firm: Cascade			Final Static Water Level		Surface Elevation		Borehole Diameter	
WI Unique Well No.			DNR Well ID No.		Well Name		Feet MSL	
Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			State Plane		Lat		Local Grid Location (if applicable)	
1/4 of _____ of Section _____ T _____ N, R _____ E/W			Long		Feet _____ N _____ S		Feet _____ E _____ W	
Facility ID			County Manitowoc		County Code 36		Civil Town/City/or Village Manitowoc	

Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1.0	Topsoil, dark yellowish brown (10YR 3/6) gravelly clay, moist nonplastic, cohesive, little sand	CL			1.1						
			2.0	Firm dark yellowish brown (4/4) sandy clay w/ gravel, moist, non plastic, noncohesive, some med. sand, little regular gravel	CL			0.5						
			3.0					0.6						
			4.0					1.3						
			5.0	Firm dark reddish brown (2.5YR (2.5/2) clay w/ few large gravel, few med. to coarse sand, med. plasticity, cohesive, moist	CL			1.0						
			6.0	Becomes wet @ 5'										
			7.0											
			8.0											
			9.0											
			10.0	Loose gray (10YR 5/1) gravelly sand with clay, wet, non plastic, non cohesive	GP-G									
			11.0											
			12.0	Soft dark grayish brown (10YR 5/2) sandy clay, wet, medium plasticity, cohesive few med-fine sand, few gravel	CL									

1
Rotosonic

2

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **AECOM**
11425 W. Lake Park Drive, Milwaukee, WI 53224

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02-24C

Sample		Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
8	15' / 13'		75.0	loose, no gray (10% R 5%) med to fine sand, wet, non plastic, non cohesive, poorly graded.	SP									
			76.0											
			77.0	loose gray (10% R 5%) med to coarse sand, wet, non plastic, non cohesive, well graded	SW									
			78.0	loose gray (10% R 5%) fine med sand, wet, non plastic, non cohesive, poorly graded	SP									
9	3' / 10'		79.0	loose gray (10% R 5%) fine sand, wet, non plastic, non cohesive, poorly graded	SP									
			80.0											
			81.0	large rounded gravel										
			82.0	stiff gray (10% R 5%) lean clay, wet, medium plasticity, cohesive little rounded coarse sand	CL									
10	10' / 13'		83.0	loose gray (10% R 5%) med to coarse sub ang rounded sand, wet, non plastic, non cohesive, well graded	SW									
			84.0											
			85.0											
			86.0											
			87.0	stiff gray (10% R 5%) lean clay moist, high plasticity, cohesive, little coarse rounded sand little large rounded limestone gravel	CL									
			88.0											
			89.0											
			90.0											
			91.0											
			92.0											
			93.0											
			94.0											
			95.0											

@87' drilled noted clay

Sample		Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments					
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200						
			96.0																
			97.0	Dolomite Cobble															
			98.0																
			99.0																
			100.0	Loose gray (10YR 5/1) medium to fine sand, wet, nonplastic, poorly graded	SR														
			101.0																
			102.0	Stiff reddish brown (5YR 5/3) loam clay, moist, high plasticity, cohesive, little coarse rounded sand trace large rounded gravel	CL														
			103.0	Silt lens (gray 10YR 5/1)	ML														
			104.0	Becomes gray (10YR 5/1)															
			105.0		CL														
			106.0																
			107.0	Silt lens w/ limestone gravel, rounded to sub rounded	ML														
			108.0	light olive gray (5Y 6/1) dolomite, crushed powder, large gravel chunks															
			109.0																
			110.0																
			111.0																
			112.0																
			113.0	No Recovery															
			114.0																
			115.0																
			116.0																

11 12/15

12 1/16

Total recover
do: ~~11~~
100-104
contains
coarse sand
graded to
large gravel,
returned to
be slough

Number and Type	Sample		Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments						
	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200							
			116.0																	
			117.0																	
			118.0																	
			119.0																	
			120.0																	
			121.0																	
			122.0																	
			123.0																	
			124.0																	
			125.0																	
			126.0																	
			127.0																	
			128.0																	
			129.0																	
			130.0																	
			131.0																	
			132.0																	
			133.0																	
			134.0																	
			135.0																	
			136.0																	

12

7/6'

EOB @ 121' set well screen 116'-121'

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit			License/Permit/Monitoring Number			Boring Number PZ-25C			
Boring Drilled By: Name of crew chief (first, last) and Firm Fist Name: Last Name:			Date Drilling Started 10 29 2014		Date Drilling Completed 2014		Drilling Method Rotasonic		
Firm:			MM/ DD/ YY		MM/ DD/ YY				
WI Unique Well No.		DNR Well ID No.		Well Name		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
								Borehole Diameter inches	
Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			State Plane			Local Grid Location (if applicable)			
1/4 of 1/4 of Section T N, R E/W			Lat			Long			
Facility ID			County Manitowoc		County Code 36		Civil Town/City/or Village Manitowoc		

Sample	Number and Type	Length Att. & Recovered	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	Rotasonic	5 1.4		1.0	loose brown (10YR 5/3) med to fine sand, dry, non plastic, noncohesive few angular to rounded small to large gravel well graded				0.2						
				2.0					0.5						
				3.0					0.1						
				4.0					0.3						
				5.0	+ little silt										
				6.0					0.5						
				7.0					0.6						
				8.0					0.1						
				9.0					0.0						
				10.0											
				11.0	loose brown (10YR 5/3) med to fine sand, moist, non plastic non cohesive, little silt.										
				12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: _____ Firm: **AECOM**
11425 W. Lake Park Drive, Milwaukee, WI 53224

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Number and Type	Sample		Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
3	6' 5"		12.0	Loose brown (10YR 5/8) sandy gravel, moist to wet, non plastic, non cohesive, fine well graded med - fine sand	SP									
			13.0	Becomes gray (10YR 5/1)										
			15.0											
4	6' 10"		16.0											
			17.0											
			20.0											
5	10' 3"		24.0	Loose gray (10YR 5/1) poorly graded med/fine sand, wet, non plastic, non cohesive, little large rounded gravel	SP									
			27.0	Loose gray (10YR 5/1) sandy gravel, wet, non plastic, non cohesive, few fine to coarse angular to subrounded sand, well graded	GP									
			30.0	Hard gray (10YR 5/1) lean clay, moist, medium plasticity, cohesive, few coarse to fine rounded to sub rounded sand, little large rounded gravel, little silt	CL									

Driller noted hearing sands @ 30' and cobble stuck in rod

Sample		Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments		
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200			
13	5/10		75.0	As above	CL											
			76.0													
			77.0													
			78.0													
			79.0													
14	9/5		80.0	Fine sand & silt	SP											
			81.0													
			82.0													
			83.0													
			84.0													
15	5/7		85.0	CL												
			86.0													
			87.0													
			88.0													
			89.0													
16	5/5		90.0	CL												
			91.0													
			92.0											Sand/gravel	SW	
			93.0											CL		
			94.0											CL		
	95.0	Fine sand	SP													

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit		License/Permit/Monitoring Number		Boring Number PZ-25C	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Mike Last Name: Firm: Cascade		Date Drilling Started 11/01/2014 MM/DD/YY	Date Drilling Completed 11/02/2014 MM/DD/YY	Drilling Method Rotosonic	
WI Unique Well No.	DNR Well ID No.	Well Name PZ-25C	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter inches
Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location (if applicable)	
1/4 of 1/4 of Section T N, R E/W		Lat ° ' "		Feet S Feet E W	
Facility ID	County Manitowoc	County Code 36	Civil Town/City/or Village Manitowoc		

Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1RS	1.8 5.0	NA	1.0	TOPSOIL Firm; brown (10YR 5/3); TOPSOIL Moist; cohesive; medium plasticity; trace sand and gravel; root zone	CL			0.0						
			2.0	DARK Firm; reddish brown (5YR 2.5YR 3/4); LEAN CL(CI); Moist; medium plasticity; cohesive; massive; trace subrounded fine gravel; trace medium to coarse sand.	CL		1.2		1.9					
2RS	3.9 5.0	NA	4.0	mottled MOU				0.0						
			6.0				6.8							
			7.0	Firm; reddish brown (5YR 5/4); SILT (ML); moist; low plasticity; cohesive; massive; trace sand and gravel.	ML			0.0						
3RS	5.0 5.0	NA	8.0					0.2						
			9.0	Loose; reddish brown (5YR 5/4); FINE SAND (SP); moist; non plastic; non cohesive; massive; trace medium sand.	SP		8.5		0.0					
			10.0											
			11.0	Firm; reddish brown (5YR 5/4) LEAN CL(CI); moist; medium plasticity; cohesive; massive; MOU trace coarse sand and gravel.	CL									
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Signature]* Firm: **AECOM**
11425 W. Lake Park Drive, Milwaukee, WI 53224

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Sample			Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
Number and Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			12.0	- Loose; Light Reddish Brown (5YR 6/3); POORLY GRADED FINE SAND (SP); moist; non-plastic; non cohesive; thinly bedded; FINE SAND	12.2										
			13.0												
			14.0	- SILT lens from 14.1 to 14.4 feet.											
			15.0	Well GRADED SAND (SA); medium to coarse sand with gravel; moist; non plastic; non cohesive; massive; little sub rounded gravel; fluvial.	14.6			0.0		moist					
4RS	5.0 / 5.0	NA	16.0		16.0										
			17.0	Firm; Brown (10YR 5/3) LEAN CLAY (CL); moist; medium plasticity; cohesive; massive; trace sub rounded coarse sand and gravel; diamicton.	CL										
			18.0												
			19.0		16.2										
			20.0	Loose Light reddish brown (5YR 6/3) Well GRADED SAND WITH GRAVEL (SW); Fine to medium sand; moist; non plastic; non cohesive; massive; little sub rounded gravel;	19.4			0.0							
5RS	9.8 / 10.0	NA	21.0	- Becomes wet at 21.0 feet.	SW			0.2		21.0 wet					inferred perched w/c of color
			22.0												
			23.0		23.7										
			24.0	Hard; Brown (10YR 5/3) LEAN CLAY (CL); moist; medium plasticity; cohesive; massive; trace sub rounded sand and gravel; diamicton.	CL			0.3		moist					
			25.0					0.0							
			26.0		26.3										
			27.0	Hard; dark grey (10YR 4/1); LEAN CLAY (CL); moist; low plasticity; cohesive; massive; trace sub rounded sand; diamicton.	CL					moist					
			28.0		28.4										
			29.0	Hard; Light red grey (10YR 7/1) SILT (ML); moist; non plastic; non cohesive; massive; alluvium.	ML										
			30.0		30.0										
6RS	8.6 / 10.0	NA	31.0	Loose; Brown (10YR 5/3); Well GRADED SAND WITH GRAVEL (SW); (wet); non-plastic; non cohesive; massive; little sub rounded gravel;	SW			0.0		wet					
			32.0	medium to coarse sand.				0.1							

Sample			Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
		NA	33.0											
			34.0				0.3		wet					
			35.0		SW									
			36.0											
			37.0											
			38.0											
			39.0											
			40.0											
1/2 NA start	FRS	8.1 / 10.0	40.0				0.1		wet					
		NA	41.0		SW		0.2							
			42.0											
			43.0											
			44.0				0.0							
			45.0											
			46.0											
			47.0											
			47.2	Fine sand seam from 47.2 to 47.5 feet.										
			48.0											
			49.0											
			50.0											
			50.0				0.1							
			51.0		SW		0.2							
			52.0											
			53.0											

1/2 NA start
FRS
8.1 / 10.0
NA

Fine sand seam from 47.2 to 47.5 feet.

BRS
9.9 / 10.0
NA

Sample		Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			54.0		SW			0.3						
			55.0											
			56.0											
			57.0		SP									
			57.0	Loose; grey (10YR 5/1) POORLY GRADED FINE SAND (SP); moist; non-plastic; non cohesive; massive; trace subrounded cobbles	SP									
			58.0											
			58.2											
			59.0		SW									
			59.0	Loose; grey (10YR 5/1) WELL GRADED SAND WITH GRAVEL (SW); moist; non plastic; non cohesive; massive; fine to coarse sand; little subround gravel; trace cobbles; fluvial.	SW									
9 RS	6.8 / 10.0	NA	60.0					0.0						
			61.0		SW									
			62.0					0.2						
			63.0											
			64.0											
			65.0											
			66.0											
			67.0											
			68.0											
			69.0											
			70.0											
			70.0		SP									
10 RS	9.6 / 10.0	NA	70.0	Loose; Grey (10YR 5/1); POORLY GRADED SAND (SP); Medium sand; wet; non plastic; non cohesive; massive; trace subrounded gravel fluvial.	SP			0.0						
			71.0											
			72.0											
			73.0											
			74.0											

moist

wet

wet

Sample		Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments							
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P-200								
			96.0																		
			97.0																		
			98.0																		
			99.0																		
			100.0																		
13RS	8.4 / 10.0	NA	100.0 - 101.8	Loose; light grey (10YR 7/1) fine POORLY GRADED SAND (SP); Fine sand interbedded with laminated clay; moist; wet; non plastic; non cohesive; thinly bedded;	SP			0.1													
			102.0 - 103.0	Loose grey (10YR 5/1) POORLY GRADED SAND (SP); medium sand; wet; non plastic; non cohesive; massive	SP			0.2													
			104.0																		
			105.0																		
			106.0																		
			107.0																		
			107.0 - 109.0	Loose; light grey (10YR 7/1) POORLY GRADED SAND (SP); Fine sand; wet; non plastic; non cohesive; non plastic; massive;	SP			0.1													
			110.0																		
14RS	9.6 / 10.0	NA	110.0 - 112.0	Loose; grey (10YR 5/1) POORLY GRADED SAND (SP); fine to medium Medium sand; wet; non plastic; non cohesive; massive;	SP			0.3													
			112.0 - 115.0	Loose; grey (10YR 4/1) WELL GRADED SAND (SW); Medium to coarse sand; wet; non plastic; non-cohesive; massive;	SW			0.2													
			115.0																		
			116.0																		

Driller Comments
 - Approximately DTW 27ft. bgs.
 - Approximately 400 gallons used to flush casing during drilling

Sample		Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments				
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200					
			116.0															
			117.0															
			118.0															
			119.0															
			120.0															
15 RS	10.0 10.0	NA	121.0															
			122.0															
			123.0															
LEAN CLAY WITH SAND (CL)			124.0															
			125.0															
			126.0															
			127.0															
			128.0															
			129.0															
			130.0															
16 RS	10.0	NA	131.0															
			132.0															
			133.0															
			134.0															
			135.0															
			136.0															

15 RS
10.0
10.0
NA

LEAN CLAY WITH SAND (CL)

Hard; Brownish gray (10YR 4/3)
LEAN CLAY (CL); moist; low plasticity;
cohesive; massive; little

121.8

0.3

moist

Bed rock at 129 feet bgs.
SILURIAN DOLOMITE

129.0

16 RS
10.0
NA

wet.

Driller Comment
encountered bedrock at 129.0 ft

Driller Comment
switched over to use water while drilling 130-140'

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name: **Former Newton Gravel Pit** Local Grid Location of Well: _____ Well Name: **PZ-16A**

Facility License, Permit or Monitoring No.: _____ Local Grid Origin (estimated:) or Well Location: _____ Wis. Unique Well No.: _____ DNR Well Id No.: **U0248**

Facility ID: _____ Lat. _____ Long _____ or _____ Date Well Installed: **11/01/2014**

Type of Well: _____ St. Plane _____ ft N _____ ft E S/C/N _____ m m dd yyyy
 Section Location of Waste/Source: _____ Well Installed By: Name (first, last) and Firm: **Mike Bremner**

Well Code: _____ Location of Well relative to Waste/Source: _____ Gov. Lot No.: **Cascade**

Distance from Waste/Source _____ ft. Enf. Stds. Apply u Upgradient s Sidegradient
 d Downgradient n Not Known

A. Protective pipe, top elevation _____ ft. MSL Yes No
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation _____ ft. MSL
 D. Surface seal, bottom _____ ft. MSL or _____ Ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

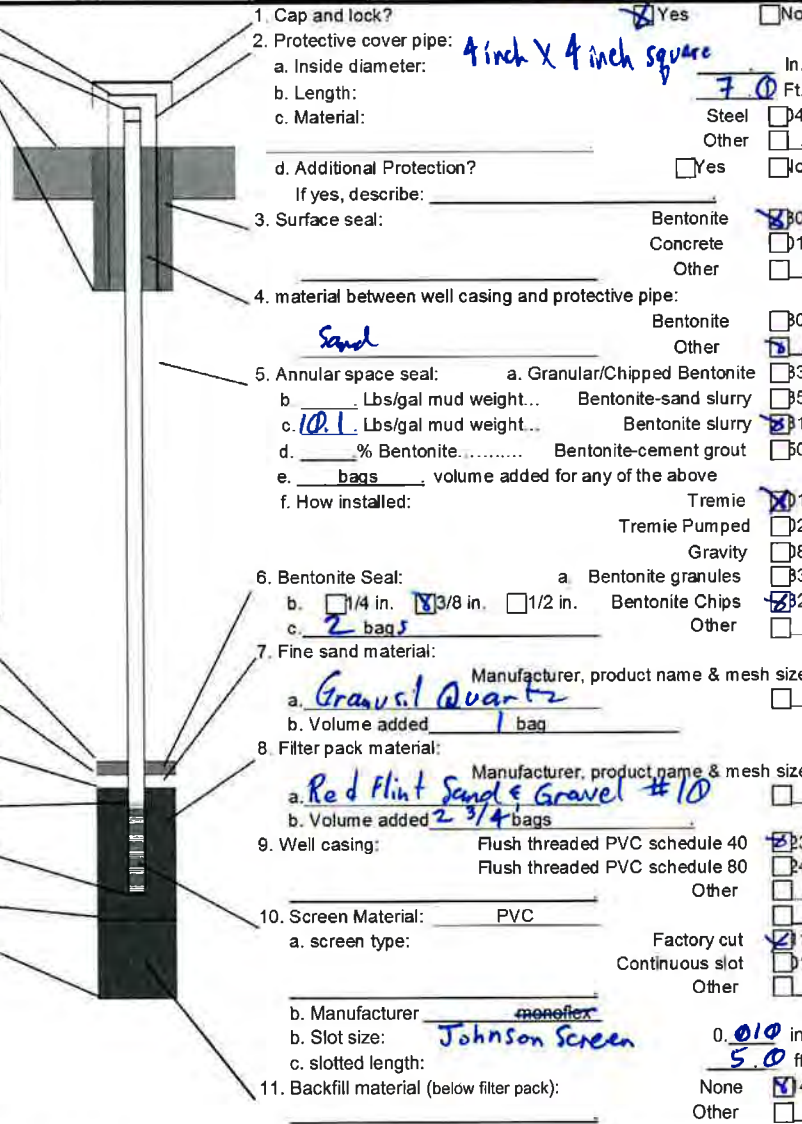
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Rotary Sonic Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 09

16. Drilling additives used? Yes No
 Describe: **NA**

17. Source of water (attach analysis, if required): **NA**



E. Bentonite seal, top _____ ft. MSL **0** ft.
 F. Fine sand, top _____ ft. MSL **46.0** ft.
 G. Filter Pack, top _____ ft. MSL **48.0** ft.
 H. Screen joint, top _____ ft. MSL **50.0** ft.
 I. Well Bottom _____ ft. MSL **55.0** ft.
 J. Filter Pack, bottom _____ ft. MSL **55.0** ft.
 K. Borehole, bottom _____ ft. MSL **55.0** ft.
 L. Borehole, diameter _____ In.
 M. O.D. well casing _____ In.
 N. I.D. well casing **2** In.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: **[Signature]** Firm: **AECOM**
 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name: **Former Newton Gravel Pit** Local Grid Location of Well: _____ Well Name: **PZ-16B**

Facility License, Permit or Monitoring No.: _____ Local Grid Origin (estimated:) or Well Location: _____ Wis. Unique Well No.: _____ DNR Well Id No.: **00247**

Facility ID: _____ Lat. _____ Long. _____ or _____ Date Well Installed: **11 / 01 / 2014**

Type of Well: _____ St. Plane _____ ft N _____ ft E S/C/N _____ m m dd yyyy
 Section Location of Waste/Source: _____ Well Installed By: Name (first, last) and Firm: **Mike Biemair**

Well Code: _____ Location of Well relative to Waste/Source: _____ Gov. Lot No.: **Cascade**

Distance from Waste/Source _____ ft. Enf. Stds. Apply u Upgradient s Sidegradient
 d Downgradient n Not Known

A. Protective pipe, top elevation _____ ft. MSL Yes No
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation _____ ft. MSL
 D. Surface seal, bottom _____ Ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

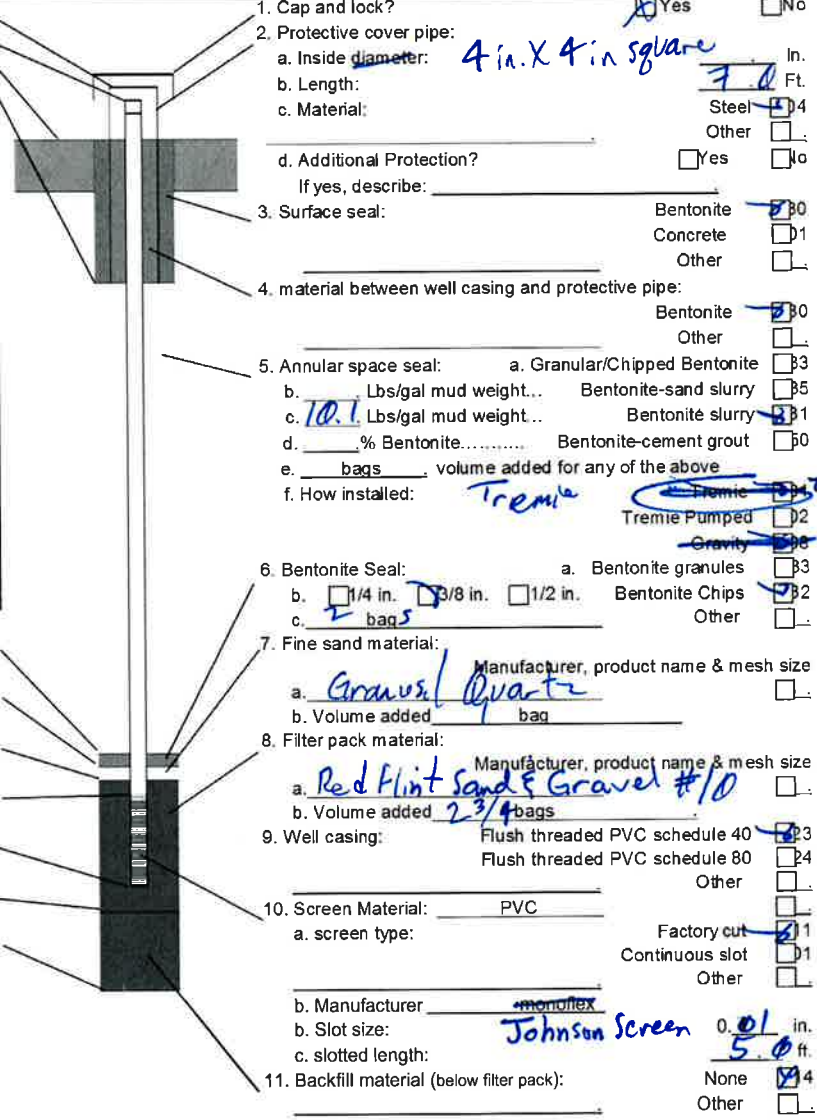
13. Sieve analysis performed? Yes No

14 Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Rotary Sonic Other

15 Drilling fluid used: Water D2 Air D1
 Drilling Mud D3 None D99

16 Drilling additives used? Yes No
 Describe: **NA**

17. Source of water (attach analysis, if required): **NA**



E Bentonite seal, top _____ ft. MSL **71.0**
 F. Fine sand, top _____ ft. MSL **76.0**
 G. Filter Pack, top _____ ft. MSL **78.0**
 H. Screen joint, top _____ ft. MSL **80.0**
 I. Well Bottom _____ ft. MSL **85.0**
 J. Filter Pack, bottom _____ ft. MSL **95.0**
 K. Borehole, bottom _____ ft. MSL **85.0**
 L. Borehole, diameter **5 3/4** in..
 M. O.D. well casing _____ in..
 N. I.D. well casing **2** in..

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: **Tad S. [Signature]** Firm: **AECOM**
 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name: **Former Newton Gravel Pit** Local Grid Location of Well: _____ Well Name: **PZ-16C**

Facility License, Permit or Monitoring No.: _____ Local Grid Origin (estimated:) or Well Location: _____ Wis. Unique Well No.: _____ DNR Well Id No.: **U0246**

Facility ID: _____ Lat. _____ Long _____ or _____ Date Well Installed: **10/31/2014**

Type of Well: _____ Section Location of Waste/Source: _____ Well installed By: Name (first, last) and Firm: **Mike Blomquist Cascade**

Well Code: **1** Location of Well relative to Waste/Source: _____ Gov. Lot No.: _____

Distance from Waste/Source _____ ft. Upgradient Downgradient Sidegradient Not Known

A. Protective pipe, top elevation _____ ft. MSL Yes No
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation _____ ft. MSL
 D. Surface seal, bottom _____ ft. MSL or _____ Ft.

1. Cap and lock? Yes No
 2. Protective cover pipe:
 a. Inside diameter: **4.4** in.
 b. Length: **7** Ft.
 c. Material: Steel Other
 d. Additional Protection? Yes No
 If yes, describe: _____

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

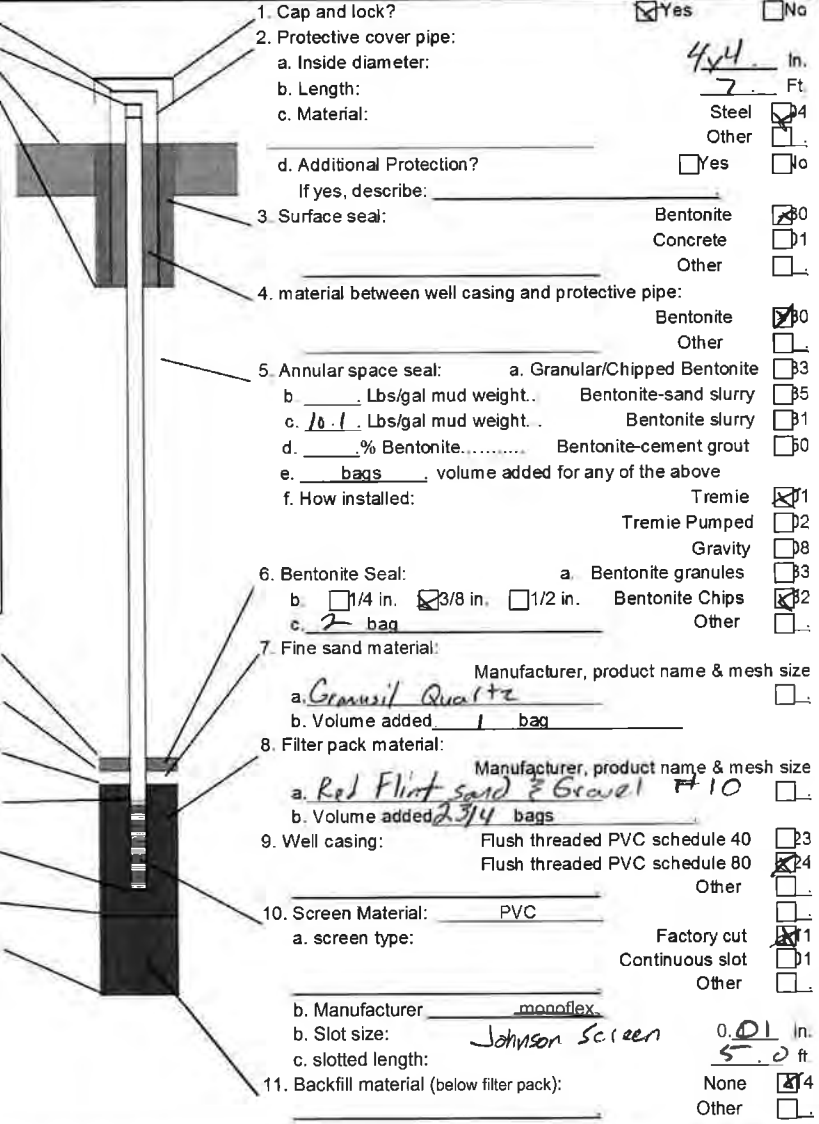
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
Rotasonic Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 09

16. Drilling additives used? Yes No
 Describe: _____

17. Source of water (attach analysis, if required): **N/A**



E. Bentonite seal, top _____ ft. MSL **58.0** ft.
 F. Fine sand, top _____ ft. MSL **94** ft.
 G. Filter Pack, top _____ ft. MSL **96** ft.
 H. Screen joint, top _____ ft. MSL **98.0** ft.
 I. Well Bottom _____ ft. MSL **103.0** ft.
 J. Filter Pack, bottom _____ ft. MSL **103.0** ft.
 K. Borehole, bottom _____ ft. MSL **103.0** ft.
 L. Borehole, diameter **5.314** in..
 M. O.D. well casing _____ in..
 N. I.D. well casing **2** in..

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: _____ Firm: **AECOM**
 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name: **Former Newton Gravel Pit** Local Grid Location of Well: _____ Well Name: **WT-24**

Facility License, Permit or Monitoring No.: _____ Local Grid Origin (estimated:) or Well Location: _____ Wis. Unique Well No.: _____ DNR Well Id No.: _____

Facility ID: _____ Lat. _____ Long _____ or _____ Date Well Installed: **10 / 29 / 2014**

Type of Well: _____ St. Plane _____ ft N _____ ft E S/C/N _____ m m dd yyyy
 Section Location of Waste/Source: _____ Well Installed By: Name (first, last) and Firm: **Jason Deabek CWC Corp**

Well Code: _____ Location of Well relative to Waste/Source: _____ Gov. Lot No.: _____

Distance from Waste/Source _____ ft. Enf. Stds. Apply u Upgradient s Sidegradient
 d Downgradient n Not Known

A. Protective pipe, top elevation _____ ft. MSL Yes No
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation _____ ft. MSL or _____ Ft.
 D. Surface seal, bottom _____ ft. MSL

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

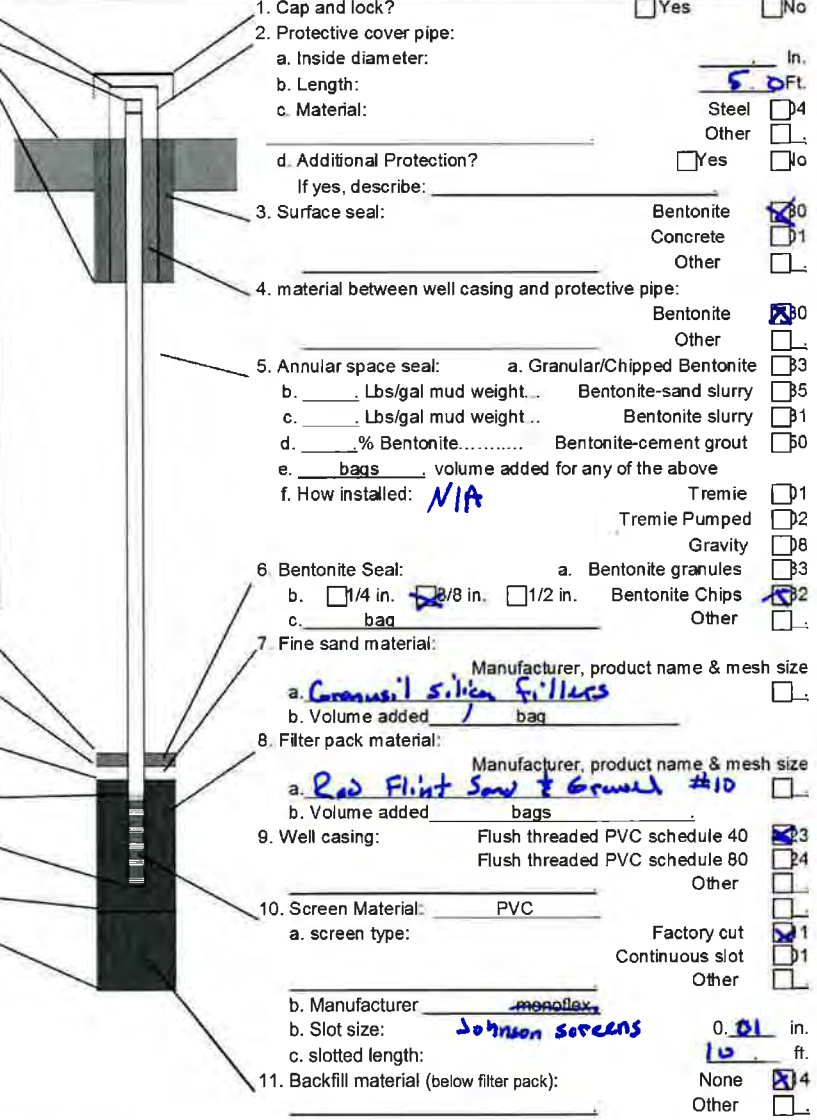
13. Sieve analysis performed? Yes No

14 Drilling method used: Rotary 50
 Hollow Stem Auger 41
Rotasonic Other

15 Drilling fluid used: Water D2 Air D1
 Drilling Mud D3 None D99

16 Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):



E. Bentonite seal, top _____ ft. MSL **0.0** ft.
 F. Fine sand, top _____ ft. MSL **3.0** ft.
 G. Filter Pack, top _____ ft. MSL **3.5** ft.
 H. Screen joint, top _____ ft. MSL **4.0** ft.
 I. Well Bottom _____ ft. MSL **14.0** ft.
 J. Filter Pack, bottom _____ ft. MSL **14.0** ft.
 K. Borehole, bottom _____ ft. MSL **14.0** ft.
 L. Borehole, diameter **5 3/4** In..
 M. O.D. well casing **6.0** In..
 N. I.D. well casing **2.0** In..

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [Signature] Firm: **AECOM**
 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name: **Former Newton Gravel Pit**

Local Grid Location of Well: **PZ-24A**

Well Name: **PZ-24A**

Local Grid Origin (estimated) or Well Location: **W 70 ft, N 10 ft**

Wis. Unique Well No: **10204**

DNR Well Id No: **10204**

Facility License, Permit or Monitoring No.

Lat. Long. or St. Plane: **161 281 2014**

Date Well Installed: **161 281 2014**

Type of Well: **Jason Drabek Cascade**

Well Installed By: Name (first, last) and Firm

Well Code: **1**

Location of Well relative to Waste/Source: **u** Upgradient **s** Sidegradient **d** Downgradient **n** Not Known

Distance from Waste/Source: **40** ft.

Enf. Stds. Apply

A. Protective pipe, top elevation: **40** ft. MSL

B. Well casing, top elevation: **40** ft. MSL

C. Land surface elevation: **40** ft. MSL

D. Surface seal, bottom: **40** ft. MSL

1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: **7.0** in.
 b. Length: **7.0** ft.
 c. Material: Steel Other

3. Surface seal: Bentonite Concrete Other

4. material between well casing and protective pipe: Bentonite Other

5. Annular space seal:
 a. Granular/Chipped Bentonite
 b. Lbs/gal mud weight... Bentonite-sand slurry
 c. Lbs/gal mud weight... Bentonite slurry
 d. % Bentonite... Bentonite-cement grout
 e. bags volume added for any of the above

6. Bentonite Seal:
 a. Bentonite granules
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite Chips Other

7. Fine sand material:
 a. Manufacturer, product name & mesh size: **Granusil Silica Fillers**
 b. Volume added: **1** bag

8. Filter pack material:
 a. Manufacturer, product name & mesh size: **Red Flint Sand & Gravel #10**
 b. Volume added: **2.75** bags

9. Well casing: Flush threaded PVC schedule 40 Flush threaded PVC schedule 80 Other

10. Screen Material: **PVC**
 a. screen type: Factory cut Continuous slot Other

b. Manufacturer: **monoflex**
 b. Slot size: **Johnson screens** **001** in.
 c. slotted length: **1050** ft.

11. Backfill material (below filter pack): None Other

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

14 Drilling method used: Rotary 50
 Hollow Stem Auger 41
Rotasonic Other

15 Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16 Drilling additives used? Yes No
 Describe

17. Source of water (attach analysis, if required):

E. Bentonite seal, top: **40.0** ft. MSL

F. Fine sand, top: **46.0** ft. MSL

G. Filter Pack, top: **48.0** ft. MSL

H. Screen joint, top: **50.0** ft. MSL

I. Well Bottom: **55.0** ft. MSL

J. Filter Pack, bottom: **55.0** ft. MSL

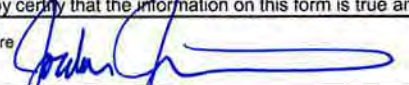
K. Borehole, bottom: **55.0** ft. MSL

L. Borehole, diameter: **5 3/4** in.

M. O.D. well casing: **2** in.

N. I.D. well casing: **2** in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

Please complete both forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name: **Former Newton Gravel Pit** Well Name: **PZ-24B**

Local Grid Location of Well: _____ ft N _____ ft E
 _____ ft S _____ ft W

Facility License, Permit or Monitoring No. _____ Wis. Unique Well No. _____ DNR Well Id No. **10205**

Facility ID _____ Date Well Installed: **10 / 28 / 2014**

Type of Well _____ Section Location of Waste/Source _____
 _____ 1/4 of _____ of Sec. _____ T. _____ N. R. _____ W. E
 Well Installed By: Name (first, last) and Firm
Jason Drabek Cascade

Well Code: **1** Location of Well relative to Waste/Source _____ Gov. Lot No. _____
 Distance from Waste/Source _____ ft. Enf. Stds. Apply
 u s Sidegradient
 d n Not Known

A. Protective pipe, top elevation _____ ft. MSL Yes No
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation _____ ft. MSL
 D. Surface seal, bottom _____ ft. MSL or **4.0** Ft.

1. Cap and lock? Yes No
 2. Protective cover pipe:
 a. Inside diameter: **square** _____ In.
 b. Length: **7** _____ Ft.
 c. Material: Steel Other
 d. Additional Protection? Yes No
 If yes, describe: _____

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

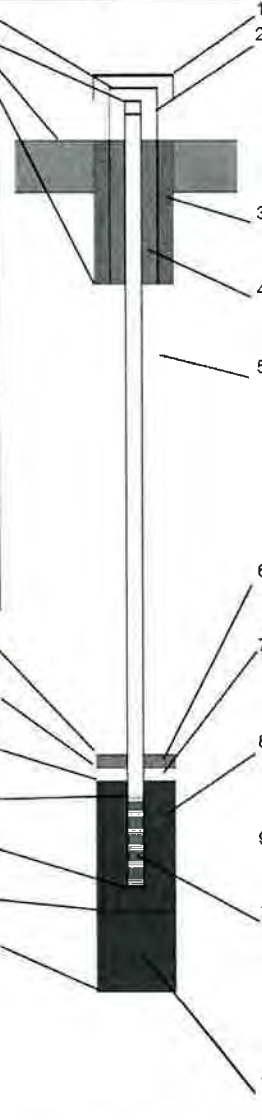
13. Sieve analysis performed? Yes No

14 Drilling method used: Rotary 50
 Hollow Stem Auger 41
Rotasonic Other

15 Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 09

16 Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required): _____



3. Surface seal: Bentonite 0
 Concrete 1
 Other

4. material between well casing and protective pipe: Bentonite 0
 Other

5. Annular space seal: a. Granular/Chipped Bentonite 3
 b. _____ Lbs/gal mud weight... Bentonite-sand slurry 5
 c. **10.1** Lbs/gal mud weight... Bentonite slurry 1
 d. _____ % Bentonite... Bentonite-cement grout 0
 e. _____ bags volume added for any of the above
 f. How installed: Tremie 1
 Tremie Pumped 2
 Gravity 8
 Other

6. Bentonite Seal: a. Bentonite granules 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite Chips 2
 c. **2** bag Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. **Granasil silica fillers**
 b. Volume added _____ bag

8. Filter pack material: Manufacturer, product name & mesh size
 a. **Red Flint Sand & Gravel #10**
 b. Volume added **2 3/4** bags

9. Well casing: Flush threaded PVC schedule 40 3
 Flush threaded PVC schedule 80 4
 Other

10. Screen Material: PVC
 a. screen type: Factory cut 1
 Continuous slot 1
 Other

b. Manufacturer: **monoflex** **John Screens**
 c. slot size: **0.4** in.
 c. slotted length: _____ ft.

11. Backfill material (below filter pack): None 4
 Other

E Bentonite seal, top _____ ft. MSL **70.0** ft.
 F. Fine sand, top _____ ft. MSL **76.0** ft.
 G. Filter Pack, top _____ ft. MSL **87.0** ft.
 H. Screen joint, top _____ ft. MSL **80.0** ft.
 I. Well Bottom _____ ft. MSL **85.0** ft.
 J. Filter Pack, bottom _____ ft. MSL **85.0** ft.
 K. Borehole, bottom _____ ft. MSL **85.0** ft.
 L. Borehole, diameter **5 3/4** In..
 M. O.D. well casing _____ In..
 N. I.D. well casing **2** In..

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **AECOM**
 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name: **Former Newton Gravel Pit** Local Grid Location of Well: _____ Well Name: **P2-24C**

Facility License, Permit or Monitoring No. _____ Local Grid Origin (estimated:) or Well Location _____ Wis. Unique Well No. _____ DNR Well Id No. _____

Facility ID _____ Lat. _____ Long. _____ or _____ Date Well Installed: **10/28/2014**

Type of Well _____ St. Plane _____ ft N _____ ft E S/C/N _____ m m _____ d d _____ y y y y
 Well Installed By: Name (first, last) and Firm: **Jason Drabek Cascade**

Section Location of Waste/Source: _____ Gov. Lot No. _____
 Location of Well relative to Waste/Source: _____
 1/4 of _____ of Sec. _____, T. _____ N. R. _____ W. _____
 u Upgradient s Sidegradient
 d Downgradient n Not Known

A. Protective pipe, top elevation _____ ft. MSL Yes No
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation _____ ft. MSL
 D. Surface seal, bottom _____ ft. MSL or **4.0** Ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

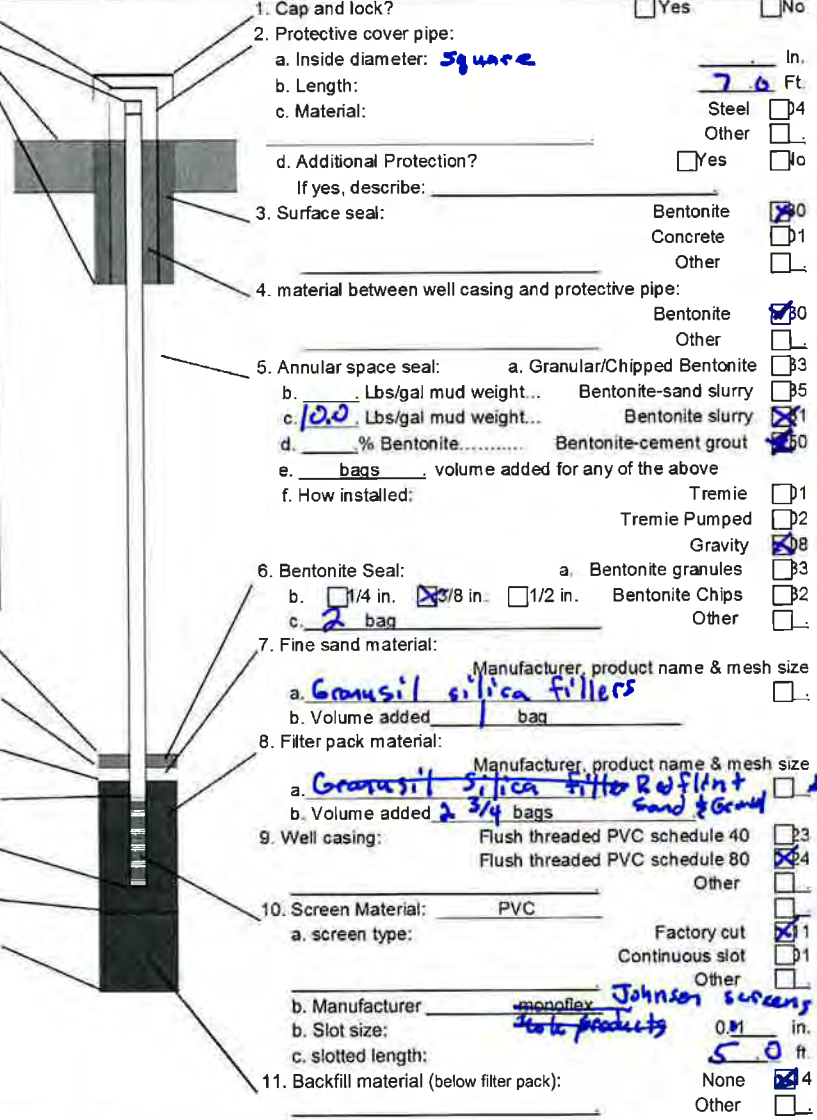
13. Sieve analysis performed? Yes No

14 Drilling method used: Rotary 50
 Hollow Stem Auger 41
Rotasonic Other

15 Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 09

16 Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required): _____



E Bentonite seal, top _____ ft. MSL **106.0**
 F. Fine sand, top _____ ft. MSL **112.0**
 G. Filter Pack, top _____ ft. MSL **114.0**
 H. Screen joint, top _____ ft. MSL **116.0**
 I. Well Bottom _____ ft. MSL **121.0**
 J. Filter Pack, bottom _____ ft. MSL **121.0**
 K. Borehole, bottom _____ ft. MSL **121.0**
 L. Borehole, diameter **5 3/4** In..
 M. O.D. well casing _____ In..
 N. I.D. well casing **2** In..

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Handwritten Signature]* Firm: **AECOM**
 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit	Local Grid Location of Well ft N ft S	Well Name UT-25
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated:) or Well Location	Wis. Unique Well No DNR Well Id No.
Facility ID	Lat. Long	Date Well Installed 10 / 31 / 2014
Type of Well	St. Plane ft N ft E S/C/N	Well Installed By: Name (first, last) and Firm Jason Drabek Cascade
Well Code 1	Section Location of Waste/Source 1/4 of of Sec. T. N. R. W	Gov. Lot No.
Distance from Waste/Source ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known

A. Protective pipe, top elevation B. Well casing, top elevation C. Land surface elevation D. Surface seal, bottom	ft. MSL ft. MSL ft. MSL or Ft.	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Protective cover pipe: a. Inside diameter: 4.4 in. b. Length: 7 Ft. c. Material: Steel <input checked="" type="checkbox"/> 4 Other <input type="checkbox"/> d. Additional Protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: 3. Surface seal: Bentonite <input checked="" type="checkbox"/> 80 Concrete <input type="checkbox"/> 1 Other <input type="checkbox"/> 4. material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 80 Other <input type="checkbox"/> 5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 b. Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. bags volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 1 Tremie Pumped <input type="checkbox"/> 2 Gravity <input checked="" type="checkbox"/> 8 6. Bentonite Seal: a. Bentonite granules <input type="checkbox"/> 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite Chips <input type="checkbox"/> 2 c. 2 bag Other <input type="checkbox"/> 7. Fine sand material: Manufacturer, product name & mesh size a. Granasil silica fine b. Volume added 1 bag 8. Filter pack material: Manufacturer, product name & mesh size a. Red flint sand & gravel #10 b. Volume added 2.5 bags 9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/> 10. Screen Material: PVC a. screen type: Factory cut <input checked="" type="checkbox"/> 1 Continuous slot <input type="checkbox"/> 1 Other <input type="checkbox"/> b. Manufacturer manuflex c. Slot size: Johnson screens 0. DLU in. c. slotted length: 10.0 ft. 11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 4 Other <input type="checkbox"/>
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12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
Rotasonic Other

15. Drilling fluid used: Water 2 Air 01
 Drilling Mud 3 None 39

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top	ft. MSL	0	ft.
F. Fine sand, top	ft. MSL	6.0	ft.
G. Filter Pack, top	ft. MSL	8.0	ft.
H. Screen joint, top	ft. MSL	10.0	ft.
I. Well Bottom	ft. MSL	20.0	ft.
J. Filter Pack, bottom	ft. MSL	20.0	ft.
K. Borehole, bottom	ft. MSL	20.0	ft.
L. Borehole, diameter	In.	5 3/4	
M. O.D. well casing	In.		
N. I.D. well casing	In.	2	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Signature]* Firm: **AECOM**
 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name: **Former Newton Gravel Pit**

Local Grid Location of Well: _____ ft N _____ ft E _____ ft S _____ ft W

Well Name: **25A
PZ-25B**

Facility License, Permit or Monitoring No.: _____

Local Grid Origin (estimated:) or Well Location: _____

Wis. Unique Well No.: _____ DNR Well Id No.: **V0208**

Facility ID: _____

Lat. _____ Long _____

Date Well Installed: **10/30/2014**

St. Plane _____ ft N _____ ft E S/C/N

Section Location of Waste/Source: _____

Type of Well: _____

Well Code: _____

Distance from Waste/Source _____ ft

Enf. Stds. Apply

Location of Well relative to Waste/Source: u Upgradient s Sidegradient
d Downgradient n Not Known

Gov. Lot No.: _____

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ Ft.

1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: **4x4** In.
 b. Length: **7.0** Ft.
 c. Material: Steel Other

3. Surface seal: Bentonite Concrete Other

4. material between well casing and protective pipe: Bentonite Other

5. Annular space seal:
 a. Granular/Chipped Bentonite
 b. _____ Lbs/gal mud weight... Bentonite-sand slurry
 c. **10.0** Lbs/gal mud weight... Bentonite slurry
 d. _____ % Bentonite... Bentonite-cement grout
 e. _____ bags volume added for any of the above
 f. How installed: Tremie Tremie Pumped Gravity

6. Bentonite Seal:
 a. Bentonite granules
 b. 1/4 in. 3/8 in. 1/2 in.
 c. _____ bag Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. _____
 b. Volume added _____ bag

8. Filter pack material: Manufacturer, product name & mesh size
 a. **Red Flint sand & gravel #10**
 b. Volume added **2 3/4** bags

9. Well casing: Flush threaded PVC schedule 40 Flush threaded PVC schedule 80 Other

10. Screen Material: PVC
 a. screen type: Factory cut Continuous slot Other
 b. Manufacturer: **monoflex**
 b. Slot size: **Johnson screens** **0.01** in.
 c. slotted length: **5.0** ft

11. Backfill material (below filter pack): None Other

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

14 Drilling method used: Rotary 50
 Hollow Stem Auger 41
Rotasonic Other

15 Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16 Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required): _____

E Bentonite seal, top _____ ft. MSL **50.0** ft.

F. Fine sand, top _____ ft. MSL **56.0** ft.

G. Filter Pack, top _____ ft. MSL **58.0** ft.

H. Screen joint, top _____ ft. MSL **60.0** ft.

I. Well Bottom _____ ft. MSL **65.0** ft.

J. Filter Pack, bottom _____ ft. MSL **65.0** ft.

K. Borehole, bottom _____ ft. MSL **65.0** ft.

L. Borehole, diameter **5 3/4** In..

M. O.D. well casing _____ In..

N. I.D. well casing **2** In..

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:

Firm: **AECOM**
 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

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Route to: Watershed/Wastewater Waste Management Remediation/Redevelopment Other

Facility/Project Name: **Former Newton Gravel Pit**

Local Grid Location of Well: N _____ ft. E _____ ft. S _____ ft. W _____ ft.

Well Name: **72-25B**

Facility License, Permit or Monitoring No. _____

Local Grid Origin (estimated:) or Well Location _____

Wis. Unique Well No. _____ DNR Well Id No. **6**

Lat. _____ Long. _____

Facility ID _____

St. Plane _____ ft N _____ ft E S/C/N _____

Date Well Installed: **10/30/2014**

m m d d yyyy

Type of Well _____

Section Location of Waste/Source _____

Well Installed By: Name (first, last) and Firm _____

Well Code _____

Location of Well relative to Waste/Source _____ Gov. Lot No. _____

Distance from Waste/Source _____ ft. u d s n Upgradient Downgradient s n Sidegradient Not Known

A. Protective pipe, top elevation _____ ft. MSL Yes No

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ Ft.

1. Cap and lock? Yes No

2. Protective cover pipe:

a. Inside diameter: **4.4** in.

b. Length: **7.0** Ft.

c. Material: Steel Other

d. Additional Protection? Yes No

If yes, describe: _____

12. USCS classification of soil near screen:

GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

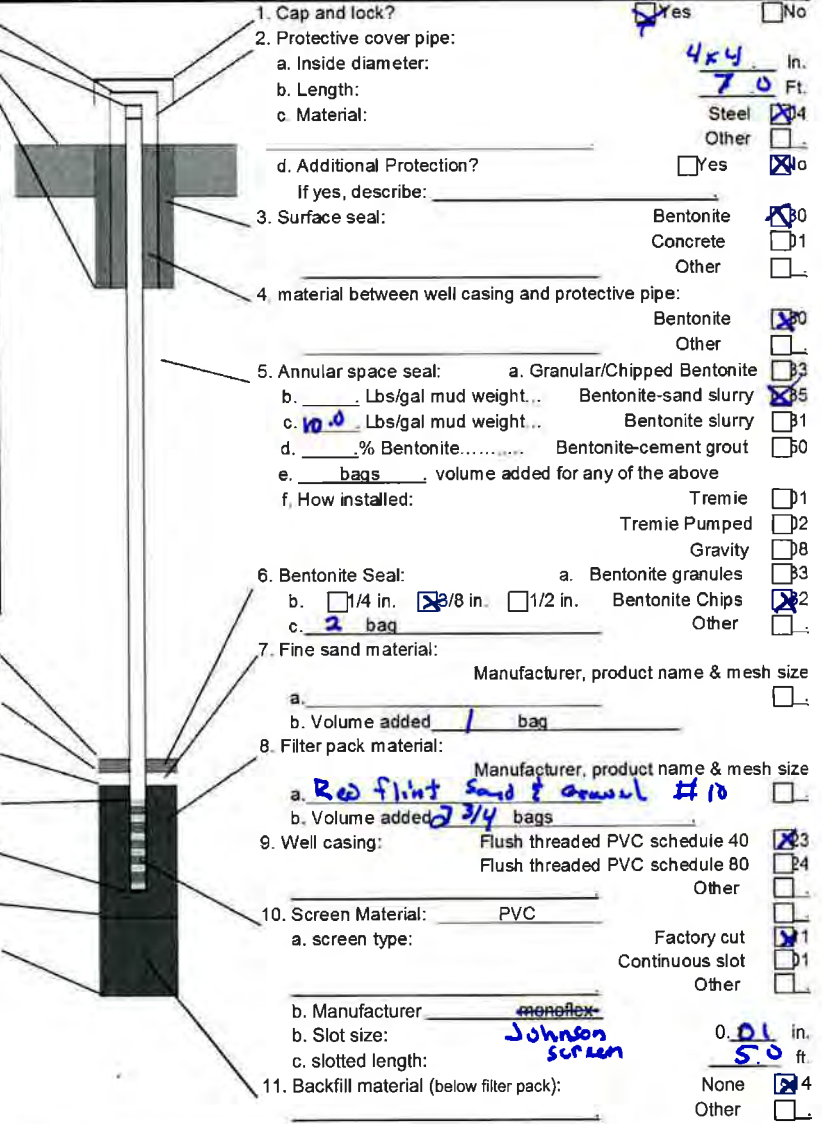
13. Sieve analysis performed? Yes No

14 Drilling method used: Rotary 50
Hollow Stem Auger 41
Rotasonic Other

15 Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 09

16 Drilling additives used? Yes No
Describe _____

17. Source of water (attach analysis, if required): _____



E Bentonite seal, top _____ ft. MSL **80.0** ft.

F. Fine sand, top _____ ft. MSL **86.** ft.

G. Filter Pack, top _____ ft. MSL **88.0** ft.

H. Screen joint, top _____ ft. MSL **90.0** ft.

I. Well Bottom _____ ft. MSL **95.0** ft.

J. Filter Pack, bottom _____ ft. MSL **95.0** ft.

K. Borehole, bottom _____ ft. MSL **95.0** ft.

L. Borehole, diameter **5 3/4** In.

M. O.D. well casing _____ In.

N. I.D. well casing **2.** In.

3. Surface seal: Bentonite 0
Concrete 1
Other

4. material between well casing and protective pipe: Bentonite 0
Other

5. Annular space seal: a. Granular/Chipped Bentonite 3
b. _____ Lbs/gal mud weight... Bentonite-sand slurry 5
c. **10.0** Lbs/gal mud weight... Bentonite slurry 1
d. _____ % Bentonite... Bentonite-cement grout 0
e. _____ bags volume added for any of the above
f. How installed: Tremie 1
Tremie Pumped 2
Gravity 8

6. Bentonite Seal: a. Bentonite granules 3
b. 1/4 in. 3/8 in. 1/2 in. Bentonite Chips 2
c. **2** bag Other

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added **1** bag

8. Filter pack material: Manufacturer, product name & mesh size
a. **Red flint sand & gravel #10**
b. Volume added **2 3/4** bags

9. Well casing: Flush threaded PVC schedule 40 3
Flush threaded PVC schedule 80 4
Other

10. Screen Material: **PVC**

a. screen type: Factory cut 1
Continuous slot 1
Other

b. Manufacturer **monoflex**
c. slotted length: **Johnson screen** **0.01** in. **5.0** ft.

11. Backfill material (below filter pack): None 4
Other

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Handwritten Signature]* Firm: **AECOM**
1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit	Local Grid Location of Well ft N ft S ft E ft W	Well Name 72-25C
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>	Wis. Unique Well No DNR Well Id No. VO206
Facility ID	Lat. Long. or St. Plane ft N ft E S/C/N	Date Well Installed 10/30/2014 m m d d yyyy
Type of Well	Section Location of Waste/Source 1/4 of of Sec. T, N, R W <input checked="" type="checkbox"/>	Well Installed By: Name (first, last) and Firm Jason Dm bok Cascade
Well Code	Location of Well relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot No.
Distance from Waste/Source ft.	Enf. Sids Apply <input type="checkbox"/>	

A. Protective pipe, top elevation ft. MSL _____

B. Well casing, top elevation ft. MSL _____

C. Land surface elevation ft. MSL or _____

D. Surface seal, bottom ft. MSL _____

1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: **4.4** in.
b. Length: **70** Ft.
c. Material: Steel 4
Other

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

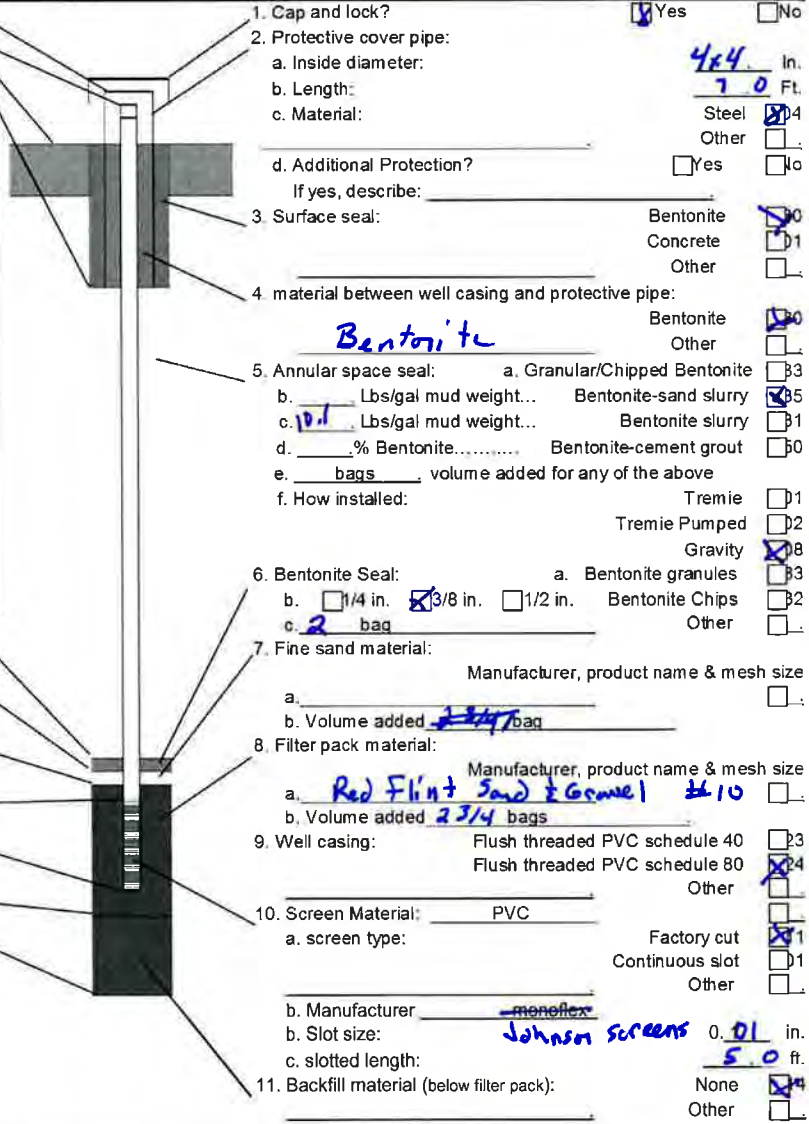
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
Rotasonic Other

15. Drilling fluid used: Water D2 Air 01
 Drilling Mud D3 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):



3. d. Additional Protection? Yes No
 If yes, describe: _____

4. material between well casing and protective pipe:
 Bentonite 40
 Other

5. Annular space seal:
 a. Granular/Chipped Bentonite 3
 b. **10.1** Lbs/gal mud weight... Bentonite-sand slurry 35
 c. **10.1** Lbs/gal mud weight... Bentonite slurry 31
 d. _____ % Bentonite... Bentonite-cement grout 30
 e. _____ bags, volume added for any of the above

6. Bentonite Seal:
 a. Bentonite granules 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite Chips 32
 c. **2** bag Other

7. Fine sand material:
 Manufacturer, product name & mesh size
 a. _____
 b. Volume added **2 3/4** bag

8. Filter pack material:
 Manufacturer, product name & mesh size
 a. **Red Flint Sand & Gravel #10**
 b. Volume added **2 3/4** bags

9. Well casing:
 Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other

10. Screen Material: PVC
 a. screen type:
 Factory cut 1
 Continuous slot 1
 Other

b. Manufacturer **monoflex**
 c. Slot size: **Johnson screens** **0.01** in.
 c. slotted length: **5.0** ft.

11. Backfill material (below filter pack):
 None 4
 Other

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Signature]* Firm: **AECOM**
 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name: **Former Newton Gravel Pit** Local Grid Location of Well: _____ Well Name: **WT-26**

Facility License, Permit or Monitoring No.: _____ Local Grid Origin (estimated:) or Well Location: _____ Wis. Unique Well No.: _____ DNR Well Id No.: _____

Facility ID: _____ Lat. _____ Long. _____ or _____ Date Well Installed: **11 / 04 / 2014**

Type of Well: _____ Section Location of Waste/Source: _____ Well Installed By: Name (first, last) and Firm: **John Dambek Cascade**

Well Code: _____ Location of Well relative to Waste/Source: _____ Gov. Lot No.: _____

Distance from Waste/Source _____ ft. Enf. Stds. Apply u Upgradient s Sidegradient
d Downgradient n Not Known

A. Protective pipe, top elevation _____ ft. MSL Yes No
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation _____ ft. MSL
 D. Surface seal, bottom _____ Ft.

1. Cap and lock? Yes No
 2. Protective cover pipe:
 a. Inside diameter: **4.4** in.
 b. Length: **7.0** Ft.
 c. Material: Steel 4
Other

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

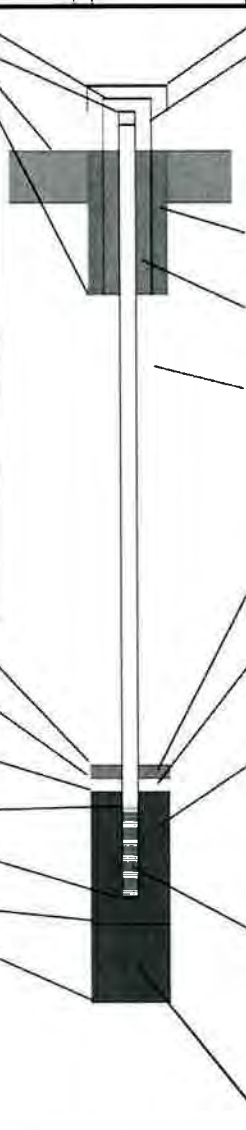
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
Robosonic Other 3

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 09

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required): _____



E. Bentonite seal, top _____ ft. MSL **0.0** ft.
 F. Fine sand, top _____ ft. MSL **20.0** ft.
 G. Filter Pack, top _____ ft. MSL **22.0** ft.
 H. Screen joint, top _____ ft. MSL **24.0** ft.
 I. Well Bottom _____ ft. MSL **34.0** ft.
 J. Filter Pack, bottom _____ ft. MSL **34.0** ft.
 K. Borehole, bottom _____ ft. MSL **34.0** ft.
 L. Borehole, diameter **5.74** In..
 M. O.D. well casing _____ In..
 N. I.D. well casing **2.0** In..

d. Additional Protection? Yes No
 If yes, describe: _____

3. Surface seal: Bentonite 0
 Concrete 1
 Other

4. material between well casing and protective pipe: Bentonite 0
 Other

5. Annular space seal: a. Granular/Chipped Bentonite 3
 b. _____ Lbs/gal mud weight... Bentonite-sand slurry 5
 c. _____ Lbs/gal mud weight... Bentonite slurry 1
 d. _____ % Bentonite... Bentonite-cement grout 0
 e. _____ bags, volume added for any of the above
 f. How installed: Tremie 1
 Tremie Pumped 2
 Gravity 0

6. Bentonite Seal: a. Bentonite granules 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite Chips 2
 c. **6 1/2 bag** Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. **Granasil Quartz**
 b. Volume added _____ bag

8. Filter pack material: Manufacturer, product name & mesh size
 a. **Red Flint Sand & Gravel #10**
 b. Volume added **5 1/2** bags

9. Well casing: Flush threaded PVC schedule 40 3
 Flush threaded PVC schedule 80 4
 Other

10. Screen Material: PVC
 a. screen type: Factory cut 1
 Continuous slot 1
 Other

b. Manufacturer **monoflex**
 b. Slot size: **Johnson Screens** **0.01** in.
 c. slotted length: _____ ft.

11. Backfill material (below filter pack): None 4
 Other

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *John Dambek* Firm: **AECOM**
 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name: **Former Newton Gravel Pit** Local Grid Location of Well: _____ Well Name: **PZ-26A**

Facility License, Permit or Monitoring No.: _____ Local Grid Origin (estimated:) or Well Location: _____ Wis. Unique Well No.: _____ DNR Well Id No.: _____

Facility ID: _____ Lat. _____ Long _____ or _____ Date Well Installed: ____/____/2014

Type of Well: _____ St. Plane: _____ ft N _____ ft E S/C/N _____ m m d d yyyy

Section Location of Waste/Source: _____ Well Installed By: Name (first, last) and Firm _____

Well Code: _____ Location of Well relative to Waste/Source: _____ Gov. Lot No.: _____

Distance from Waste/Source: _____ ft. Enf. Stds. Apply u Upgradient s Sidegradient
d Downgradient n Not Known

A. Protective pipe, top elevation _____ ft. MSL Yes No

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL or _____ Ft.

D. Surface seal, bottom _____ Ft.

2. Protective cover pipe:
a. Inside diameter: **4.0** In.
b. Length: **70** Ft.
c. Material: Steel 4
Other

d. Additional Protection? Yes No
If yes, describe: _____

3. Surface seal: Bentonite 0
Concrete 1
Other

4. material between well casing and protective pipe: Bentonite 0
Other

5. Annular space seal: a. Granular/Chipped Bentonite 3
b. _____ Lbs/gal mud weight... Bentonite-sand slurry 5
c. **10.1** Lbs/gal mud weight... Bentonite slurry 1
d. _____ % Bentonite... Bentonite-cement grout 0
e. _____ bags volume added for any of the above
f. How installed: Tremie 1
Tremie Pumped 2
Gravity 8

6. Bentonite Seal: a. Bentonite granules 3
b. 1/4 in. 3/8 in. 1/2 in. Bentonite Chips 2
c. **2** bag Other

7. Fine sand material: Manufacturer, product name & mesh size
a. **Granasil Quartz 1**
b. Volume added **1** bag

8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel #10**
b. Volume added **2 3/4** bags

9. Well casing: Flush threaded PVC schedule 40 3
Flush threaded PVC schedule 80 4
Other

10. Screen Material: PVC
a. screen type: Factory cut 1
Continuous slot 1
Other

b. Manufacturer: **monoflex**
b. Slot size: **Johnson Screen 0.01** in.
c. slotted length: **50** ft.

11. Backfill material (below filter pack): None 4
Other

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

13. Sieve analysis performed? Yes No

14 Drilling method used: Rotary 50
Hollow Stem Auger 41
Other

15 Drilling fluid used: Water 2 Air 01
Drilling Mud 03 None 09

16 Drilling additives used? Yes No
Describe _____

17. Source of water (attach analysis, if required): _____

E Bentonite seal, top _____ ft. MSL **60.0** ft.

F. Fine sand, top _____ ft. MSL **66.0** ft.

G. Filter Pack, top _____ ft. MSL **68.0** ft.

H. Screen joint, top _____ ft. MSL **70.0** ft.

I. Well Bottom _____ ft. MSL **75.0** ft.

J. Filter Pack, bottom _____ ft. MSL **75.0** ft.

K. Borehole, bottom _____ ft. MSL **75.0** ft.

L. Borehole, diameter _____ In..

M. O.D. well casing _____ In..

N. I.D. well casing **2** In..

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: _____ Firm: **AECOM**
1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name: **Former Newton Gravel Pit** Local Grid Location of Well: _____ Well Name: **PZ-268**

Facility License, Permit or Monitoring No.: _____ Local Grid Origin (estimated:) or Well Location: _____ Wis. Unique Well No.: _____ DNR Well Id No.: _____

Facility ID: _____ Lat. _____ Long. _____ or _____ Date Well Installed: **11 / 03 / 2014**

Type of Well: _____ Section Location of Waste/Source: _____ Well Installed By: Name (first, last) and Firm: **Mark Biermaier Casade**

Well Code: _____ Location of Well relative to Waste/Source: _____ Gov. Lot No.: _____

Distance from Waste/Source: _____ ft. Enf. Stds. Apply Location of Well relative to Waste/Source: Upgradient Downgradient Sidegradient Not Known

A. Protective pipe, top elevation _____ ft. MSL Yes No

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ Ft.

1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: **4.4** in.
 b. Length: **7.0** Ft.
 c. Material: Steel Other

3. Surface seal: Bentonite Concrete Other

4. material between well casing and protective pipe: Bentonite Other

5. Annular space seal:
 a. Granular/Chipped Bentonite
 b. _____ Lbs/gal mud weight... Bentonite-sand slurry
 c. **10.1** Lbs/gal mud weight... Bentonite slurry
 d. _____ % Bentonite... Bentonite-cement grout
 e. _____ bags volume added for any of the above
 f. How installed: Tremie Tremie Pumped Gravity

6. Bentonite Seal:
 a. Bentonite granules
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite Chips
 c. **2** bag Other

7. Fine sand material:
 a. **Granasil Quartz** Manufacturer, product name & mesh size
 b. Volume added **1** bag

8. Filter pack material:
 a. **Red Flint Sand & Gravel #10** Manufacturer, product name & mesh size
 b. Volume added **2 3/4** bags

9. Well casing: Flush threaded PVC schedule 40 Flush threaded PVC schedule 80 Other

10. Screen Material: **PVC**
 a. screen type: Factory cut Continuous slot Other
 b. Manufacturer: **monoflex**
 c. Slot size: **Johnson Screens** **0.01** in.
 c. slotted length: _____ ft.

11. Backfill material (below filter pack): None Other

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
Rotasonic Other

15. Drilling fluid used: Water 2 Air 01
 Drilling Mud 3 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required): _____

E. Bentonite seal, top _____ ft. MSL **90.0** ft.

F. Fine sand, top _____ ft. MSL **96.0** ft.

G. Filter Pack, top _____ ft. MSL **98.0** ft.

H. Screen joint, top _____ ft. MSL **100.0** ft.

I. Well Bottom _____ ft. MSL **105.0** ft.

J. Filter Pack, bottom _____ ft. MSL **105.0** ft.

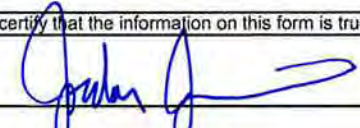
K. Borehole, bottom _____ ft. MSL **105.0** ft.

L. Borehole, diameter _____ In..

M. O.D. well casing _____ In..

N. I.D. well casing **2** In..

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name: **Former Newton Gravel Pit** Local Grid Location of Well: _____ Well Name: **PZ-26c**

Facility License, Permit or Monitoring No.: _____ Local Grid Origin (estimated:) or Well Location: _____ Wis. Unique Well No.: _____ DNR Well Id No.: _____

Facility ID: _____ Lat. _____ Long. _____ or _____ Date Well Installed: **11/03/2014**

Type of Well: _____ St. Plane: _____ ft N _____ ft E S/C/N _____ m m dd yyyy
 Section Location of Waste/Source: _____ Well Installed By: Name (first, last) and Firm: **Mark Biermaier Cascade**

Well Code: **1** Location of Well relative to Waste/Source: _____ Gov. Lot No.: _____

Distance from Waste/Source: _____ ft. Enf. Stds. Apply u Upgradient s Sidegradient
 d Downgradient n Not Known

A. Protective pipe, top elevation _____ ft. MSL Yes No
 B. Well casing, top elevation _____ ft. MSL
 C. Land surface elevation _____ ft. MSL
 D. Surface seal, bottom _____ Ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

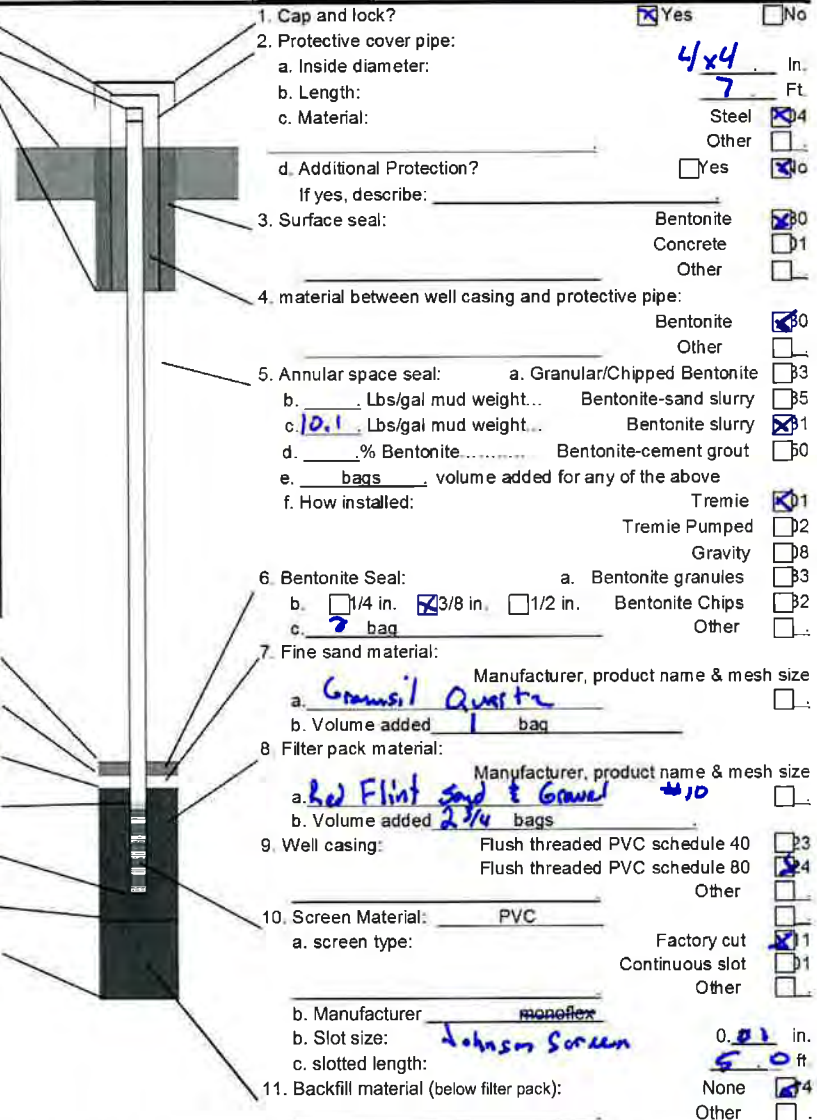
13. Sieve analysis performed? Yes No

14 Drilling method used: Rotary 50
 Hollow Stem Auger 41
Rotasonic Other

15 Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16 Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required): _____



E. Bentonite seal, top _____ ft. MSL **130.0** ft.
 F. Fine sand, top _____ ft. MSL **136** ft.
 G. Filter Pack, top _____ ft. MSL **198.0** ft.
 H. Screen joint, top _____ ft. MSL **140.0** ft.
 I. Well Bottom _____ ft. MSL **145.0** ft.
 J. Filter Pack, bottom _____ ft. MSL **145.0** ft.
 K. Borehole, bottom _____ ft. MSL **145.0** ft.
 L. Borehole, diameter _____ In..
 M. O.D. well casing _____ In..
 N. I.D. well casing **2** In..

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Signature]* Firm: **AECOM**
 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit	County Name Manitowoc	Well Name PZ-16A
Facility License, Permit or Monitoring Number	County Code 36	Wisconsin Unique Well Number
		DNR Well Number U0248

1. Can this well be purged dry? Yes No

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) 57.79 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 12 gal.

7. Volume of water removed from well 65 gal.

8. Volume of water added (if any) — gal.


9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>4.40</u> ft.	<u>4.40</u> ft.
Date	b. <u>10/03/2014</u> <small>m.m / d.d / y.y.y.y</small>	<u>11/03/2014</u> <small>m.m / d.d / y.y.y.y</small>
Time	c. <u>1020</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>1120</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>—</u> inches	<u>—</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	<u>—</u> mg/l	<u>—</u> mg/l
15. COD	<u>—</u> mg/l	<u>—</u> mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Jordan</u>	Last Name: <u>Junion</u>
Firm:	<u>AECOM</u>	

16. Additional comments on development:

$Volume = (DTB - DTW) * 0.163 + (N * H * Annulus\ space)$
 $(57.79 - 4.40) * 0.163 + (0.3 * 9 * 1.24)$
 $8.70 + 3.35 = 12.0\ gallons\ per\ well$

Name and Address of Facility Contact/Owner/Responsible Party	I hereby certify that the above information is correct and true to the best of my knowledge
First Name: _____ Last Name: _____	Signature: 
Facility/Firm: <u>City of Manitowoc</u>	Print Name: <u>Jordan Junion</u>
Street: _____	Firm: <u>AECOM</u>
City/State/Zip: _____	

NOTE: See instructions for more information including a list of county codes and well type codes

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit	County Name Manitowoc	Well Name PZ-#6B
Facility License, Permit or Monitoring Number	County Code 36	Wisconsin Unique Well Number
		DNR Well Number 00247

1. Can this well be purged dry? Yes No

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other

3. Time spent developing well _____ min.

4. Depth of well (from top of well casing) 87.40 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 16.9 gal.

7. Volume of water removed from well 40.0 gal.

8. Volume of water added (if any) NA gal.


9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>4.90</u> ft.	<u>23.21</u> ft.
Date	b. <u>11/03/2014</u> m.m/dd/yyyy	<u>11/03/2014</u> m.m/dd/yyyy
Time	c. <u>11:45</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>13:12</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Jordan</u>	Last Name: <u>Junior</u>
Firm:	<u>AECOM</u>	

16. Additional comments on development:

$(DTB - DTW) * 0.163 + (N * H * 1.24)$
 $(87.49 - 4.90) * 0.163 + (0.3 * 9 * 1.24) =$
 $13.5 \text{ gal} + 3.34 = 16.9$

Name and Address of Facility Contact/Owner/Responsible Party	I hereby certify that the above information is correct and true to the best of my knowledge
First Name: _____ Last Name: _____	Signature: 
Facility/Firm: <u>City of Manitowoc</u>	
Street: _____	
City/State/Zip: _____	
	Print Name: <u>Jordan Junior</u>
	Firm: <u>AECOM</u>

NOTE: See instructions for more information including a list of county codes and well type codes

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit	County Name Manitowoc	Well Name P2-#6C
Facility License, Permit or Monitoring Number	County Code 36	Wisconsin Unique Well Number
		DNR Well Number U0246

1. Can this well be purged dry? Yes No

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other _____

3. Time spent developing well 55 min.

4. Depth of well (from top of well casing) 106.50 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 19.72 gal.

7. Volume of water removed from well 50 gal.

8. Volume of water added (if any) _____ gal.


9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>6.00</u> ft.	_____ ft.
Date	b. <u>11/03/2014</u> m m / d d / y y y y	<u>11/03/2014</u> m m / d d / y y y y
Time	c. <u>1330</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>1425</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) _____	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Jordan</u>	Last Name: <u>Junior</u>
Firm:	<u>AECOM</u>	

16. Additional comments on development:

$(DTB - DTW) \times 0.163 + (N \times H \times 1.24) = \text{well volume}$
 $(106.50 - 6.00) \times 0.163 + (10.3 \times 9 \times 1.24) = \text{well volume}$
 $16.38 + 3.35 = 19.72 \text{ gallons}$

Name and Address of Facility Contact/Owner/Responsible Party	I hereby certify that the above information is correct and true to the best of my knowledge
First Name: _____ Last Name: _____	Signature: 
Facility/Firm: <u>City of Manitowoc</u>	Print Name: <u>Jordan Junior</u>
Street: _____	Firm: <u>AECOM</u>
City/State/Zip: _____	

NOTE: See instructions for more information including a list of county codes and well type codes

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit	County Name Manitowoc	Well Name WT-24
Facility License, Permit or Monitoring Number	County Code 36	Wisconsin Unique Well Number ← VO 239

1. Can this well be purged dry? Yes No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/>	41
surged with bailer and pumped	<input checked="" type="checkbox"/>	61
surged with block and bailed	<input type="checkbox"/>	42
surged with block and pumped	<input type="checkbox"/>	62
surged with block, bailed and pumped	<input type="checkbox"/>	70
compressed air	<input type="checkbox"/>	20
bailed only	<input type="checkbox"/>	10
pumped only	<input type="checkbox"/>	51
pumped slowly	<input type="checkbox"/>	50
Other	<input type="checkbox"/>	

3. Time spent developing well _____ min.

4. Depth of well (from top of well casing) 16.58 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing 5.7 gal.

7. Volume of water removed from well 26.5 gal.

8. Volume of water added (if any) 0 gal.

9. Source of water added N/A

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>5.85</u> ft.	_____ ft.
Date	b. <u>10/30/2014</u> m.m/dd/yyyy	<u>11/11/2014</u> m.m/dd/yyyy
Time	c. <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0</u> inches	<u>0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) _____	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	Last Name:	
Firm:	AECOM	

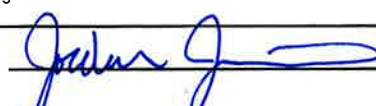
16. Additional comments on development:

$$\text{Volume} = (\text{D.I.B} - \text{DTW}) \times \text{vol/ft} + (N \times H \times \text{Annulus space}) = \text{well volume}$$

$$= (16.58 - 5.85) \times 0.16 + (0.3 \times 10.73 \times 1.24) =$$

$$1.71 + 3.99 = 5.7 \text{ gallons}$$

1) Removed 6 gallons on 10/30/14
 2) Removed 6.5 gallons 11/1/14
 3) DTW : 5.70 11/7/14 removed 6 gallons
 4) Removed 4 gallons 11/11/14

Name and Address of Facility Contact/Owner/Responsible Party	I hereby certify that the above information is correct and true to the best of my knowledge
First Name: _____ Last Name: _____	Signature: 
Facility/Firm: City of Manitowoc	Print Name: Jordan Junion
Street: _____	Firm: AECOM
City/State/Zip: _____	

NOTE: See instructions for more information including a list of county codes and well type codes

11/1/14 DTW = 5.96' (lowest turbidity 1056 NTU) Removed 6.5 gallons. Dry.
 11/7/14 DTW = 5.70' Removed 6 gallons. Dry

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit	County Name Manitowoc	Well Name P2-24 A
Facility License, Permit or Monitoring Number	County Code 36	Wisconsin Unique Well Number U0204

1. Can this well be purged dry? Yes No

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other _____

3. Time spent developing well 200 min. *New DTB*

4. Depth of well (from top of well casing) 55.15 ft. - 56.70

5. Inside diameter of well 20 in.

6. Volume of water in filter pack and well casing 11.23 gal.

7. Volume of water removed from well 52 gal.

8. Volume of water added (if any) NA gal.

9. Source of water added -

10. Analysis performed on water added? Yes No
(If yes, attach results)


	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>6.73</u> ft.	_____ ft.
Date	b. <u>10/30/2014</u> <small>m.m / d.d / y.y.y.y</small>	<u>10/30/2014</u> <small>m.m / d.d / y.y.y.y</small>
Time	c. <u>9:30</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>1330</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>1.55</u> inches	<u>0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Jordan</u>	Last Name: <u>Junior</u>
Firm:	<u>AECOM</u>	

16. Additional comments on development:

$$\text{Volume} = (\text{DTB} - \text{DTW}) \times 0.16 + (\text{NH} \times \pi \times \text{Annulus space})$$

$$= (55.15 - 6.73) \times 0.16 + (0.3 \times 9 \times 1.24)$$

$$7.89 + 3.34 = 11.238 \text{ gallons}$$

Name and Address of Facility Contact/Owner/Responsible Party	I hereby certify that the above information is correct and true to the best of my knowledge
First Name: _____ Last Name: _____	Signature: 
Facility/Firm: <u>City of Manitowoc</u>	Print Name: <u>Jordan Junior</u>
Street: _____	Firm: <u>AECOM</u>
City/State/Zip: _____	

NOTE: See instructions for more information including a list of county codes and well type codes

Route to: Watershed/Wastewater
 Remediation/Redevelopment
 Waste Management
 Other

Facility/Project Name Former Newton Gravel Pit	County Name Manitowoc	Well Name PZ-24B
Facility License, Permit or Monitoring Number	County Code 36	Wisconsin Unique Well Number ←
		DNR Well Number V0205

1. Can this well be purged dry? Yes No

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other _____

3. Time spent developing well _____ min.

4. Depth of well (from top of well casing) **86.55** ft.

5. Inside diameter of well **2.0** in.

6. Volume of water in filter pack and well casing **16.34** gal.

7. Volume of water removed from well _____ gal.

8. Volume of water added (if any) **NA** gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 6.75 ft.	_____ ft.
Date	b. 10/30/2014 m.m / d.d / y.y.y.y	_____ m.m / d.d / y.y.y.y
Time	c. 1345 <input checked="" type="checkbox"/> p.m.	_____ <input type="checkbox"/> a.m. / <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) _____	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) _____
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm	First Name: _____ Last Name: _____ Firm: AECOM	

16. Additional comments on development:

Volume = (DTB - DTW) * 0.163 + (N * H * Annulus Space)
(86.55 - 6.75) * 0.163 + 0.3 * 9 * 1.63
13.0 + 3.34 = 16.34 gallons

Purged 40 gallons on 10/30/14

Name and Address of Facility Contact/Owner/Responsible Party First Name: _____ Last Name: _____ Name: _____	I hereby certify that the above information is correct and true to the best of my knowledge
Facility/Firm: City of Manitowoc	Signature: _____
Street: _____	Print Name: Jordan Junion
City/State/Zip: _____	Firm: AECOM

NOTE: See instructions for more information including a list of county codes and well type codes

10.58
11/1/14 DTW = 6.70' (lowest turbidity 10.97 NTU) Removed 40 gallons
10/30/14

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit	County Name Manitowoc	Well Name P2-24c	
Facility License, Permit or Monitoring Number	County Code 36	Wisconsin Unique Well Number V0 240	DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other

3. Time spent developing well 90 min.

4. Depth of well (from top of well casing) 123.58 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing 22.4 gal.

7. Volume of water removed from well 65 gal.

8. Volume of water added (if any) - gal.

9. Source of water added -

10. Analysis performed on water added? Yes No
(If yes, attach results)


	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>6.75</u> ft.	_____ ft.
Date	b. <u>11/7/2014</u> m m / d d / y y y y	<u>11/7/2014</u> m m / d d / y y y y
Time	c. <u>1130</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>1300</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) _____	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Jordan</u>	Last Name: <u>Junior</u>
Firm:	<u>AECOM</u>	

16. Additional comments on development:

$$\text{Volume} = (DTB - DTW) \times 0.163 + (L \times H \times \text{Annular space})$$

$$= (123.58 - 6.75) \times 0.163 + (0.3 \times 9 \times 1.24)$$

$$19.03 + 3.34 = 22.37 \text{ gallons}$$

Name and Address of Facility Contact/Owner/Responsible Party	I hereby certify that the above information is correct and true to the best of my knowledge
First Name: _____ Last Name: _____	Signature: 
Facility/Firm: <u>City of Manitowoc</u>	Print Name: <u>Jordan Junior</u>
Street: _____	Firm: <u>AECOM</u>
City/State/Zip: _____	

NOTE: See instructions for more information including a list of county codes and well type codes

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit	County Name Manitowoc	Well Name WT-25
Facility License, Permit or Monitoring Number	County Code 36	Wisconsin Unique Well Number V0
		DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method

surged with bailer and bailed 41

surged with bailer and pumped 61

surged with block and bailed 42

surged with block and pumped 62

surged with block, bailed and pumped 70

compressed air 20

bailed only 10

pumped only 51

pumped slowly 50

Other

3. Time spent developing well 90 min.

4. Depth of well (from top of well casing) _____ ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing _____ gal.

7. Volume of water removed from well 55 gal.

8. Volume of water added (if any) NA gal.

9. Source of water added NA

10. Analysis performed on water added? Yes No
 (If yes, attach results) NA

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>8.18</u> ft.	_____ ft.
Date	b. <u>11/01/2014</u> m m / d d / y y y y	<u>11/01/2014</u> m m / d d / y y y y
Time	c. <u>14:28</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>1847-8</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) _____	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	<u>NA</u> mg/l	<u>NA</u> mg/l
15. COD	<u>NA</u> mg/l	<u>NA</u> mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>TORY</u>	Last Name: <u>SCHULTZ</u>
Firm:	<u>AECOM</u>	

16. Additional comments on development:

$$\text{Volume} = (\text{DTB} - \text{DTC}) \times \text{ID}^2 + (\text{N} \times \text{H} \times \text{Annulus Space})$$

$$22.09 - 8.18 \times 0.163 + (0.3 \times 12 \times 0.163)$$

2.3

Removed 35 gal. + 20 gal. = 55 gal.

Lowest turbidity 6.14 NTU

Name and Address of Facility Contact/Owner/Responsible Party	I hereby certify that the above information is correct and true to the best of my knowledge
First Name: _____ Last Name: _____	
Facility/Firm: <u>City of Manitowoc</u>	Signature: <u>Tory A. Schultz</u>
Street: _____	Print Name: <u>Jordan Junior TORY A. SCHULTZ</u>
City/State/Zip: _____	Firm: <u>AECOM</u>

NOTE: See instructions for more information including a list of county codes and well type codes

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit	County Name Manitowoc	Well Name PZ 25A	
Facility License, Permit or Monitoring Number	County Code 36	Wisconsin Unique Well Number V0208	DNR Well Number

1. Can this well be purged dry? Yes No
Recharges @ rate < 175 ml/min.

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other

3. Time spent developing well _____ min.

4. Depth of well (from top of well casing) _____ ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing _____ gal.

7. Volume of water removed from well 40 gal.

8. Volume of water added (if any) NA gal.

9. Source of water added NA

10. Analysis performed on water added? Yes No
 (If yes, attach results) NA

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>9.73</u> ft.	_____ ft.
Date	b. <u>11/01/2014</u> <small>m m / d d / y y y y</small>	<u>11/01/2014</u> <small>m m / d d / y y y y</small>
Time	c. <u>1828</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) _____	Clear <input type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	Last Name:	
Firm:	AECOM	

16. Additional comments on development:
 $Volume = (DTB - DTW) \times 0.163 + (N \times H \times 0.3 \times 9 \times 1.24)$
 $67.38 - 9.73 \times 0.163 + 0.3 \times 9 \times 1.24$
Removed 185 gallons or 11/1/14
Time 45 minutes + 25 gallons removed
Lowest turbidity 73.3 NTU

Name and Address of Facility Contact/Owner/Responsible Party	I hereby certify that the above information is correct and true to the best of my knowledge
First Name: _____ Last Name: _____	Signature: <u>Tory A. Schultz</u>
Facility/Firm: <u>City of Manitowoc</u>	Print Name: <u>Jordan Junion TORY A. SCHULTZ</u>
Street: _____	Firm: <u>AECOM</u>
City/State/Zip: _____	

NOTE: See instructions for more information including a list of county codes and well type codes

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit	County Name Manitowoc	Well Name P2-25B	
Facility License, Permit or Monitoring Number	County Code 36	Wisconsin Unique Well Number W0206	DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other _____

3. Time spent developing well _____ min.

4. Depth of well (from top of well casing) 94.20 ft.

5. Inside diameter of well _____ in.

6. Volume of water in filter pack and well casing 16.97 gal.

7. Volume of water removed from well _____ gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____


10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>10.60</u> ft.	_____ ft.
Date	b. <u>11/7/2014</u> m.m / d.d / y.y.y.y	<u>11/11/2014</u> m.m / d.d / y.y.y.y
Time	c. <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Jordan</u>	Last Name: <u>Junion</u>
Firm:	<u>AECOM</u>	

16. Additional comments on development:

(DTB-DTW) * 0.163 + (H*N + Annular space)
(94.20 - 10.60) * 0.163 + (9 * 0.3 + 1.24)
13.62 + 3.35 = 16.97 gallons

Removed 20 gal on 11/7/14
Removed 20 gal on 11/16/14

Name and Address of Facility Contact/Owner/Responsible Party	I hereby certify that the above information is correct and true to the best of my knowledge
First Name: _____ Last Name: _____	Signature: 
Facility/Firm: <u>City of Manitowoc</u>	Print Name: <u>Jordan Junion</u>
Street: _____	Firm: <u>AECOM</u>
City/State/Zip: _____	

NOTE: See instructions for more information including a list of county codes and well type codes

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit	County Name Manitowoc	Well Name PZ-25C
Facility License, Permit or Monitoring Number	County Code 36	Wisconsin Unique Well Number V0207
		DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other

3. Time spent developing well 55 min

4. Depth of well (from top of well casing) 117.71 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 19.68 gal.

7. Volume of water removed from well 40.0 gal.

8. Volume of water added (if any) — gal.

9. Source of water added —

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>17.45</u> ft.	<u>17.57</u> ft.
Date	b. <u>11/07/2014</u> m.m / dd / yyy y	<u>11/07/2014</u> m.m / dd / yyy y
Time	c. <u>1345</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>1440</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) _____	Clear <input type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Jordan</u>	Last Name: <u>Junion</u>
Firm:	<u>AECOM</u>	

16. Additional comments on development:

$(DTB-DTW) * 0.163 + (4 * N * 1.24) =$
 $(117.71 - 17.45) * 0.163 + (9 * 0.3 * 1.24) =$
16.34 + 3.34 = 19.68 gallons

Name and Address of Facility Contact/Owner/Responsible Party	I hereby certify that the above information is correct and true to the best of my knowledge
First Name: _____ Last Name: _____	Signature: _____
Facility/Firm: <u>City of Manitowoc</u>	Print Name: <u>Jordan Junion</u>
Street: _____	Firm: <u>AECOM</u>
City/State/Zip: _____	

NOTE: See instructions for more information including a list of county codes and well type codes

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit	County Name Manitowoc	Well Name WT-24
Facility License, Permit or Monitoring Number	County Code 36	Wisconsin Unique Well Number
		DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method

surged with bailer and bailed 41

surged with bailer and pumped 61

surged with block and bailed 42

surged with block and pumped 62

surged with block, bailed and pumped 70

compressed air 20

bailed only 10

pumped only 51

pumped slowly 50

Other _____

3. Time spent developing well _____ min.

4. Depth of well (from top of well casing) 36.21 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 7.30 gal.

7. Volume of water removed from well 1.8 gal.

8. Volume of water added (if any) - gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>22.40</u> ft.	<u>36.21</u> ft.
Date	b. <u>11/10/2014</u> m.m/dd/yyyy	<u>11/11/2014</u> m.m/dd/yyyy
Time	c. <u>1335</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>1045</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input type="checkbox"/> 15 (Describe) _____	Clear <input type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	Last Name:	
Firm:	AECOM	

16. Additional comments on development:

$(DTB - DTW) * 0.163 + (H * N * \text{Annulus space})$
 $(36.21 - 22.40) * 0.163 + (13.81 * 0.3 * 1.24)$
2.25 gal + 5.13 = 7.38 gallons/well volume

- 7 gallons on 11/4/14
 - DTW=24.0 11/10/14
 - removed 4 gallons
 - DTW on 11/11/14
 - 25.75 5 gallons removed

Name and Address of Facility Contact/Owner/Responsible Party	I hereby certify that the above information is correct and true to the best of my knowledge
First Name: _____ Last Name: _____	Signature: <u>Jordan Junion</u>
Facility/Firm: <u>City of Manitowoc</u>	Print Name: <u>Jordan Junion</u>
Street: _____	Firm: <u>AECOM</u>
City/State/Zip: _____	

NOTE: See instructions for more information including a list of county codes and well type codes

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit	County Name Manitowoc	Well Name PZ-26A
Facility License, Permit or Monitoring Number	County Code 36	Wisconsin Unique Well Number
		DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other _____

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) 77.86 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing 11.95 gal.

7. Volume of water removed from well 30 gal.

8. Volume of water added (if any) — gal.

9. Source of water added —

10. Analysis performed on water added? Yes No
(If yes, attach results)


	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>25.05</u> ft.	_____ ft.
Date	b. <u>11/04/2014</u> mm/dd/yyyy	<u>11/04/2014</u> mm/dd/yyyy
Time	c. <u>1400</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>1500</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0.04</u> inches	<u>0.00</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Jordan</u>	Last Name: <u>Junior</u>
Firm:	AECOM	

16. Additional comments on development:

$(DTB - DTW) \times 0.163 + (H \times N \times \text{Annulus space})$ $DTB = 77.90'$

$(77.86 - 25.05) \times 0.163 + (9 \times 0.3 \times 1.24)$ = gallons

8.6 + 3.35 = 11.95 gallons

Name and Address of Facility Contact/Owner/Responsible Party	I hereby certify that the above information is correct and true to the best of my knowledge
First Name: _____ Last Name: _____	Signature: 
Facility/Firm: <u>City of Manitowoc</u>	
Street: _____	
City/State/Zip: _____	
	Print Name: <u>Jordan Junior</u>
	Firm: <u>AECOM</u>

NOTE: See instructions for more information including a list of county codes and well type codes

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit	County Name Manitowoc	Well Name P2-26B
Facility License, Permit or Monitoring Number	County Code 36	Wisconsin Unique Well Number
		DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other

3. Time spent developing well _____ min.

4. Depth of well (from top of well casing) 107.42 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 16.9 gal.

7. Volume of water removed from well - gal.

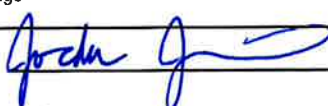
8. Volume of water added (if any) - gal.

9. Source of water added -

10. Analysis performed on water added? Yes No
 (If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>24.34</u> ft.	_____ ft.
Date	b. <u>11/11/2014</u> mm/dd/yyyy	_____ mm/dd/yyyy
Time	c. <u>1045</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	_____ a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Jordan</u>	Last Name: <u>Junior</u>
Firm:	<u>AECOM</u>	

16. Additional comments on development:
 (PTB-DTW) * 0.163 + N * H * Annulus space
 (107.42 - 24.34) * 0.163 + 0.3 * 9 * 1.24 =
 13.54 gallons + 3.35 gallons = 16.9 gallons

Name and Address of Facility Contact/Owner/Responsible Party	I hereby certify that the above information is correct and true to the best of my knowledge
First Name: _____ Last Name: _____	Signature: 
Facility/Firm: <u>City of Manitowoc</u>	Print Name: <u>Jordan Junior</u>
Street: _____	Firm: <u>AECOM</u>
City/State/Zip: _____	

NOTE: See instructions for more information including a list of county codes and well type codes

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Former Newton Gravel Pit	County Name Manitowoc	Well Name P2-26C	
Facility License, Permit or Monitoring Number	County Code 36	Wisconsin Unique Well Number	DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other _____

3. Time spent developing well 90 min.

4. Depth of well (from top of well casing) 147.18 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 21.6 gal.

7. Volume of water removed from well 65 gal.


8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>34.95</u> ft.	<u>36.21</u> ft.
Date	b. <u>11/10/2014</u> m.m / d.d / y.y y.y	<u>11/10/2014</u> m.m / d.d / y.y y.y
Time	c. <u>1200</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>1330</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) _____	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Jordan</u>	Last Name: <u>Junion</u>
Firm:	<u>AECOM</u>	

16. Additional comments on development:
 $(DTB - DTW) * 0.163 + (N * H * \text{Annulus space})$
 $(147.18 - 34.95) * 0.163 + (0.3) * 9 * 1.24 =$
 $18.29 + 3.35 = 21.64 \text{ gallons per well}$
 Removed 65 gallons

Name and Address of Facility Contact/Owner/Responsible Party	I hereby certify that the above information is correct and true to the best of my knowledge
First Name: _____ Last Name: _____	Signature: 
Facility/Firm: <u>City of Manitowoc</u>	Print Name: <u>Jordan Junion</u>
Street: _____	Firm: <u>AECOM</u>
City/State/Zip: _____	

NOTE: See instructions for more information including a list of county codes and well type codes

Attachment B:

Well Purging and Sample Collection Forms

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-01 Date Sampled: 11/13/14
 Previous Well Sampled: Start of Day

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

If Missing Replaced?

Ambient Temperature: 20 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 26.20 (from TPVC)
 Depth to Bottom: 31.30 (from TPVC)
 Length of Water: 5.10
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: See back of page for field readings during purge
 Volume Purged: 6.5 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 8:40 Time Ended: 9:15
 Decon Method: Alcorox w/ DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

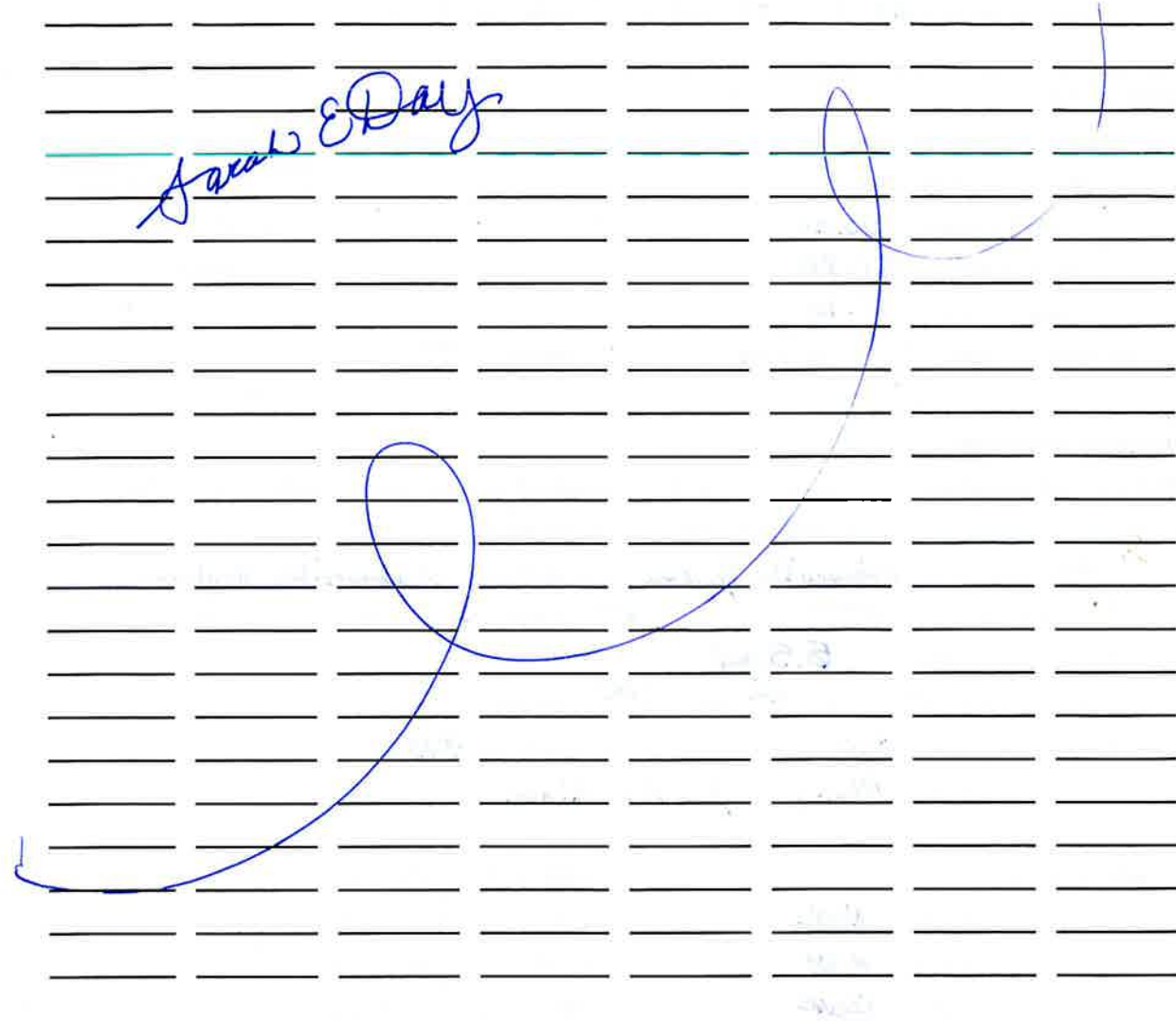
Well Purging Log

Well: WT-01

Date: 11/13/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
8:55	9.59	6.98	0.894	6.69	149.5	27.30	750
9:00	9.71	6.99	0.900	6.41	147.9	27.30	150
9:05	9.64	7.00	0.895	6.03	144.2	27.30	600
9:10	9.71	7.01	0.896	6.03	142.6	27.30	600
9:15	9.64	7.02	0.899	5.92	140.6	27.30	600
9:15	SAMPLE						

Good Day



Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: 72-01 Date Sampled: 1/13/14
 Previous Well Sampled: WT-01

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

If Missing Replaced?

Ambient Temperature: 25 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 26.80 (from TPVC)
 Depth to Bottom: 92.78 (from TPVC)
 Length of Water: 65.98
 Free Product Observed: Yes No Thickness: —

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: — See back of page for field readings during purge
 Volume Purged: 5.5 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 9:30 Time Ended: 9:55
 Decon Method: Alconex & DI Rinse

IN-SITU TESTING:

Turbidity: None
 Odor: None
 Color: Clear
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

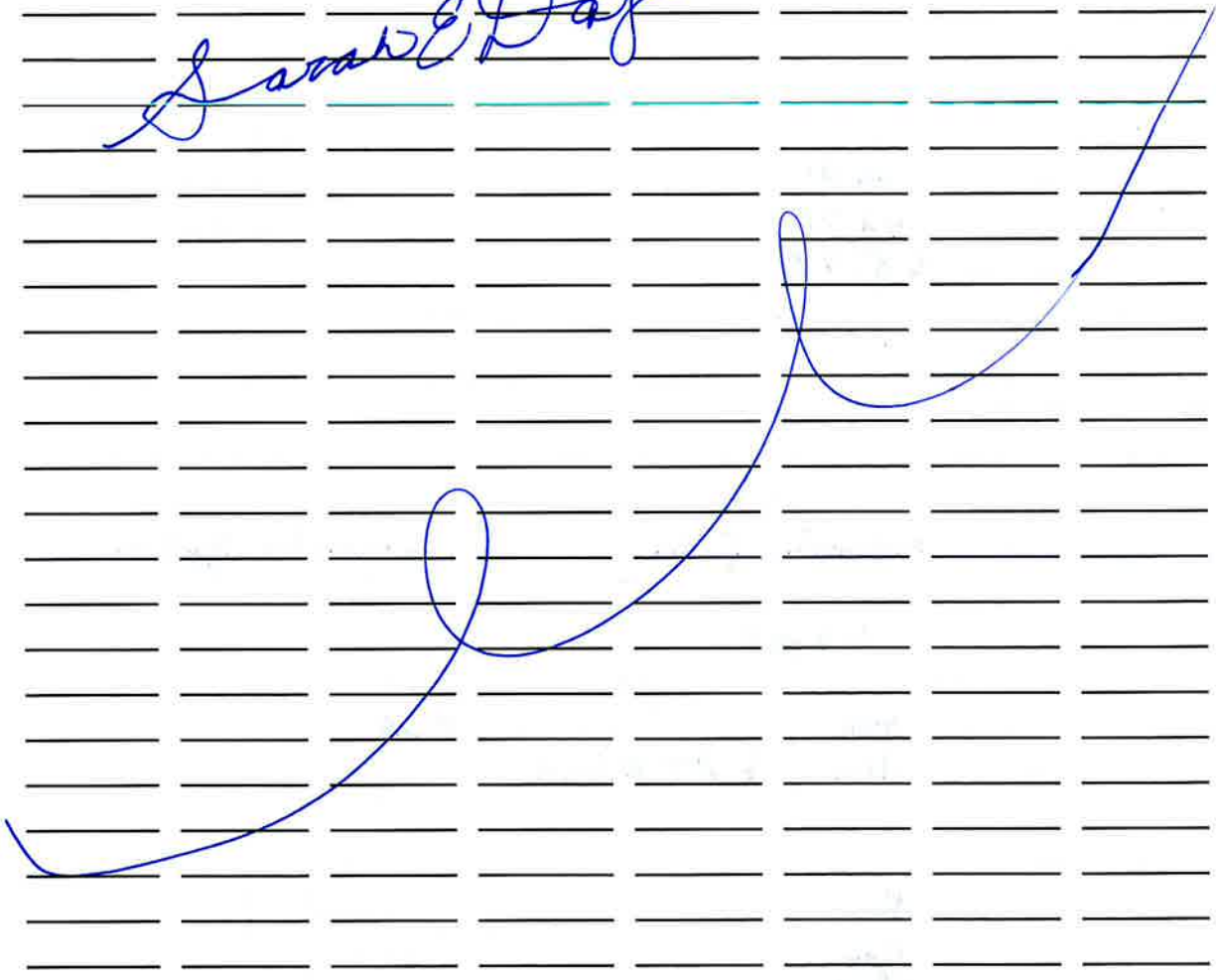
Well Purging Log

Well: PZ-01

Date: 11/13/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
9:30	8.97	7.68	0.630	6.58	4.1	27.70	675
9:35	9.13	7.54	0.631	0.53	-72.2	27.30	675
9:40	9.43	7.48	0.627	0.34	-81.4	27.30	600
9:45	9.50	7.49	0.628	0.30	-92.1	27.30	600
9:50	9.51	7.51	0.628	0.34	-95.1	27.30	600
9:55	9.57	7.48	0.620	0.29	-94.8	27.30	600
9:55	SAMPLE						

Sample Day



Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-02A Date Sampled: 11/19/14
 Previous Well Sampled: Start of Day

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

If Missing Replaced?

Ambient Temperature: 18 °F Clear Cloudy Rain Snow

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 50.95 (from TPVC)
 Depth to Bottom: 59.96 (from TPVC)
 Length of Water: 9.01
 Free Product Observed: Yes No Thickness: _____

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersable Typhoon Sampling Device: Submersable Typhoon
 Volume Required: _____ See back of page for field readings during purge
 Volume Purged: 12
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 815 Time Ended: 905
 Decon Method: Alconox 9:1 DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: YES
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: WT-02A

Date: 11/19/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
8:20	9.98	6.90	1.621	4.60	14.2	24.5	300
8:23	10.01	6.87	1.605	4.11	-12.8	24.35	600
8:26	10.05	6.87	1.565	3.64	-19.8	24.35	600
8:29	10.00	6.88	1.537	3.45	-25.9	24.35	600
8:32	10.07	6.88	1.488	3.14	-32.2	24.35	600
8:35	10.06	6.88	1.453	2.92	-36.1	24.35	600
8:39	10.00	6.88	1.436	2.73	-42.1	24.35	600
8:42	9.99	6.88	1.426	2.58	-45.2	24.35	600
8:45	10.04	6.89	1.416	2.51	-47.8	24.35	600
8:48	10.00	6.88	1.406	2.42	-49.9	24.35	600
8:51	10.09	6.88	1.387	2.32	-53.3	24.35	600
8:54	10.12	6.88	1.377	2.22	-55.4	24.35	600
8:58	10.14	6.88	1.365	2.13	-57.5	24.35	600
9:01	10.17	6.88	1.353	2.04	-59.1	24.35	600
9:04	10.16	6.88	1.358	2.07	-60.1	24.35	600
9:05	SAMPLE						

Sarah Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-02 Date Sampled: 11/18/14
 Previous Well Sampled: WT-17

GENERAL CONDITIONS:

Surface Seal: Ok Damaged Missing: Yes No
 Protector Pipe: Ok Damaged Missing: Yes No
 Well Cap: Ok Damaged Missing: Yes No

Ambient Temperature: 15 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 33.32 (from TPVC)
 Depth to Bottom: 88.93 (from TPVC)
 Length of Water: 55.61
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: See back of page for field readings during purge
 Volume Purged: 3
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 11:49 Time Ended: 12:35
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: P2-02

Date: 11/18/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1144	8.06	10.26	0.576	3.23	-22.2	34.38	400
1147	8.77	11.35	0.607	1.34	-79.7	34.38	600
1151	8.75	11.51	0.614	1.00	-88.2	34.38	600
1154	9.16	11.15	0.618	0.73	-95.2	34.38	600
1157	9.30	10.26	0.628	0.61	-92.5	34.38	600
1200	9.57	9.76	0.639	0.42	-95.7	34.38	600
1205	9.56	9.87	0.655	0.32	-105.8	34.38	600
1208	9.73	9.63	0.658	0.25	-92.6	34.38	600
1210	9.75	9.62	0.663	0.23	-95.5	34.38	600
1215	9.61	10.10	0.666	0.23	-91.9	34.38	600
1218	9.65	9.74	0.669	0.38	-110.0	34.38	600
1221	9.65	10.30	0.669	0.30	-109.6	34.38	600
1224	9.59	10.79	0.672	0.26	-106.7	34.38	600
1227	9.59	10.87	0.672	0.22	-107.2	34.38	600
1230	9.66	10.99	0.672	0.21	-111.3	34.38	600
1233	9.60	10.90	0.674	0.17	-114.6	34.38	600
1236	SAMPLE						

Same Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-08 Date Sampled: 11/18/14
 Previous Well Sampled: WT-13

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: 10 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 33.50 (from TPVC)
 Depth to Bottom: 36.01 (from TPVC)
 Length of Water: 2.51
 Free Product Observed: Yes No Thickness: —

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: — See back of page for field readings during purge
 Volume Purged: 4
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 8:30 Time Ended: 9:00
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: WT-08

Date: 11/18/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
8:34	8.01	7.23	0.730	8.83	63.7	32.78	300
8:38	7.87	7.17	0.732	8.32	64.1	32.78	300
8:42	7.06	7.13	0.741	8.20	63.4	32.78	300
8:45	7.90	7.10	0.712	8.00	62.1	32.78	600
8:48	9.50	7.09	0.728	7.81	64.5	32.78	600
8:51	9.54	7.08	0.732	7.89	67.4	32.78	600
8:54	9.49	7.09	0.733	7.66	68.3	32.78	600
8:57	8.75	7.08	0.739	7.65	68.1	32.78	600
9:00	7.80	7.08	0.733	7.67	66.5	32.78	600
9:00 SAMPLE							

Sarah E. Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-03 Date Sampled: 11/18/14
 Previous Well Sampled: WT

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: 12 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 32.30 (from TPVC)
 Depth to Bottom: 99.65 (from TPVC)
 Length of Water: 67.35
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: See back of page for field readings during purge
 Volume Purged: 5gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 915 Time Ended: 1015
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: PZ-03

Date: 11/18/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth	Purging
						to Water (ft. btoc)	Rate (ml/min)
917	7.20	12.07	0.608	3.02	-24.9	34.50	300
922	6.51	12.06	0.607	0.85	-29.8	34.50	300
925	6.35	12.11	0.605	0.74	-29.9	34.50	300
928	6.12	12.10	0.602	0.55	-25.6	34.50	300
931	5.80	11.93	0.606	0.48	-31.4	34.50	300
934	5.36	11.81	0.606	0.48	-25.0	34.50	300
937	4.57	11.18	0.612	0.46	-28.0	34.50	300
942	3.28	10.64	0.627	0.52	-30.4	34.50	300
945	3.20	10.27	0.623	0.61	-23.2	34.50	300
948	6.45	9.58	0.583	0.82	-43.5	34.50	300
951	6.88	9.30	0.588	0.72	-47.0	34.50	300
954	7.27	9.02	0.595	0.61	-40.7	34.50	300
957	7.28	8.75	0.604	0.45	-38.3	34.50	300
1000	7.89	8.53	0.599	0.51	-50.2	34.50	600
1003	8.09	8.36	0.604	0.43	-44.0	34.50	600
1006	7.86	8.26	0.614	0.38	-46.0	34.50	300
1009	7.83	8.18	0.613	0.30	-48.0	34.50	300
1012	7.62	8.11	0.616	0.27	-50.1	34.50	300

1015 SAMPLE

to

Sarah E Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WP-04 Date Sampled: 11/13/14
 Previous Well Sampled: WP-07

GENERAL CONDITIONS:

Surface Seal: Ok Damaged Missing: Yes No
 Protector Pipe: Ok Damaged Missing: Yes No
 Well Cap: Ok Damaged Missing: Yes No

Ambient Temperature: 27 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 4.60 (from TPVC)
 Depth to Bottom: 6.88 (from TPVC)
 Length of Water: 2.28
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: peristaltic pump Sampling Device: peristaltic pump
 Volume Required: See back of page for field readings during purge
 Volume Purged: 3 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1445 Time Ended: 1615
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Comments: Peristaltic Pump used due to small water column

Well Purging Log

Well: WP-04

Date: 11/13/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1450	7.26	7.39	0.790	0.95	0.4	4.90	400
1455	7.76	7.33	0.787	0.30	-14.9	4.90	400
1500	7.83	7.28	0.786	0.24	-16.7	4.90	400
1505	7.90	7.20	0.784	0.35	-41.3	4.90	400
1510	7.91	7.18	0.784	0.25	-42.4	4.90	400
1515	7.91	7.17	0.783	0.32	-42.0	4.90	400
1515	SAMPLE						

Sarah E. Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-05 Date Sampled: 11/17/14
 Previous Well Sampled: PZ-05A

GENERAL CONDITIONS:

Surface Seal: Ok Damaged Missing: Yes No
 Protector Pipe: Ok Damaged Missing: Yes No
 Well Cap: Ok Damaged Missing: Yes No

Ambient Temperature: 12 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 2.58 (from TPVC)
 Depth to Bottom: 20.93 (from TPVC)
 Length of Water: 18.35
 Free Product Observed: Yes No Thickness: _____

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Peristaltic Pump Sampling Device: Peristaltic Pump
 Volume Required: _____ See back of page for field readings during purge
 Volume Purged: 2.5
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1420 Time Ended: 1445
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: WT-05

Date: 11/17/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1423	8.09	7.36	0.734	2.73	-6.1	2.71	200
1426	8.40	7.31	0.748	1.20	0.3	2.71	200
1429	8.67	7.29	0.748	1.07	1.0	2.71	200
1432	8.75	7.27	0.751	0.90	2.3	2.71	200
1435	8.75	7.25	0.754	0.73	1.8	2.71	200
1438	8.81	7.23	0.756	0.62	1.7	2.71	200
1441	8.89	7.21	0.755	0.51	0.8	2.71	200
1444	8.81	7.21	0.758	0.43	-0.3	2.71	200
1445	SAMPLE						

Sarah E Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-05A Date Sampled: 11/17/14
 Previous Well Sampled: PZ-05B

GENERAL CONDITIONS:

Surface Seal: Ok Damaged Missing: Yes No
 Protector Pipe: Ok Damaged Missing: Yes No
 Well Cap: Ok Damaged Missing: Yes No

Ambient Temperature: 12 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 3.04 (from TPVC)
 Depth to Bottom: 40.40 (from TPVC)
 Length of Water: 37.36
 Free Product Observed: Yes No Thickness: _____

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Peristaltic Pump Sampling Device: Peristaltic Pump
 Volume Required: _____ See back of page for field readings during purge
 Volume Purged: 2.5 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1353 Time Ended: 1415
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: P2-05A

Date: 11/17/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1407	7.22	7.41	0.692	1.26	-4.5	3.21	250
1407	7.70	7.34	0.696	0.88	-7.1	3.21	250
1404		7.31	0.697	0.81	-9.4	3.21	250
1407		7.30	0.700	0.69	-12.7	3.21	250
1412	7.11	7.29	0.699	0.58	-15.9	3.21	250
1415	8.03	7.29	0.699	0.60	-16.6	3.21	250
1415	SAMPLE						

Sarah E Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-05B Date Sampled: 11/17/14
 Previous Well Sampled: WT-15

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

If Missing Replaced?

Ambient Temperature: 12 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 2.60 (from TPVC)
 Depth to Bottom: 60.91 (from TPVC)
 Length of Water: 58.31
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Peristaltic Pump Sampling Device: Peristaltic Pump
 Volume Required: See back of page for field readings during purge
 Volume Purged: 2 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1325 Time Ended: 1350
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: D2-05B

Date: 11/17/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1327	6.46	7.60	0.652	2.07	36.8	4.54	250
1330	6.70	7.58	0.655	1.79	26.2	4.78	250
1333	7.22	7.55	0.655	1.33	13.8	5.02	250
1336	7.62	7.53	0.653	1.10	4.3	5.16	250
1339	7.76	7.53	0.654	0.79	-1.4	5.18	250
1342	7.83	7.50	0.655	0.60	-1.7	5.20	250
1346	7.92	7.52	0.656	0.53	-3.0	5.20	250
1350	SAMPLE						

Sarah E Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WP-06 Date Sampled: 11/17/14
 Previous Well Sampled: Start of Day

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: 10 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 16.10 (from TPVC)
 Depth to Bottom: 18.60 (from TPVC)
 Length of Water: 2.50
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Peristaltic Pump Sampling Device: Peristaltic Pump
 Volume Required: See back of page for field readings during purge
 Volume Purged: 3 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 9:30 Time Ended: 9:55
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: WP-06

Date: 11/17/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
938	7.46	7.62	0.665	3.53	233.3	16.20	250
941	7.55	7.33	0.668	2.60	240.4	16.20	250
945	7.67	7.32	0.668	2.47	243.1	16.20	250
948	7.71	7.32	0.669	2.50	244.9	16.20	250
951	7.80	7.30	0.668	2.53	252.0	16.20	250
954	7.78	7.30	0.668	2.60	254.7	16.20	250
955	SAMPLE						

Sarah E Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WP-07 Date Sampled: 11/13/14
 Previous Well Sampled: P2-26A

GENERAL CONDITIONS:

Surface Seal: Ok Damaged Missing: Yes No
 Protector Pipe: Ok Damaged Missing: Yes No
 Well Cap: Ok Damaged Missing: Yes No

Ambient Temperature: 28°F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 11.20 (from TPVC)
 Depth to Bottom: 12.52 (from TPVC)
 Length of Water: 1.32
 Free Product Observed: Yes No Thickness: ←

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Peristaltic Pump Sampling Device: Peristaltic Pump
 Volume Required: _____ See back of page for field readings during purge
 Volume Purged: 4 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1400 Time Ended: 1435
 Decon Method: Alconox 3 DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Comments: Peristaltic Pump used due to small water column

Well Purging Log

Well: WOP-07

Date: 11/13/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1405	9.58	7.48	0.854	1.62	-32.9	11.20	450
1410	9.97	7.34	0.804	1.69	-38.6	11.20	450
1415	10.04	7.28	0.790	1.41	-34.7	11.23	450
1420	10.12	7.22	0.776	1.34	-34.8	11.23	450
1425	10.23	7.17	0.767	0.94	-34.0	11.23	450
1430	10.06	7.19	0.761	1.07	-40.4	11.23	450
1435	9.95	7.15	0.756	0.93	-38.2	11.23	450
1435	SAMPLE						

Sarah E Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-10 Date Sampled: 11/18/14
 Previous Well Sampled: PZ-02

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

If Missing Replaced?

Ambient Temperature: 15 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 41.45 (from TPVC)
 Depth to Bottom: 48.33 (from TPVC)
 Length of Water: 6.88
 Free Product Observed: Yes No Thickness: —

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: — See back of page for field readings during purge
 Volume Purged: 5
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1255 Time Ended: 1325
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: YES
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: WT-10

Date: 11/18/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1259	9.09	11.08	1.015	0.86	-133.5	42.50	450
1303	9.33	10.62	0.993	0.61	-145.1	42.50	450
1306	9.47	11.41	0.985	0.54	-148.8	42.25	450
1309	9.64	11.22	0.979	0.56	-149.0	42.25	300
1312	9.71	10.45	0.976	0.52	-146.2	42.25	300
1315	9.79	10.27	0.974	0.49	-144.8	42.25	300
1318	9.76	10.19	0.972	0.42	-140.2	42.25	300
1321	9.69	10.22	0.965	0.39	-150.3	42.25	300
1325 - SAMPLE							

A handwritten signature in blue ink is written across the middle of the table. A large, sweeping diagonal line in blue ink starts from the bottom left and extends towards the top right, crossing through the signature and the lower portion of the table.

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-11 Date Sampled: 11/17/14
 Previous Well Sampled: WT-12

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: 10 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 4.01 (from TPVC)
 Depth to Bottom: 15.21 (from TPVC)
 Length of Water: 19.20
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Peristaltic Pump Sampling Device: Peristaltic Pump
 Volume Required: See back of page for field readings during purge
 Volume Purged: 2 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1115 Time Ended: 1130
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

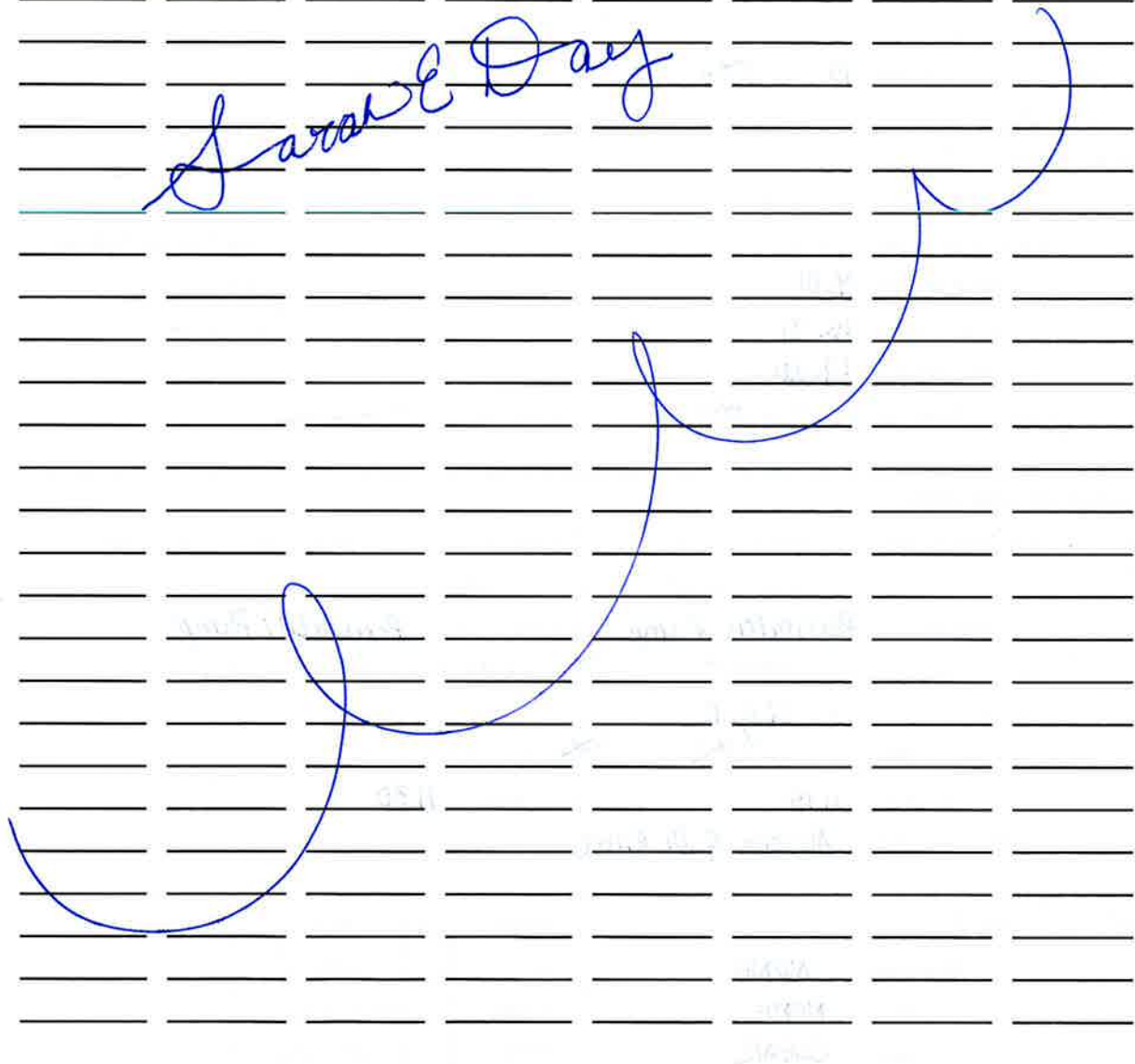
Well Purging Log

Well: WF-11

Date: 11/17/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1118	8.95	7.26	0.755	0.60	44.9	4.12	250
1121	9.08	7.21	0.758	0.38	40.0	4.12	250
1124	8.93	7.18	0.765	0.28	36.2	4.12	250
1127	8.99	7.15	0.764	0.25	39.7	4.12	250
1130	9.05	7.14	0.763	0.21	42.1	4.12	250
1130	SAMPLE						

Sample Day



Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-12 Date Sampled: 11/17/14
 Previous Well Sampled: P2-12

GENERAL CONDITIONS:

Surface Seal: Ok Damaged Missing: Yes No
 Protector Pipe: Ok Damaged Missing: Yes No
 Well Cap: Ok Damaged Missing: Yes No

Ambient Temperature: 10 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 4.18 (from TPVC)
 Depth to Bottom: 15.26 (from TPVC)
 Length of Water: 11.08
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Peristaltic Pump Sampling Device: Peristaltic Pump
 Volume Required: See back of page for field readings during purge
 Volume Purged: 2.5 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1045 Time Ended: 1105
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: LOT-12

Date: 11/17/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1045	7.68	7.24	0.675	2.00	58.4	4.38	250
1049	7.84	7.21	0.681	0.96	64.7	4.38	250
1052	8.11	7.18	0.680	0.70	65.7	4.38	250
1055	8.42	7.16	0.673	0.62	64.1	4.38	250
1058	8.55	7.15	0.674	0.51	60.1	4.38	250
1101	8.63	7.15	0.672	0.49	62.4	4.38	250
1104	8.54	7.15	0.674	0.49	66.5	4.38	250
1105	SAMPLE						

Sarah E. Day

Comments: Duplicate Collected

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: P2-12 Date Sampled: 11/17/14
 Previous Well Sampled: WP-06

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: 10 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 3.68 (from TPVC)
 Depth to Bottom: 27.34 (from TPVC)
 Length of Water: 23.66
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Peristaltic Pump Sampling Device: Peristaltic Pump
 Volume Required: See back of page for field readings during purge
 Volume Purged: 3 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 10:10 Time Ended: 1040
 Decon Method: Alconox & DI RINSE

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: P2-12

Date: 11/17/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1020	7.40	7.37	0.707	1.19	110.4	3.78	250
1023	7.59	7.31	0.718	0.57	66.7	3.75	250
1026	7.86	7.26	0.719	0.51	56.6	3.75	250
1029	7.85	7.22	0.723	0.37	39.3	3.75	250
1032	7.89	7.19	0.725	0.28	32.5	3.75	250
1035	7.93	7.17	0.724	0.28	30.7	3.75	250
1038	8.01	7.17	0.725	0.25	30.2	3.75	250
1040	SAMPLE						

Sarah E Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-13 Date Sampled: 11/18/14
 Previous Well Sampled: Start of Day

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: 10 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 11.39 (from TPVC)
 Depth to Bottom: 16.38 (from TPVC)
 Length of Water: 4.99
 Free Product Observed: Yes No Thickness: —

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Peristaltic Pump Sampling Device: Peristaltic Pump
 Volume Required: — See back of page for field readings during purge
 Volume Purged: 2 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 8:00 Time Ended: 8:15
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: WT-13

Date: 11/18/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
8:04	9.11	7.52	0.402	8.15	60.7	11.52	250
8:07	9.25	7.45	0.400	8.05	64.6	11.52	250
8:10	9.30	7.46	0.400	7.97	66.7	11.52	250
8:15	9.50	7.47	0.399	7.98	67.9	11.52	250
8:15 SAMPLE							

Sarah & Day



Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-15 Date Sampled: 11/17/14
 Previous Well Sampled: PZ-15 B

GENERAL CONDITIONS:

Surface Seal: Ok Damaged Missing: Yes No
 Protector Pipe: Ok Damaged Missing: Yes No
 Well Cap: Ok Damaged Missing: Yes No

Ambient Temperature: 12 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 2.71 (from TPVC)
 Depth to Bottom: 12.23 (from TPVC)
 Length of Water: 9.52
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Peristaltic Pump Sampling Device: Peristaltic Pump
 Volume Required: See back of page for field readings during purge
 Volume Purged: 2 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1258 Time Ended: 1315
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: WT-15

Date: 11/17/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1257	7.19	7.31	0.664	4.35	76.4	2.76	200
1300	7.14	7.31	0.674	3.57	78.1	2.76	200
1305	7.51	7.28	0.675	3.18	76.7	2.76	200
1309	7.65	7.25	0.675	3.18	70.4	2.76	200
1312	7.66	7.25	0.675	3.09	70.4	2.76	200
1315	SAMPLE						

Sarah E Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-15A Date Sampled: 11/17/14
 Previous Well Sampled: WT-11

GENERAL CONDITIONS:

Surface Seal: Ok Damaged Missing: Yes No
 Protector Pipe: Ok Damaged Missing: Yes No
 Well Cap: Ok Damaged Missing: Yes No

Ambient Temperature: 12 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 2.45 (from TPVC)
 Depth to Bottom: 27.40 (from TPVC)
 Length of Water: 24.95
 Free Product Observed: Yes No Thickness: _____

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Peristaltic Pump Sampling Device: Peristaltic Pump
 Volume Required: _____ See back of page for field readings during purge
 Volume Purged: 25gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 11:40 Time Ended: 12:05
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: PZ-15A

Date: 11/17/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
104 1146	7.76	7.34	0.678	2.80	73.2	2.78	200
1149	8.01	7.28	0.681	2.47	71.9	2.78	250
1152	8.12	7.25	0.683	2.29	72.6	2.78	250
1155	8.17	7.25	0.684	2.25	72.0	2.78	250
1158	8.25	7.23	0.684	2.26	70.9	2.78	250
1201	8.33	7.23	0.685	2.16	71.1	2.78	250
1204	8.40	7.22	0.686	2.15	70.1	2.78	250
1205	SAMPLE						

Sarah E Day

Comments: Kink in the PVC

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-15B Date Sampled: 11/17/14
 Previous Well Sampled: PZ-15A

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: 12 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 2.40 (from TPVC)
 Depth to Bottom: 37.00 (from TPVC)
 Length of Water: 34.60
 Free Product Observed: Yes No Thickness: —

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Peristaltic Pump Sampling Device: Peristaltic Pump
 Volume Required: — See back of page for field readings during purge
 Volume Purged: 4.5 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1215 Time Ended: 1250
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: P2-15B

Date: 11/17/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1216	7.90	7.37	0.691	1.9 2.32	68.1	2.46	250
1219	7.92	7.31	0.697	2.20	67.6	2.46	250
1222	8.02	7.25	0.702	1.67	67.1	2.46	250
1225	8.05	7.23	0.704	1.62	65.3	2.46	250
1228	8.09	7.22	0.704	1.53	64.7	2.46	250
1231	8.05	7.22	0.707	1.45	64.1	2.46	250
1234	7.99	7.21	0.709	1.38	64.3	2.46	250
1237	8.01	7.21	0.710	1.30	63.1	2.46	250
1241	8.05	7.21	0.710	1.48	61.8	2.46	250
1244	7.94	7.22	0.712	1.40	62.6	2.46	250
1247	7.99	7.22	0.712	1.36	62.6	2.46	250
1250	7.98	7.22	0.711	1.29	63.1	2.46	250
1250	SAMPLE						

Sarah E Day

Comments: kink in the PVC casing.

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-16 Date Sampled: 11/12/14
 Previous Well Sampled: WT-23

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

If Missing Replaced?

Ambient Temperature: °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 4.41 (from TPVC)
 Depth to Bottom: 14.00 (from TPVC)
 Length of Water: 9.59
 Free Product Observed: Yes No Thickness: —

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: — See back of page for field readings during purge
 Volume Purged: 4 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 12:00 Time Ended: 12:15
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: None
 Odor: None
 Color: Clear
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: WT-16

Date: 11/12/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
12:00	9.70	7.56	0.723	1.28	-62.0	4.51	750
12:05	9.92	7.43	0.721	0.60	-71.3	4.51	750
12:10	9.86	7.39	0.721	0.46	-64.1	4.51	750
12:15	9.79	7.37	0.721	0.43	-49.1	4.51	600
12:15	SAMPLE						

Sample E.P. Log



Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WJ PZ-16 Date Sampled: 11/12/14
 Previous Well Sampled: WT-16

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

If Missing Replaced?

Ambient Temperature: °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 4.59 (from TPVC)
 Depth to Bottom: 26.55 (from TPVC)
 Length of Water: 21.96
 Free Product Observed: Yes No Thickness: —

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: — See back of page for field readings during purge
 Volume Purged: 6 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 12:25 Time Ended: 12:50
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-16A Date Sampled: 11/12/14
 Previous Well Sampled: PZ-16

GENERAL CONDITIONS:

Surface Seal: Ok Damaged Missing: Yes No
 Protector Pipe: Ok Damaged Missing: Yes No
 Well Cap: Ok Damaged Missing: Yes No

Ambient Temperature: _____ °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 4.30 (from TPVC)
 Depth to Bottom: 57.80 (from TPVC)
 Length of Water: 53.50
 Free Product Observed: Yes No Thickness: _____

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: _____ See back of page for field readings during purge
 Volume Purged: 4 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1305 Time Ended: 13:25
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

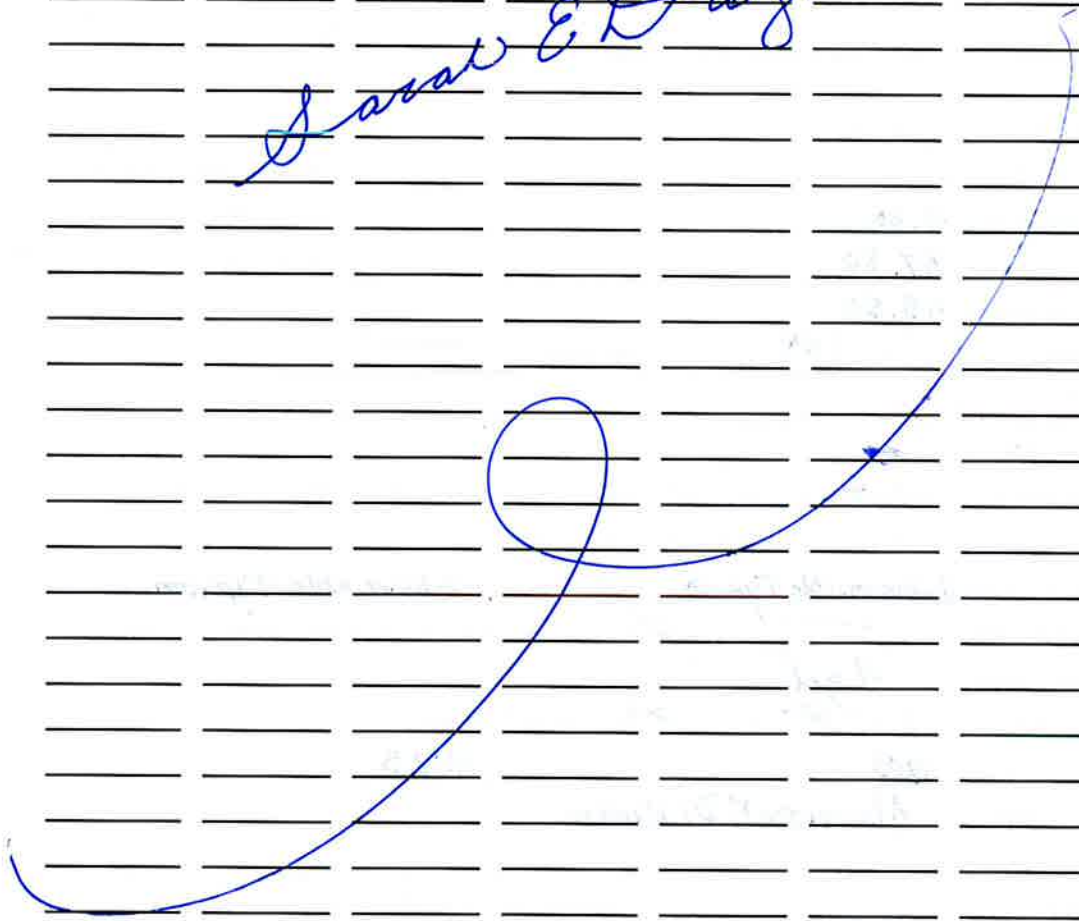
Well Purging Log

Well: P2-16A

Date: 11/12/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
13:05	8.66	7.78	0.570	3.37	-133.5	4.40	850
13:10	8.23	7.58	0.679	0.59	-162.6	4.40	300
13:15	7.51	7.55	0.685	0.37	-177.7	4.40	300
13:20	7.15	7.55	0.686	0.36	-181.9	4.40	300
13:25	6.97	7.54	0.686	0.45	-185.6	4.40	300
13:25	SAMPLE						

Sarah E. Day



Comments: Dup collected

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-16B Date Sampled: 11/12/14
 Previous Well Sampled: PZ-16A

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

If Missing Replaced?

Ambient Temperature: _____ °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T

Stick Up or Down: Stick Up (from Ground Surface)

Depth to Water: 5.30 (from TPVC)

Depth to Bottom: 87.40 (from TPVC)

Length of Water: 82.10

Free Product Observed: Yes No Thickness: —

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon

Volume Required: — See back of page for field readings during purge

Volume Purged: 5gal

Could Well Bail Dry? Yes No Low Flow Technique

Purging - Time Start: 1345 Time Ended: 1425

Decon Method: Alconox 3 DI Rinse

IN-SITU TESTING:

Turbidity: NONE

Odor: NONE

Color: CLEAR

pH: _____

Specific Conductivity: _____

Water Temperature: _____

Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

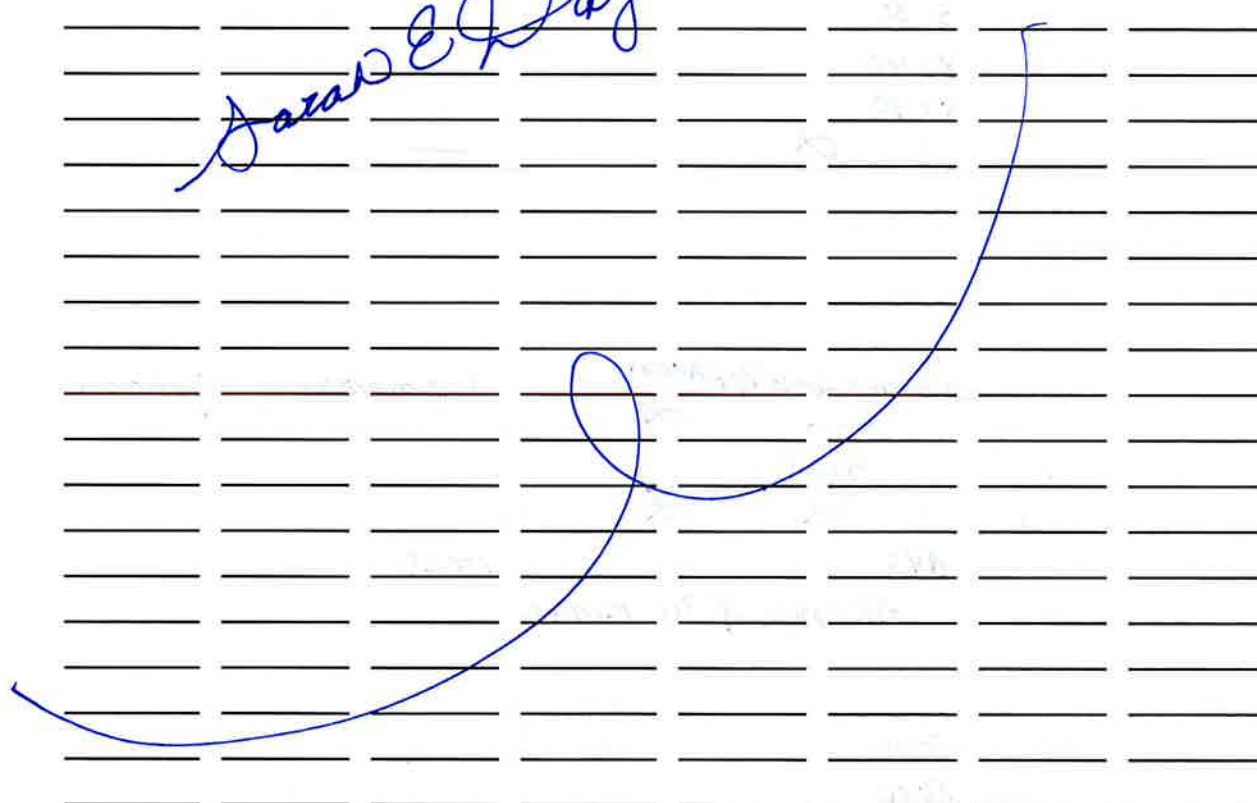
Well Purging Log

Well: P2-16B

Date: 11/12/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1345	8.46	7.89	0.542	2.77	-208.5	6.50	470
1350	8.49	7.87	0.555	2.36	-209.8	6.90	470
1355	8.53	7.81	0.611	2.16	-214.5	6.80	470
1400	8.43	7.73	0.640	0.51	-210.1	6.37	470
1405	8.02	7.67	0.663	0.37	-192.1	6.03	470
1410	7.62	7.65	0.661	0.39	-190.1	6.03	470
1415	7.98	7.64	0.659	0.33	-173.0	6.03	470
1420	8.11	7.64	0.663	0.32	-157.4	6.03	470
1425	8.36	7.64	0.666	0.27	-159.4	6.03	470
1425	SAMPLE						

Jason E. Ray



Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-16C Date Sampled: 11/12/14
 Previous Well Sampled: PZ-16B

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 6.11 (from TPVC)
 Depth to Bottom: 106.88 (from TPVC)
 Length of Water: 100.77
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersable Typhoon Sampling Device: Submersable Typhoon
 Volume Required: See back of page for field readings during purge
 Volume Purged: 10 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 14:45 Time Ended: 1520
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

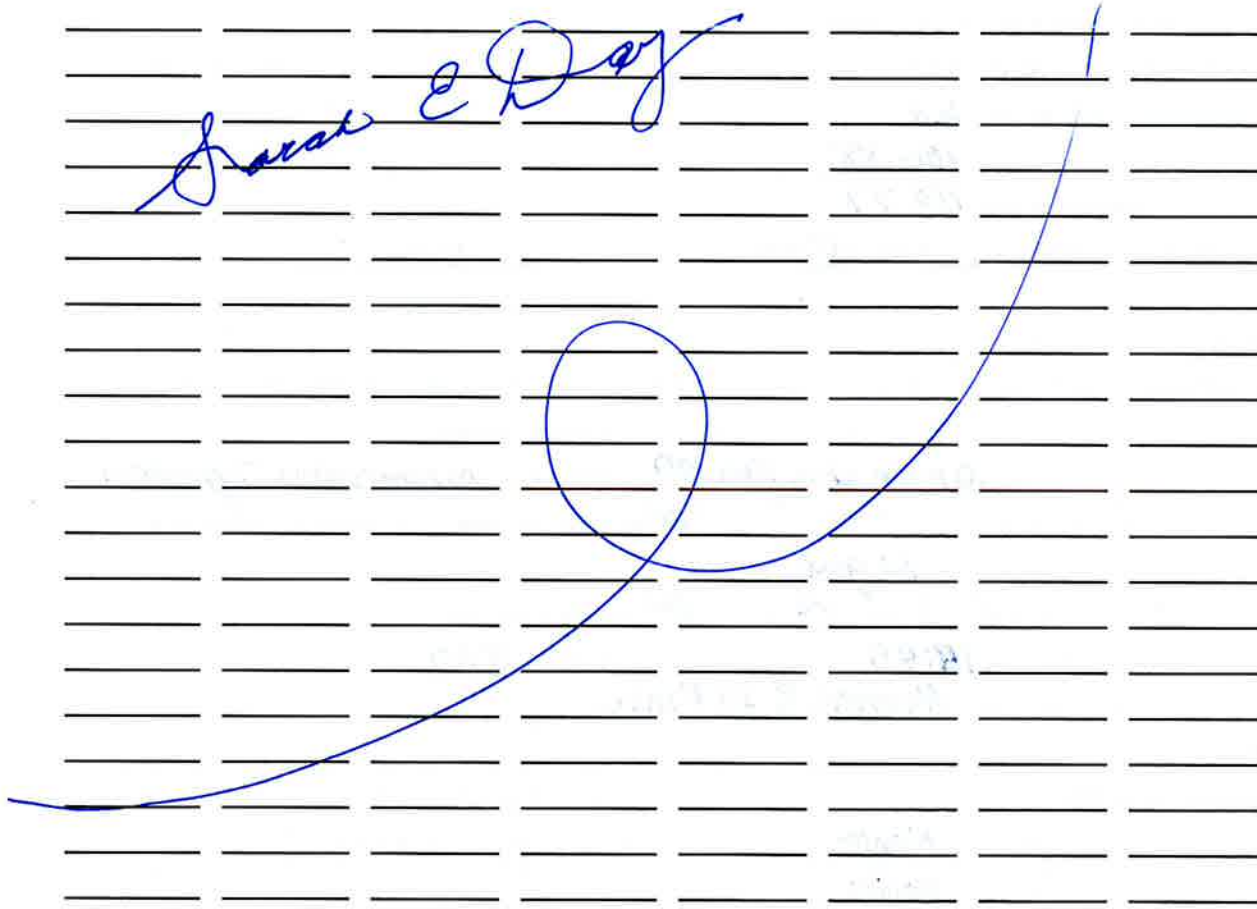
Well Purging Log

Well: P2-16C

Date: 11/12/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1445	8.58	8.18	0.471	10.51	-149.6	6.60	600
1450	8.78	7.97	0.524	1.30	-121.5	6.40	600
1455	9.04	7.79	0.546	0.62	-86.4	6.40	600
1500	8.86	7.73	0.556	0.26	-83.2	6.40	600
1505	8.90	7.73	0.556	0.28	-74.8	6.40	600
1510	8.89	7.73	0.557	0.26	-73.5	6.40	600
1515	8.95	7.73	0.557	0.26	-77.0	6.40	600
1520	8.97	7.72	0.558	0.27	-71.8	6.40	600
1520	SAMPLE						

David E. Day



Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-17 Date Sampled: 11/18/14
 Previous Well Sampled: PZ-03

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: 12 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 32.75 (from TPVC)
 Depth to Bottom: 38.83 (from TPVC)
 Length of Water: 6.08
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersable Typhoon Sampling Device: Submersable
 Volume Required: See back of page for field readings during purge
 Volume Purged: 4.5 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1100 Time Ended: 1125
 Decon Method: Alconox & DI rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: WT-17

Date: 11/18/19

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1103	8.17	7.42	0.664	6.23	7.5	32.96	300
1108	8.33	7.09	0.669	5.87	19.7	32.96	300
1113	8.55	7.05	0.669	5.76	21.7	32.96	300
1116	8.89	7.05	0.672	5.59	20.9	32.96	300
1119	8.95	7.05	0.675	5.54	20.3	32.96	300
1122	9.16	7.06	0.675	5.73	22.0	32.96	300
1125	9.62	7.06	0.677	5.68	22.0	32.96	300
1125	SAMPLE						

David E Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-1P Date Sampled: 11/18/14
 Previous Well Sampled: WT-10

GENERAL CONDITIONS:

Surface Seal: Ok Damaged Missing: Yes No
 Protector Pipe: Ok Damaged Missing: Yes No
 Well Cap: Ok Damaged Missing: Yes No

Ambient Temperature: 15 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 45.40 (from TPVC)
 Depth to Bottom: 51.78 (from TPVC)
 Length of Water: 6.38
 Free Product Observed: Yes No Thickness: _____

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersable Typhoon Sampling Device: Submersable Typhoon
 Volume Required: _____ See back of page for field readings during purge
 Volume Purged: 4 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1335 Time Ended: 1400
 Decon Method: Alconox #DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: YES
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: WT-18

Date: 11/18/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1338	9.03	11.14	1.313	0.47	-103.5	45.99	375
1341	9.26	10.10	1.359	0.20	-111.6	45.99	375
1344	9.43	11.10	1.371	0.23	-114.0	45.99	375
1347	9.60	11.05	1.358	0.21	-116.1	46.02	375
1350	9.85	10.35	1.331	0.20	-120.6	46.02	375
1353	10.00	10.61	1.307	0.20	-121.6	46.02	375
1356	9.81	10.41	1.295	0.17	-122.6	46.02	375
1359	10.00	10.37	1.271	0.18	-123.2	46.02	375
1400	SAMPLE						

Sarah E Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-19 Date Sampled: 11/19/14
 Previous Well Sampled: WT-02A

GENERAL CONDITIONS: If Missing Replaced?

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing: Yes	<input type="checkbox"/> No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing: Yes	<input type="checkbox"/> No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing: Yes	<input type="checkbox"/> No

Ambient Temperature: 18 °F Clear Cloudy Rain snow

WELL DATA:

Measuring Device: Heron Dipper T

Stick Up or Down: Stick Up (from Ground Surface)

Depth to Water: 15.53 (from TPVC)

Depth to Bottom: 21.34 (from TPVC)

Length of Water: 5.81

Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Peristaltic Pump Sampling Device: Peristaltic Pump

Volume Required: _____ See back of page for field readings during purge

Volume Purged: _____

Could Well Bail Dry? Yes No Low Flow Technique

Purging - Time Start: _____ Time Ended: _____

Decon Method: Alconox & DI Rinse

IN-SITU TESTING:	SAMPLES COLLECTED
Turbidity: _____	VOCs - <input checked="" type="checkbox"/> Cyanide <input type="checkbox"/>
Odor: _____	Metals - <input type="checkbox"/> Hexchrome <input type="checkbox"/>
Color: _____	SVOC <input type="checkbox"/> Alkalinity <input type="checkbox"/>
pH: _____	TOC <input type="checkbox"/> Chloride <input type="checkbox"/>
Specific Conductivity: _____	Sulfide <input type="checkbox"/> Ammonia <input type="checkbox"/>
Water Temperature: _____	Phenolics <input type="checkbox"/> PAHs <input type="checkbox"/>
Comments: _____	

Well Purging Log

Well: WT-19

Date: 11/19/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
925	7.80	7.43	0.723	9.37	-65.5	15.53	250
930	8.54	7.22	0.735	0.77	-65.2	15.53	250
933	8.98	7.17	0.722	0.61	-60.5	15.53	250
936	9.36	7.13	0.726	0.44	-63.5	15.53	250
941	9.84	7.03	0.740	0.64	-62.7	15.53	250
944	9.69	7.00	0.750	0.47	-64.0	15.53	250
947	9.68	6.99	0.755	0.52	-65.1	15.53	250
950	SAMPLE						

Sarah E. Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-20 Date Sampled: 11/12/14
 Previous Well Sampled: WT-21

GENERAL CONDITIONS:

Surface Seal: Ok Damaged Missing: Yes No
 Protector Pipe: Ok Damaged Missing: Yes No
 Well Cap: Ok Damaged Missing: Yes No

Ambient Temperature: °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 3.91 (from TPVC)
 Depth to Bottom: 14.92 (from TPVC)
 Length of Water: 10.51
 Free Product Observed: Yes No Thickness: —

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet

for one well volume in a 2-inch monitoring well.
 Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: — See back of page for field readings during purge
 Volume Purged: 5 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 10:15 Time Ended: 10:30
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: None
 Odor: None
 Color: Clear
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

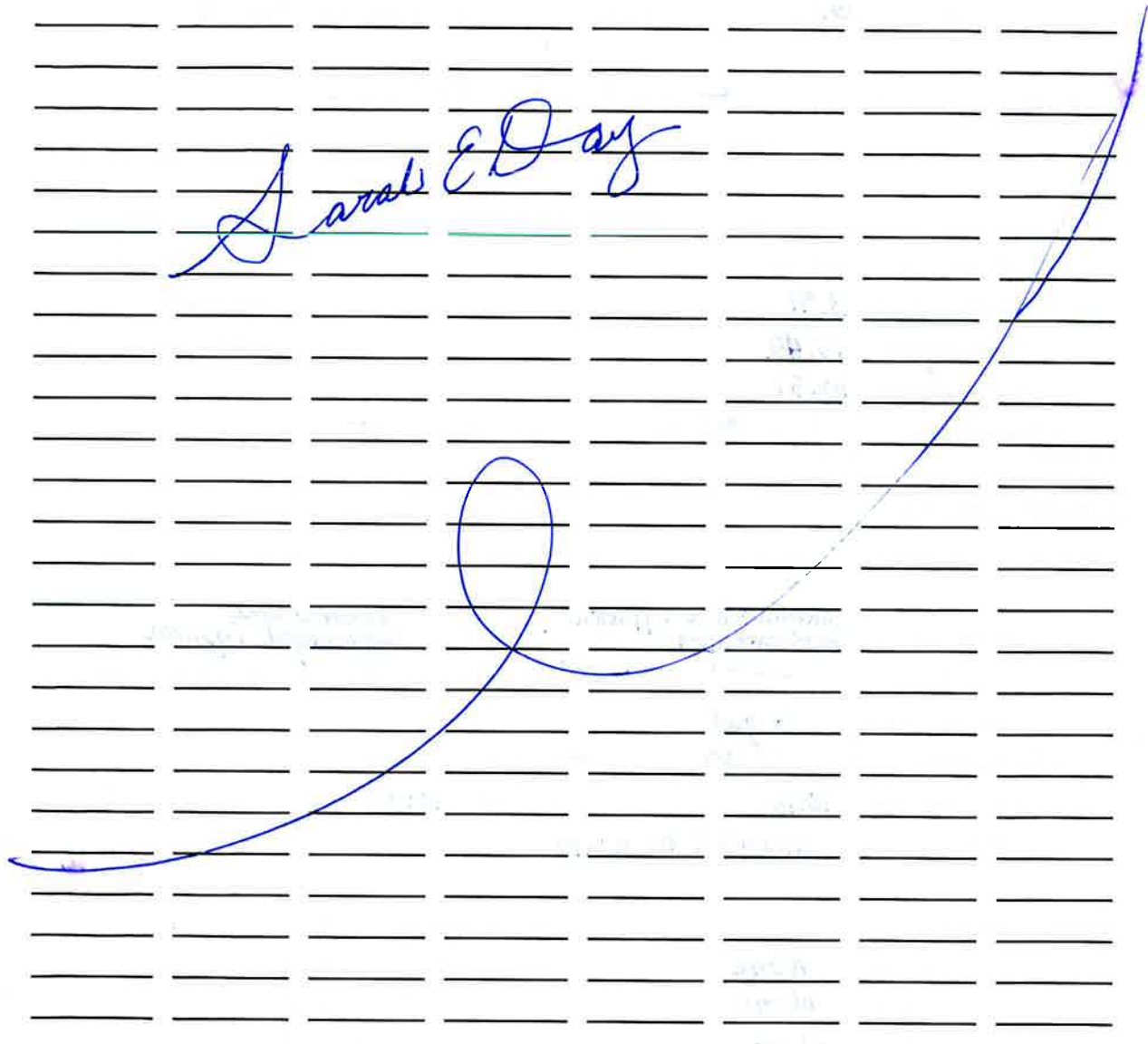
Well Purging Log

Well: WT-20

Date: 11/12/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
10:15	10.49	7.50	0.576	2.02	76.4	4.20	900
10:20	10.28	7.33	0.565	1.49	53.5	4.18	600
10:26	10.08	7.24	0.563	1.50	59.5	4.15	500
10:30	9.95	7.22	0.565	1.23	57.8	4.15	750
10:30	SAMPLE						

Araki E Day



Comments: Pump at lowest level possible

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-21 Date Sampled: 11/12/14
 Previous Well Sampled: Start of Day

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

If Missing Replaced?

Ambient Temperature: °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 5.15 (from TPVC)
 Depth to Bottom: 14.30 (from TPVC)
 Length of Water: 9.15
 Free Product Observed: Yes No Thickness: —

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: — See back of page for field readings during purge
 Volume Purged: 8 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 9:20 Time Ended: 9:55
 Decon Method: Alconox + DI Rinse

IN-SITU TESTING:

Turbidity: None
 Odor: None
 Color: Clear
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

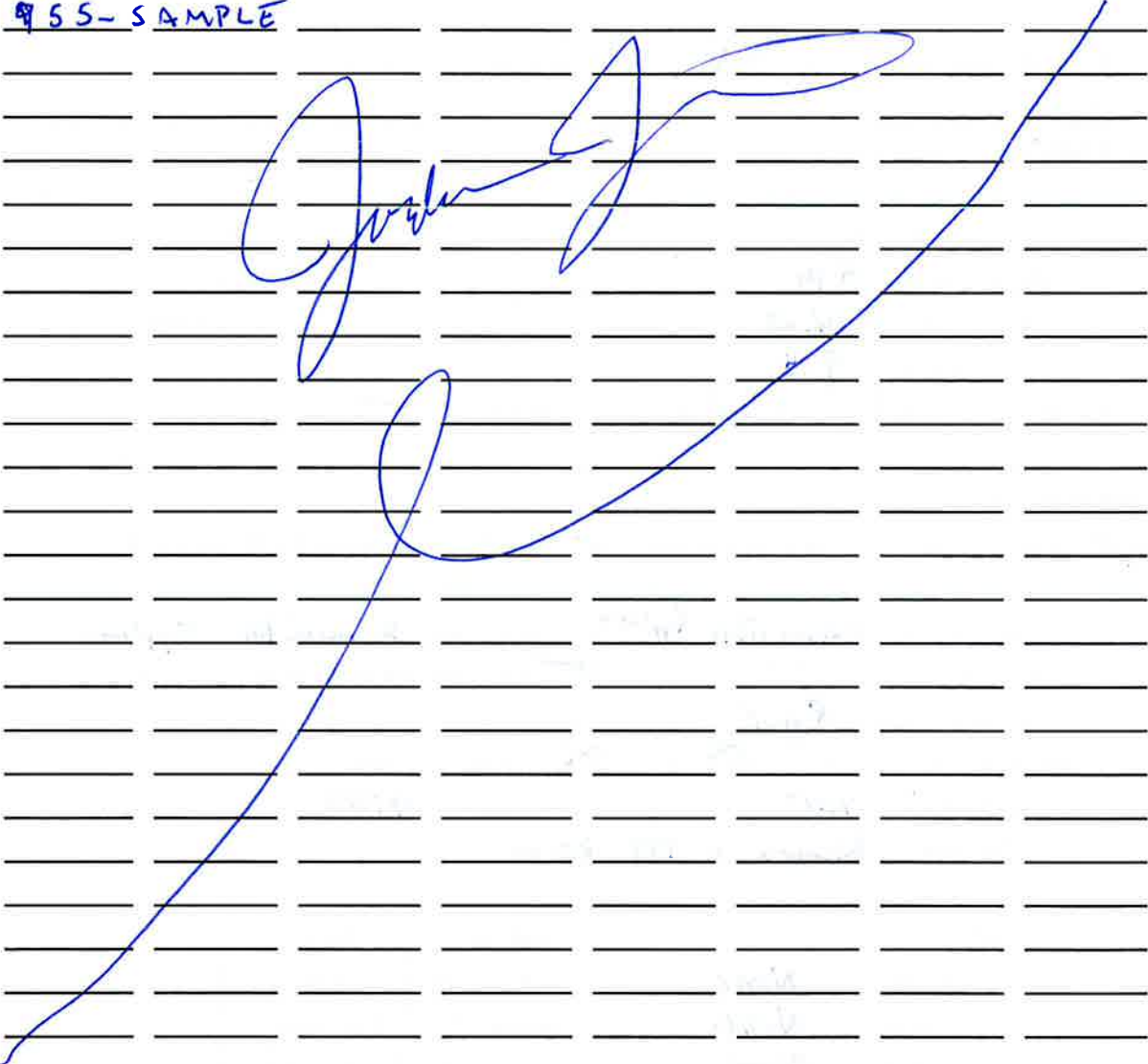
Well Purging Log

Well: WT-21

Date: 11/2/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
9:25	10.22	7.85	0.250	7.00 6.24	140.7	5.50	600
9:38	10.25	7.80	0.248	6.58	66.5	5.50	300
9:40	10.10	7.79	0.246	5.51	64.4	5.50	300
9:45	10.67	7.81	0.245	5.81	83.8	5.50	300
9:50	10.51	7.83	0.246	5.94	95.9	5.50	300
9:53	10.59	7.86	0.245	5.68	104.9	5.50	300

SS-SAMPLE



Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-22 Date Sampled: 11/12/14
 Previous Well Sampled: WT-20

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

If Missing Replaced?

Ambient Temperature: °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 5.02 (from TPVC)
 Depth to Bottom: 14.09 (from TPVC)
 Length of Water: 9.07
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet
 for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: See back of page for field readings during purge
 Volume Purged: 3.5 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 10:50 Time Ended: 11:05
 Decon Method: Alcohol & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: WT-22

Date: 11/12/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
10:50	10.55	7.66	0.432	6.96	100.0	5.15	525
10:55	10.94	7.58	0.423	6.62	86.4	5.15	450
11:00	11.01	7.55	0.418	6.51	78.4	5.10	450
11:05	11.02	7.54	0.415	6.34	77.8	5.10	450
10:05	SAMPLE						

Sarah & Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT 23 Date Sampled: 11/12/14
 Previous Well Sampled: WT 22

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: _____ °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 4.68 (from TPVC)
 Depth to Bottom: 14.23 (from TPVC)
 Length of Water: 9.55
 Free Product Observed: Yes No Thickness: —

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: — See back of page for field readings during purge
 Volume Purged: 3.5 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 11:25 Time Ended: 11:40
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: WT-23

Date: 11/12/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
11:25	10.45	7.68	0.612	3.50	123.8	4.71	900
11:30	10.40	7.38	0.621	2.37	142.6	4.71	600
11:35	10.37	7.35	0.632	2.00	119.5	4.71	600
11:40	10.32	7.32	0.642	1.60	111.3	4.71	600
11:40	SAMPLE						

Sarah E. Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-24 Date Sampled: 11/13/14
 Previous Well Sampled: PZ-24C

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: 19 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 5.80 (from TPVC)
 Depth to Bottom: 16.59 (from TPVC)
 Length of Water: 10.79
 Free Product Observed: Yes No Thickness: _____

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Peristaltic Pump Sampling Device: Peristaltic Pump
 Volume Required: _____ See back of page for field readings during purge
 Volume Purged: 2.5
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 9:40 Time Ended: 1010
 Decon Method: Alconox 3 DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

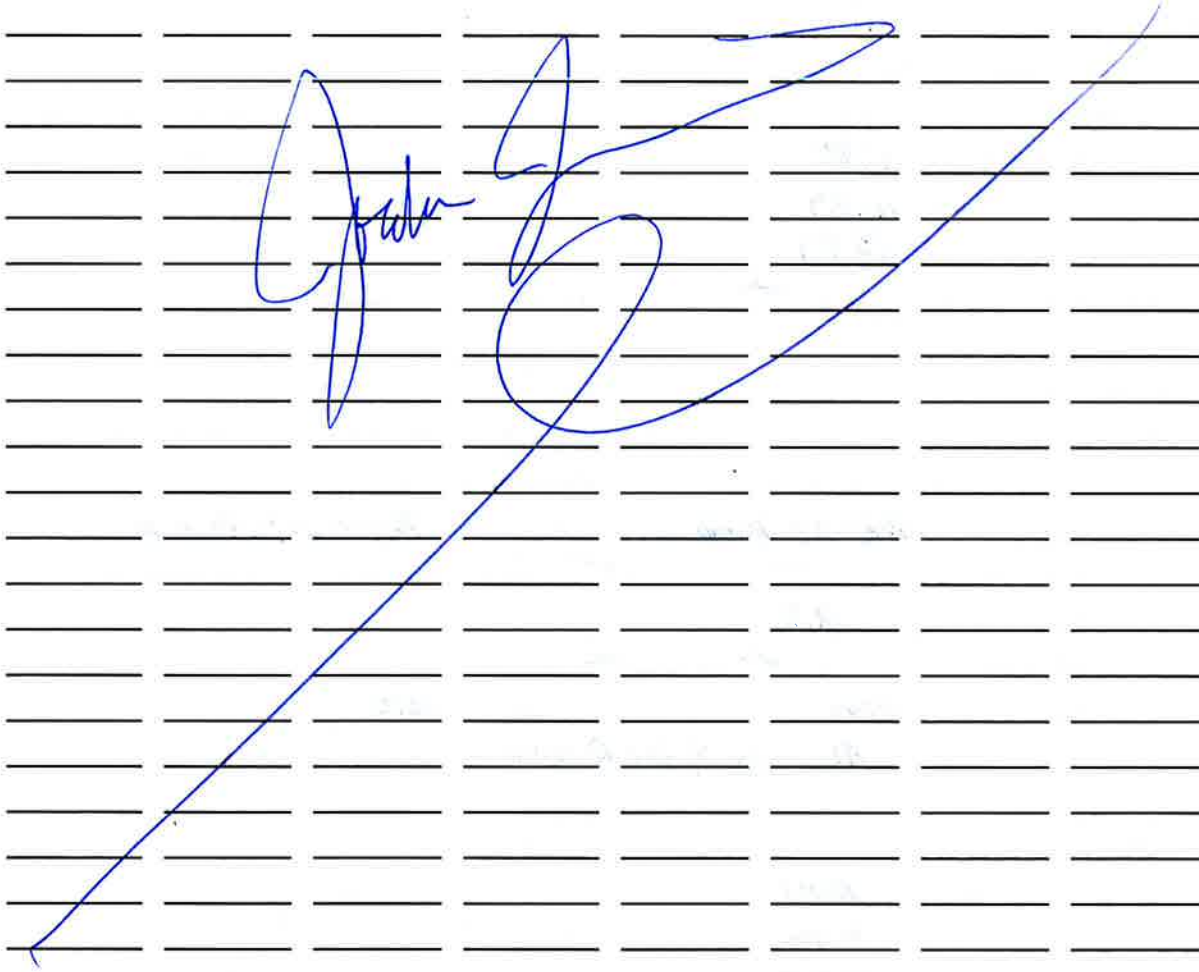
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Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: WT-24

Date: 11/14/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
945	8.25	7.17	0.854	7.25	160.1	7.70	300
950	8.20	7.07	0.859	7.55	155.2	8.33	150
955	8.14	7.04	0.858	6.68	128.5	8.75	150
958	8.10	7.03	0.860	6.55	149.5	9.29	150
1002	8.18	7.00	0.866	6.56	177.5	9.89	150
1005	8.25	7.02	0.869	6.59	167.0	10.20	150
1008	8.28	7.01	0.869	6.67	161.8	10.57	150
1010 - SAMPLE							



Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-24A Date Sampled: 11/14/14
 Previous Well Sampled: PZ-24B

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: 19 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 6.80 (from TPVC)
 Depth to Bottom: 56.70 (from TPVC)
 Length of Water: 49.90
 Free Product Observed: Yes No Thickness: _____

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: _____ See back of page for field readings during purge
 Volume Purged: 7 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 11:25 Time Ended: 12:10
 Decon Method: Alconox 3 DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: P2-24A

Date: 11/14/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
11:25	7.98	7.84	0.646	3.51	177.7	7.90	600
11:28	8.50	7.66	0.666	0.88	63.4	7.90	600
11:31	8.65	7.59	0.672	0.50	7.3	7.90	600
11:35	8.76	7.48	0.670	0.27	-167.4	7.90	600
11:40	8.72	7.45	0.665	0.23	-296.8	7.90	600
11:45	8.73	7.44	0.662	0.24	-344.4	9.00	600
11:50	8.72	7.43	0.661	0.21	-267.2	9.00	600
11:53	8.66	7.44	0.661	0.23	-160.9	9.00	600
11:56	9.13	7.46	0.661	0.44	-365.3	9.90	600
11:59	9.01	7.46	0.662	0.25	-290.4	11.00	600
12:04	9.01	7.45	0.661	0.14	-303.6	11.00	600
12:07	9.00	7.45	0.662	0.15	-318.7	11.00	600
12:10	SAMPLE						

Sarah E Day

Comments: Duplicate collected

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-24B Date Sampled: 11/14/14
 Previous Well Sampled: WT-24

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

If Missing Replaced?

Ambient Temperature: 19 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 5.15 (from TPVC)
 Depth to Bottom: 87.40 (from TPVC)
 Length of Water: 82.25
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersable Typhoon Sampling Device: Submersable Typhoon
 Volume Required: See back of page for field readings during purge
 Volume Purged: 5 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1010 Time Ended:
 Decon Method: Alconox 3 DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH:
 Specific Conductivity:
 Water Temperature:
 Comments:

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: PZ-24B

Date: 11/14/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1015	8.13	7.51	0.649	2.33	-271.7	7.75	300
1018	7.94	7.56	0.651	2.45	-376.3	8.55	300
1023	8.78	7.56	0.645	0.49	-484.2	11.60	300
1027	8.75	7.56	0.648	0.42	-468.5	11.60	300
1030	8.69	7.57	0.649	0.40	-499.8	11.72	300
1034	8.64	7.57	0.647	0.34	-45.9	11.80	300
1037	8.56	7.57	0.646	0.29	-502.6	11.90	300
1041	8.53	7.58	0.644	0.32	-599.7	11.90	300
1045	8.55	7.58	0.642	0.29	-421.8	11.90	300
1050	8.56	7.58	0.640	0.57	-510.8	11.98	300
1055	8.51	7.58	0.640	0.39	-492.6	11.98	300
1058	8.53	7.58	0.639	0.33	-492.6	11.90	300
1100	SAMPLE						

Sarah E. Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-24C Date Sampled: 11/14/14
 Previous Well Sampled: Start of Day

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: 19 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 6.68 (from TPVC)
 Depth to Bottom: 123.60 (from TPVC)
 Length of Water: 116.92
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: See back of page for field readings during purge
 Volume Purged: 6 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 9:05 Time Ended: 9:45
 Decon Method: Alconox 3 DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: 7Z-24C

Date: 11/14/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
915	8.45	7.86	0.513	1.19	-289.4	⁸⁰ 7.17	450
920	8.68	7.70	0.516	0.61	-310.4	7.17	450
925	8.82	7.60	0.519	0.33	-346.7	7.17	450
930	8.88	7.60	0.520	0.31	-366.3	7.17	450
935	8.84	7.60	0.521	0.27	-431.1	7.17	450
940	8.78	7.60	0.522	0.27	-435.6	7.17	450
943	8.71	7.61	0.523	0.27	-430.2	7.17	450
9:45 SAMPLE							

Sarah E. Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-25 Date Sampled: 11/14/14
 Previous Well Sampled: P2-25A

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

If Missing Replaced?

Ambient Temperature: 27 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 9.20 (from TPVC)
 Depth to Bottom: 21.99 (from TPVC)
 Length of Water: 12.79
 Free Product Observed: Yes No Thickness: _____

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersable Typhoon Sampling Device: Submersable Typhoon
 Volume Required: _____ See back of page for field readings during purge
 Volume Purged: 6
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1500 Time Ended: 1525
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: WT-25

Date: 11/14/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
15:02	8.74	7.69	0.728	1.57	-54.9	8.30	900
15:05	9.26	7.59	0.729	0.81	-80.4	8.30	600
15:08	9.28	7.56	0.732	0.40	-100.9	8.30	600
15:11	9.25	7.55	0.735	0.26	-115.6	8.30	600
15:15	9.34	7.54	0.733	0.22	-121.5	8.30	600
15:18	9.34	7.54	0.734	0.18	-124.1	8.30	600
15:22	9.36	7.53	0.734	0.18	-125.1	8.30	600
15:25	SAMPLE						

Sarah E. Day

Comments: Duplicate collected

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-25A Date Sampled: 11/14/14
 Previous Well Sampled: PZ-25B

GENERAL CONDITIONS:

Surface Seal: Ok Damaged Missing: Yes No
 Protector Pipe: Ok Damaged Missing: Yes No
 Well Cap: Ok Damaged Missing: Yes No

Ambient Temperature: 27 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 9.90 (from TPVC)
 Depth to Bottom: 67.50 (from TPVC)
 Length of Water: 57.60
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: submersable Typhoon Sampling Device: Submersable Typhoon
 Volume Required: See back of page for field readings during purge
 Volume Purged: 4 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1415 Time Ended: 1445
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: NOT CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

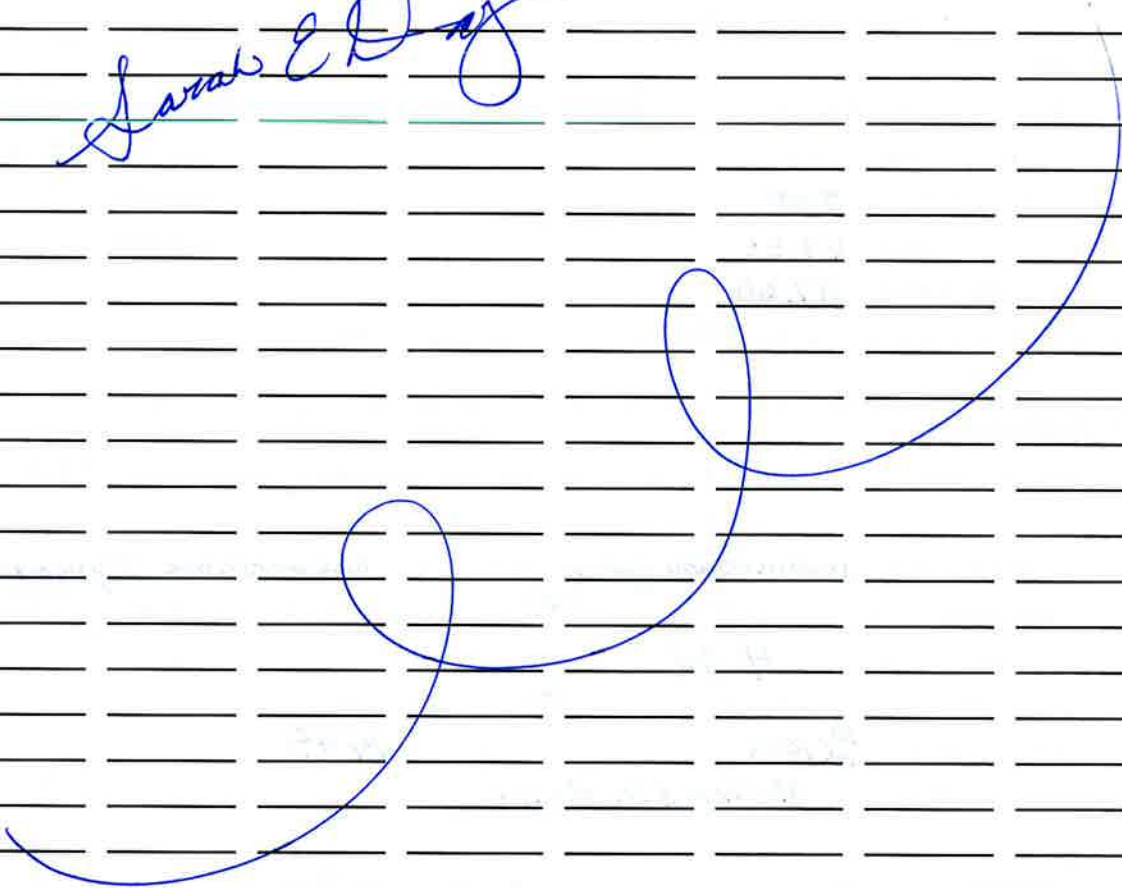
Well Purging Log

Well: PZ-25 A

Date: 11/14/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1420	8.45	7.87	0.618	0.48	-455.2	13.60	300
1425	8.17	7.89	0.615	0.19	-425.7	14.30	300
1430	8.36	7.81	0.614	0.21	-481.2	17.85	300
1435	8.49	7.81	0.610	0.20	-443.9	17.85	300
1440	8.27	7.80	0.615	0.17	-447.0	20.30	300
1445	8.66	7.80	0.613	0.19	-445.7	24.30	300
1445	SAMPLE						

Sam E D



Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-25B Date Sampled: 11/14/14
 Previous Well Sampled: PZ-25C

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: 27 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 10.90 (from TPVC)
 Depth to Bottom: 97.32 (from TPVC)
 Length of Water: 86.42
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: See back of page for field readings during purge
 Volume Purged: 5 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1325 Time Ended: 1400
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: P2-25 B

Date: 11/14/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1326	7.82	8.15	0.419	1.02	-435.2 ⁵⁰⁰	11.80	600
1330	7.84	8.19	0.418	0.77	-469.8	11.80	600
1333	7.37	8.21	0.422	0.73	-480.8	12.80	600
1338	8.32	8.21	0.409	0.42	-428.7	17.84	225
1343	8.46	8.25	0.405	0.26	-506.8	17.84	225
1348	8.21	8.21	0.403	0.24	-495.9	20.52	225
1351	8.25	8.21	0.404	0.17	-456.3	21.20	225
1354	8.22	8.21	0.405	0.17	-415.2	23.40	450
1357	8.66	8.19	0.404	0.17	-397.7	23.40	450
1400	8.60	8.19	0.406	0.15	-411.5	24.38	450
1400	SAMPLE						

Sarad & Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-25C Date Sampled: 11/14/14
 Previous Well Sampled: PZ-24A

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: 27°F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 17.43 (from TPVC)
 Depth to Bottom: 117.70 (from TPVC)
 Length of Water: 110.33
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: See back of page for field readings during purge
 Volume Purged: 8 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1230 Time Ended: 1310
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: P2-25C

Date: 11/14/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1235	8.43	7.65	0.727	5.62	-370.7	18.30	700
1240	8.56	7.51	0.723	0.92	-507.2	18.30	600
1248	8.21	8.76	0.688	0.86	-467.6	18.30	600
1251	8.69	7.97	0.701	0.45	-482.0	18.30	600
1254	8.79	7.78	0.704	0.45	-481.8	18.30	600
1257	8.75	7.64	0.711	0.31	-475.6	18.30	600
1300	8.84	7.58	0.717	0.31	-476.9	18.30	600
1303	8.81	7.55	0.720	0.40	-479.7	18.30	600
1306	8.77	7.53	0.722	0.28	-485.7	18.30	600
1310	SAMPLE						

Sarah E. Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: WT-26 Date Sampled: 11/13/14
 Previous Well Sampled: PZ-26C

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: 27 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 24.01 (from TPVC)
 Depth to Bottom: 36.21 (from TPVC)
 Length of Water: 12.20
 Free Product Observed: Yes No Thickness: —

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: peristaltic pump Sampling Device: peristaltic pump
 Volume Required: _____ See back of page for field readings during purge
 Volume Purged: 1.5 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1100 Time Ended: 1135
 Decon Method: Alconox 9 DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Comments: used peristaltic pump for lower purge rate

Well Purging Log

Well: WT26

Date: 11/13/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1105	7.49	7.39	0.887	4.99	-71.9	25.54	100
1110	7.18	7.39	0.888	4.53	-71.1	25.98	100
1115	6.88	7.34	0.889	4.44	-72.6	26.48	100
1125	6.97	7.35	0.887	4.21	-72.8	26.78	100
1130	6.90	7.33	0.887	4.22	-73.0	26.92	100
1135	6.95	7.32	0.885	4.21	-73.3	26.92	100
1135	SAMPLED						

Sarah E Day

[Large blue scribble]

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-26A Date Sampled: _____
 Previous Well Sampled: PZ-26B

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

If Missing Replaced?

Ambient Temperature: 28 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 25.01 (from TPVC)
 Depth to Bottom: 77.90 (from TPVC)
 Length of Water: 52.89
 Free Product Observed: Yes No Thickness: —

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: — See back of page for field readings during purge
 Volume Purged: 8 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 12:35 Time Ended: 13:25
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-26B Date Sampled: 11/13/14
 Previous Well Sampled: WT-26

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: 28 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 25.53 (from TPVC)
 Depth to Bottom: 108.11 (from TPVC)
 Length of Water: 82.58
 Free Product Observed: Yes No Thickness: —

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: — See back of page for field readings during purge
 Volume Purged: 4.5 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 1135 Time Ended: 1220
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: PZ-26B

Date: 11/13/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1140	8.34	7.71	1.308	2.01	-180.2	28.18	225
1145	8.33	7.77	1.335	1.16	-221.7	28.18	225
1150	8.09	7.75	1.333	0.75	-233.9	28.18	225
1155	8.59	7.75	1.301	0.63	-240.6	28.78	450
1200	8.83	7.75	1.284	0.63	-234.3	28.78	450
1205	8.66	7.73	1.246	0.43	-265.3	29.29	450
1210	8.74	7.72	1.223	0.35	-273.3	29.29	450
1215	8.90	7.72	1.171	0.32	-281.78	29.50	450
1220	8.67	7.72	1.142	0.27	-286.6	29.45	450
1220	SAMPLE						

Sarah E Day

Comments: _____

Project Name: Former Newton Gravel Pit Job No. _____
 Location: Manitowoc, WI Tester: JRJ
 Well Number: PZ-26C Date Sampled: 11/13/14
 Previous Well Sampled: PZ-01

GENERAL CONDITIONS:

Surface Seal:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Protector Pipe:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No
Well Cap:	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Damaged	<input type="checkbox"/> Missing:	Yes	No

Ambient Temperature: 25 °F Clear Cloudy Rain

WELL DATA:

Measuring Device: Heron Dipper T
 Stick Up or Down: Stick Up (from Ground Surface)
 Depth to Water: 34.75 (from TPVC)
 Depth to Bottom: 147.10 (from TPVC)
 Length of Water: 112.35
 Free Product Observed: Yes No Thickness:

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume in a 2-inch monitoring well.

Purging Device: Submersible Typhoon Sampling Device: Submersible Typhoon
 Volume Required: See back of page for field readings during purge
 Volume Purged: 7 gal
 Could Well Bail Dry? Yes No Low Flow Technique
 Purging - Time Start: 10:20 Time Ended: 1100
 Decon Method: Alconox & DI Rinse

IN-SITU TESTING:

Turbidity: NONE
 Odor: NONE
 Color: CLEAR
 pH: _____
 Specific Conductivity: _____
 Water Temperature: _____
 Comments: _____

SAMPLES COLLECTED

VOCs -	<input checked="" type="checkbox"/>	Cyanide	<input type="checkbox"/>
Metals -	<input type="checkbox"/>	Hexchrome	<input type="checkbox"/>
SVOC	<input type="checkbox"/>	Alkalinity	<input type="checkbox"/>
TOC	<input type="checkbox"/>	Chloride	<input type="checkbox"/>
Sulfide	<input type="checkbox"/>	Ammonia	<input type="checkbox"/>
Phenolics	<input type="checkbox"/>	PAHs	<input type="checkbox"/>

Well Purging Log

Well: PZ-26C

Date: 11/13/14

Time	Temp (°C)	pH (units)	Conductivity (ms/cm)	DO (mg/L)	ORP (units)	Depth to Water (ft. btoc)	Purging Rate (ml/min)
1025	7.99	8.18	0.467	20.08	-116.9	35.53	300
1030	7.63	8.07	0.499	3.45	-120.2	35.53	300
1035	7.83	7.94	0.513	2.21	-115.0	35.35	600
1040	8.65	7.81	0.509	1.16	-119.2	35.35	600
1045	9.11	7.74	0.517	0.54	-117.3	35.88	600
1050	9.10	7.73	0.528	0.37	-123.2	35.88	600
1055	9.05	7.72	0.530	0.30	-127.1	35.75	600
1100	9.12	7.72	0.531	0.25	-132.6	35.75	600
1100	SAMPLE						

Sarah O'Day

Comments: _____

Attachment C:

Horizontal & Vertical Gradient Calculations

Horizontal groundwater gradient and average linear groundwater velocity (November 2014 data):

WATER TABLE:

Horizontal Groundwater gradient

$$I_h = \Delta h_h / \Delta l_h$$

Where,

I_h = horizontal hydraulic gradient

Δh_h = difference in water table elevation between the 689-foot and 683-foot water table contour (between western source area and Silver Creek) shown on November 2014 Water Table Map

Δl_h = length (distance) between 689-foot and 683-foot water table contour along flow line shown between western source area and Silver Creek.

$$I_h = \frac{689 \text{ ft} - 683 \text{ ft}}{1110 \text{ ft}} = \frac{6 \text{ ft}}{1110 \text{ ft}} = 0.005 \text{ ft/ft}$$

Δh_h = difference in water table elevation between the 683-foot and 680-foot water table contour (east of local flow system divide) shown on November 2014 Water Table Map

Δl_h = length (distance) between 683-foot and 680-foot water table contour along flow line shown between divide at approximately WT-20 and Silver Creek to the southeast.

$$I_h = \frac{683 \text{ ft} - 680 \text{ ft}}{660 \text{ ft}} = 0.0045 \text{ ft/ft}$$

Average linear groundwater velocity

$$V = KI_h / n_e$$

Where,

V = average linear velocity

K = 2.5×10^{-3} cm/s (geometric mean for water table wells presented in June 1996 Site Investigation report and discussed in June 2009 Site Investigation Update and Remedial Action Plan).

I_h = 0.005 ft/ft as calculated above

n_e = 0.25 (estimated based on literature values)

$$V = \frac{(2.5 \times 10^{-3} \text{ cm/s}) (0.005 \text{ ft/ft})}{0.25}$$

$$= \frac{(2.5 \times 10^{-3} \text{ cm/s}) \left(\frac{1 \text{ ft}}{30.48 \text{ cm}} \right) \left(\frac{60 \text{ s}}{1 \text{ m}} \right) \left(\frac{60 \text{ m}}{1 \text{ hr}} \right) \left(\frac{24 \text{ hr}}{1 \text{ day}} \right) (0.005 \text{ ft/ft})}{0.25}$$

$$= 1.4 \times 10^{-1} \text{ ft/day}$$

$$= \sim 52 \text{ ft/year}$$

WITHIN SAND & GRAVEL AT APPROXIMATE 630 ft MSL BETWEEN WESTERN SOURCE AREA PZ-25A:

Horizontal groundwater gradient

$$I_h = \Delta h_h / \Delta l_h$$

Where, I_h = horizontal hydraulic gradient

Δh_h = difference in groundwater elevation between the 688-foot and 680-foot piezometric surface contour as shown on November 2014 "630" piezometric surface map

Δl_h = length (distance) between 688-foot and 680-foot piezometric surface contour along flow line shown

$$I_h = \frac{688 \text{ ft} - 680 \text{ ft}}{2460 \text{ ft}} = 0.003 \text{ ft/ft}$$

Average linear groundwater velocity

$$V = KI_h / n_e$$

Where, V = average linear velocity
 $K = 2.5 \times 10^{-3} \text{ cm/s}$ (consistent with geometric mean for water table wells (sand & gravel))

$$I_h = 0.003 \text{ ft/ft}$$

$n_e = 0.25$ (estimated based on literature values)

$$V = \frac{(2.5 \times 10^{-3} \text{ cm/s}) (0.003 \text{ ft/ft})}{0.25}$$

$$= \frac{(2.5 \times 10^{-3} \text{ cm/s}) \left(\frac{1 \text{ ft}}{30.48 \text{ cm}} \right) \left(\frac{60 \text{ s}}{1 \text{ m}} \right) \left(\frac{1 \text{ hr}}{1 \text{ hr}} \right) \left(\frac{24 \text{ hr}}{\text{day}} \right) (0.003 \text{ ft/ft})}{0.25}$$

$$= 8.5 \times 10^{-2} \text{ ft/day}$$

$$= \sim 31 \text{ ft/year}$$

AT APPROXIMATE 600 ft MSL BETWEEN PZ-16B AND PZ-25B
 (PRIMARILY WITHIN CLAY):

Horizontal hydraulic gradient

Δh_h = difference in groundwater elevation between the 682-foot and 678-foot piezometric surface contour as shown on November 2014 "600" piezometric surface map

Δl_h = length (distance) between 682-foot and 678-foot piezometric surface contour along flow line shown

$$I_h = \frac{682 \text{ ft} - 678 \text{ ft}}{1020 \text{ ft}} = 0.004 \text{ ft/ft}$$

Average linear groundwater velocity

$$V = KI_h/n_e$$

Where,

V = average linear velocity

$K = 10^{-5} \text{ cm/s}$ (conservative (high) estimate for clay till as described on boring logs for PZ-16B and PZ-25B)

$n_e = 0.40$ (estimated based on literature values)

$$V = \frac{(1 \times 10^{-5} \text{ cm/s}) \times (0.004 \text{ ft/ft})}{0.40}$$

$$= \frac{(1 \times 10^{-5} \text{ cm/s}) \times \left(\frac{1 \text{ ft}}{30.48 \text{ cm}}\right) \left(\frac{60 \text{ s}}{1 \text{ min}}\right) \left(\frac{60 \text{ min}}{1 \text{ hr}}\right) \left(\frac{24 \text{ hr}}{1 \text{ day}}\right) \times (0.004 \text{ ft/ft})}{0.40}$$

$$= 2.8 \times 10^{-4} \text{ ft/day}$$

$$= 0.1 \text{ ft/year}$$

⇒ clay till not a pathway / very slow linear gw velocity

WITHIN SILURIAN BEDROCK EAST OF PZ-16C:

Horizontal hydraulic gradient:

Δh_h = difference in groundwater elevation between the 681-foot and 672-foot piezometric surface contour as shown on November 2014 bedrock piezometric surface map

Δl_h = length (distance) between 681-foot and 672-foot piezometric surface contour along flow line shown

$$I_h = \frac{681 \text{ ft} - 672 \text{ ft}}{690 \text{ ft}} = 0.013 \text{ ft/ft}$$

Average linear groundwater velocity:

$$V = KI_h / n_e$$

where,

V = average linear velocity

K = 10^{-4} cm/s (conservative (high) estimate for dolomite based on literature values)

n_e = 0.20 (estimated for limestone/dolomite (0-20%) based on literature values)

$$V = \frac{(1 \times 10^{-4} \text{ cm/s})(0.013 \text{ ft/ft})}{0.20}$$

$$V = \frac{(1 \times 10^{-4} \frac{\text{cm}}{\text{s}}) \left(\frac{1 \text{ ft}}{30.48 \text{ cm}} \right) \left(\frac{60 \text{ s}}{1 \text{ m}} \right) \left(\frac{60 \text{ m}}{1 \text{ hr}} \right) \left(\frac{24 \text{ hr}}{1 \text{ day}} \right) (0.013 \text{ ft/ft})}{0.20}$$

$$= 1.8 \times 10^{-2} \text{ ft/day}$$

$$= 6.7 \text{ ft/year}$$

(does not account for fracture flow, or bedding planes, etc.)

Client City of Manitowoc **Subject** Vertical
Project Newton Gravel Pit Groundwater Gradient
Prepared By JRJ **Date** 04/04/15
Reviewed By dsh **Date** 4/15/15
Approved By **Date**
VERTICAL GROUNDWATER GRADIENT
Objective

Calculate the vertical groundwater gradient at piezometer nest locations.

Design Criteria and Assumptions

1. Piezometric elevations measured October 2013.
2. Vertical distance between two piezometers at a location is the difference between the screen elevations for each piezometer.
3. For piezometers in which the piezometric elevation occurs within the screened interval, the piezometric elevation is the screen elevation. For piezometers in which the piezometric elevation occurs above the screen interval, the midpoint elevation of the screen is the screen elevation.

Calculations

$$I_v = \Delta h_v / |\Delta L_v|$$

Where:

I_v	=	Vertical groundwater gradient
Δh_v	=	Difference in piezometric elevation between nested piezometers
ΔL_v	=	Difference in screen elevation between nested piezometers

Conclusions

Calculated vertical groundwater gradients:

Client City of Manitowoc **Subject** Vertical
Project Newton Gravel Pit Groundwater Gradient

Prepared By JRJ **Date** 04/04/15
Reviewed By dsh **Date** 4/15/15
Approved By _____ **Date** _____

November 2014

Piezometer	Piezometric Elevation (feet MSL)	Screen Elevation (feet MSL)	Vertical Groundwater Gradient (feet/foot)
WT-01	688.27	688.27	
PZ-01	688.09	624.7	0.0028 Down
WT-03	685.4	685.4	
PZ-03	686.68	621.9	0.0202 Up
WT-05	685.4	677.1	
PZ-05A	684.75	649.9	0.0239 Down
WT-05	685.4	672	
PZ-05B	685.37	629.6	0.0007 Down
PZ-05A	684.78	649.9	
PZ-05B	685.37	629.6	0.0291 Up
WT-12	683.98	682.9	
PZ-12	683.71	662.8	0.0134 Down
WT-15	683.85	683.85	
PZ-15A	684.07	661.6	0.0099 Up
WT-15	683.85	683.85	
PZ-15B	684.2	652.1	0.0110 Up
PZ-15A	684.07	661.6	
PZ-15B	684.2	652.1	0.0137 Up
WT-16	683.26	683.26	
PZ-16	683.36	664	0.0052 Up
WT-16	683.26	683.26	
PZ-16A	683.11	634.72	0.0031 Down
WT-16	683.26	683.26	
PZ-16B	682.11	605.13	0.0147 Down
WT-16	683.26	683.26	
PZ-16C	681.57	585.69	0.0173 Down
WT-24	682.64	681.94	
PZ-24A	681.68	636.8	0.0213 Down
WT-24	682.64	681.94	
PZ-24B	681.88	606.2	0.0100 Down
WT-24	682.64	681.94	
PZ-24C	681.53	569.9	0.0099 Down

Client City of Manitowoc **Subject** Vertical

Project Newton Gravel Pit Groundwater Gradient

Prepared By JRJ **Date** 04/04/15

Reviewed By dsh **Date** 4/15/15

Approved By _____ **Date** _____

Piezometer	Piezometric Elevation (feet MSL)	Screen Elevation (feet MSL)	Vertical Groundwater Gradient (feet/foot)
WT-25	680.66	676.87	0.0416 Down
PZ-25A	678.55	626.2	
WT-25	680.66	676.87	0.0370 Down
PZ-25B	677.68	596.4	
WT-25	680.66	676.87	0.0913 Down
PZ-25C	671.44	575.9	
WT-26	682.47	680.4	0.0106 Down
PZ-26A	681.98	634.2	
WT-26	682.47	680.4	0.0075 Down
PZ-26B	681.9	604.1	
WT-26	682.47	680.4	0.0922 Down
PZ-26C	671.78	564.5	

Attachment D:

Laboratory Sample Results

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Report Date 20-Nov-14

Project Name FMR NEWTON GRAVEL PIT
Project #

Invoice # E28073

Lab Code 5028073A
Sample ID WT-21
Sample Matrix Water
Sample Date 11/12/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B	11/18/2014	11/18/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B	11/18/2014	11/18/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B	11/18/2014	11/18/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B	11/18/2014	11/18/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B	11/18/2014	11/18/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B	11/18/2014	11/18/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B	11/18/2014	11/18/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B	11/18/2014	11/18/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B	11/18/2014	11/18/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B	11/18/2014	11/18/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B	11/18/2014	11/18/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B	11/18/2014	11/18/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B	11/18/2014	11/18/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B	11/18/2014	11/18/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B	11/18/2014	11/18/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B	11/18/2014	11/18/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B	11/18/2014	11/18/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B	11/18/2014	11/18/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B	11/18/2014	11/18/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B	11/18/2014	11/18/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B	11/18/2014	11/18/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B	11/18/2014	11/18/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B	11/18/2014	11/18/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B	11/18/2014	11/18/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B	11/18/2014	11/18/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B	11/18/2014	11/18/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B	11/18/2014	11/18/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B	11/18/2014	11/18/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B	11/18/2014	11/18/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B	11/18/2014	11/18/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B	11/18/2014	11/18/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B	11/18/2014	11/18/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B	11/18/2014	11/18/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
Project #

Invoice # E28073

Lab Code 5028073A
Sample ID WT-21
Sample Matrix Water
Sample Date 11/12/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/18/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/18/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/18/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/18/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/18/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/18/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/18/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/18/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/18/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/18/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/18/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/18/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/18/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/18/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/18/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/18/2014	CJR	1
SUR - Toluene-d8	108	REC %			1	8260B		11/18/2014	CJR	1
SUR - Dibromofluoromethane	95	REC %			1	8260B		11/18/2014	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %			1	8260B		11/18/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	89	REC %			1	8260B		11/18/2014	CJR	1

Lab Code 5028073B
 Sample ID WT-20
 Sample Matrix Water
 Sample Date 11/12/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/18/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/18/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/18/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/18/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/18/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/18/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/18/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/18/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/18/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/18/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/18/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/18/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/18/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/18/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/18/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/18/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/18/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/18/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/18/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/18/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/18/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/18/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/18/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/18/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/18/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/18/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/18/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/18/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/18/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/18/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/18/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/18/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/18/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/18/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/18/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/18/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/18/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/18/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/18/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/18/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		11/18/2014	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		11/18/2014	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		11/18/2014	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		11/18/2014	CJR	1

Lab Code 5028073C
 Sample ID WT-22
 Sample Matrix Water
 Sample Date 11/12/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/18/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/18/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/18/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/18/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/18/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/18/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/18/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/18/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/18/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/18/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/18/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/18/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/18/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/18/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/18/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/18/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/18/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/18/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/18/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/18/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/18/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/18/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/18/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/18/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/18/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/18/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/18/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/18/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/18/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/18/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/18/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/18/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/18/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/18/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/18/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/18/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/18/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/18/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/18/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/18/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		11/18/2014	CJR	1
SUR - Toluene-d8	105	REC %			1	8260B		11/18/2014	CJR	1
SUR - 4-Bromofluorobenzene	119	REC %			1	8260B		11/18/2014	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		11/18/2014	CJR	1

Lab Code 5028073D
 Sample ID WT-23
 Sample Matrix Water
 Sample Date 11/12/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/18/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/18/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/18/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/18/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/18/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/18/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/18/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/18/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/18/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/18/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/18/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/18/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/18/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/18/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/18/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/18/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/18/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/18/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/18/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/18/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/18/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/18/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/18/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/18/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/18/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/18/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/18/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/18/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/18/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/18/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/18/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/18/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/18/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/18/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/18/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/18/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/18/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/18/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/18/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/18/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	89	REC %			1	8260B		11/18/2014	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		11/18/2014	CJR	1
SUR - Dibromofluoromethane	89	REC %			1	8260B		11/18/2014	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		11/18/2014	CJR	1

Lab Code 5028073E
 Sample ID WT-16
 Sample Matrix Water
 Sample Date 11/12/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	30 "J"	ug/l	12	38.5	50	8260B		11/17/2014	CJR	1
Bromobenzene	< 16	ug/l	16	50	50	8260B		11/17/2014	CJR	1
Bromodichloromethane	< 18.5	ug/l	18.5	60	50	8260B		11/17/2014	CJR	1
Bromoform	< 17.5	ug/l	17.5	55	50	8260B		11/17/2014	CJR	1
tert-Butylbenzene	< 18	ug/l	18	60	50	8260B		11/17/2014	CJR	1
sec-Butylbenzene	< 16.5	ug/l	16.5	50	50	8260B		11/17/2014	CJR	1
n-Butylbenzene	< 17.5	ug/l	17.5	55	50	8260B		11/17/2014	CJR	1
Carbon Tetrachloride	< 16.5	ug/l	16.5	55	50	8260B		11/17/2014	CJR	1
Chlorobenzene	< 12	ug/l	12	38.5	50	8260B		11/17/2014	CJR	1
Chloroethane	< 31.5	ug/l	31.5	100	50	8260B		11/17/2014	CJR	1
Chloroform	< 14	ug/l	14	44	50	8260B		11/17/2014	CJR	1
Chloromethane	< 40.5	ug/l	40.5	130	50	8260B		11/17/2014	CJR	1
2-Chlorotoluene	< 10.5	ug/l	10.5	33	50	8260B		11/17/2014	CJR	1
4-Chlorotoluene	< 10.5	ug/l	10.5	34	50	8260B		11/17/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 44	ug/l	44	140	50	8260B		11/17/2014	CJR	3
Dibromochloromethane	< 11	ug/l	11	35	50	8260B		11/17/2014	CJR	1
1,4-Dichlorobenzene	< 15	ug/l	15	48	50	8260B		11/17/2014	CJR	1
1,3-Dichlorobenzene	< 14	ug/l	14	44.5	50	8260B		11/17/2014	CJR	1
1,2-Dichlorobenzene	< 18	ug/l	18	60	50	8260B		11/17/2014	CJR	2
Dichlorodifluoromethane	< 22	ug/l	22	70	50	8260B		11/17/2014	CJR	1
1,2-Dichloroethane	< 20.5	ug/l	20.5	65	50	8260B		11/17/2014	CJR	1
1,1-Dichloroethane	< 15	ug/l	15	48.5	50	8260B		11/17/2014	CJR	1
1,1-Dichloroethene	< 20	ug/l	20	65	50	8260B		11/17/2014	CJR	1
cis-1,2-Dichloroethene	1540	ug/l	19	60	50	8260B		11/17/2014	CJR	1
trans-1,2-Dichloroethene	< 17.5	ug/l	17.5	55	50	8260B		11/17/2014	CJR	1
1,2-Dichloropropane	< 16	ug/l	16	50	50	8260B		11/17/2014	CJR	1
2,2-Dichloropropane	< 18	ug/l	18	60	50	8260B		11/17/2014	CJR	1
1,3-Dichloropropane	< 16.5	ug/l	16.5	50	50	8260B		11/17/2014	CJR	1
Di-isopropyl ether	< 11.5	ug/l	11.5	36.5	50	8260B		11/17/2014	CJR	1
EDB (1,2-Dibromoethane)	< 22	ug/l	22	70	50	8260B		11/17/2014	CJR	1
Ethylbenzene	< 27.5	ug/l	27.5	85	50	8260B		11/17/2014	CJR	1
Hexachlorobutadiene	< 75	ug/l	75	240	50	8260B		11/17/2014	CJR	1
Isopropylbenzene	< 15	ug/l	15	48	50	8260B		11/17/2014	CJR	1
p-Isopropyltoluene	< 15.5	ug/l	15.5	49	50	8260B		11/17/2014	CJR	1
Methylene chloride	< 25	ug/l	25	80	50	8260B		11/17/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 11.5	ug/l	11.5	37	50	8260B		11/17/2014	CJR	1
Naphthalene	< 85	ug/l	85	275	50	8260B		11/17/2014	CJR	3
n-Propylbenzene	< 12.5	ug/l	12.5	40.5	50	8260B		11/17/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 22.5	ug/l	22.5	70	50	8260B		11/17/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 16.5	ug/l	16.5	55	50	8260B		11/17/2014	CJR	1
Tetrachloroethene	< 16.5	ug/l	16.5	55	50	8260B		11/17/2014	CJR	1
Toluene	< 34.5	ug/l	34.5	110	50	8260B		11/17/2014	CJR	1
1,2,4-Trichlorobenzene	< 49	ug/l	49	155	50	8260B		11/17/2014	CJR	3
1,2,3-Trichlorobenzene	< 90	ug/l	90	290	50	8260B		11/17/2014	CJR	3
1,1,1-Trichloroethane	< 16.5	ug/l	16.5	50	50	8260B		11/17/2014	CJR	1
1,1,2-Trichloroethane	< 17	ug/l	17	55	50	8260B		11/17/2014	CJR	1
Trichloroethene (TCE)	17 "J"	ug/l	16.5	50	50	8260B		11/17/2014	CJR	1
Trichlorofluoromethane	< 35.5	ug/l	35.5	115	50	8260B		11/17/2014	CJR	1
1,2,4-Trimethylbenzene	< 110	ug/l	110	345	50	8260B		11/17/2014	CJR	1
1,3,5-Trimethylbenzene	< 70	ug/l	70	225	50	8260B		11/17/2014	CJR	1
Vinyl Chloride	1460	ug/l	9	28.5	50	8260B		11/17/2014	CJR	1
m&p-Xylene	< 34.5	ug/l	34.5	110	50	8260B		11/17/2014	CJR	1
o-Xylene	< 31.5	ug/l	31.5	100	50	8260B		11/17/2014	CJR	1
SUR - Toluene-d8	102	REC %				8260B		11/17/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	90	REC %				8260B		11/17/2014	CJR	1
SUR - 4-Bromofluorobenzene	119	REC %				8260B		11/17/2014	CJR	1
SUR - Dibromofluoromethane	101	REC %				8260B		11/17/2014	CJR	1

Lab Code 5028073F
 Sample ID PZ-16
 Sample Matrix Water
 Sample Date 11/12/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	8.8	ug/l	2.4	7.7	10	8260B		11/19/2014	CJR	1
Bromobenzene	< 3.2	ug/l	3.2	10	10	8260B		11/19/2014	CJR	1
Bromodichloromethane	< 3.7	ug/l	3.7	12	10	8260B		11/19/2014	CJR	1
Bromoform	< 3.5	ug/l	3.5	11	10	8260B		11/19/2014	CJR	1
tert-Butylbenzene	< 3.6	ug/l	3.6	12	10	8260B		11/19/2014	CJR	2
sec-Butylbenzene	< 3.3	ug/l	3.3	10	10	8260B		11/19/2014	CJR	1
n-Butylbenzene	< 3.5	ug/l	3.5	11	10	8260B		11/19/2014	CJR	1
Carbon Tetrachloride	< 3.3	ug/l	3.3	11	10	8260B		11/19/2014	CJR	1
Chlorobenzene	< 2.4	ug/l	2.4	7.7	10	8260B		11/19/2014	CJR	1
Chloroethane	< 6.3	ug/l	6.3	20	10	8260B		11/19/2014	CJR	1
Chloroform	< 2.8	ug/l	2.8	8.8	10	8260B		11/19/2014	CJR	1
Chloromethane	< 8.1	ug/l	8.1	26	10	8260B		11/19/2014	CJR	1
2-Chlorotoluene	< 2.1	ug/l	2.1	6.6	10	8260B		11/19/2014	CJR	2
4-Chlorotoluene	< 2.1	ug/l	2.1	6.8	10	8260B		11/19/2014	CJR	2
1,2-Dibromo-3-chloropropane	< 8.8	ug/l	8.8	28	10	8260B		11/19/2014	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	7	10	8260B		11/19/2014	CJR	1
1,4-Dichlorobenzene	< 3	ug/l	3	9.6	10	8260B		11/19/2014	CJR	1
1,3-Dichlorobenzene	< 2.8	ug/l	2.8	8.9	10	8260B		11/19/2014	CJR	1
1,2-Dichlorobenzene	< 3.6	ug/l	3.6	12	10	8260B		11/19/2014	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	14	10	8260B		11/19/2014	CJR	1
1,2-Dichloroethane	< 4.1	ug/l	4.1	13	10	8260B		11/19/2014	CJR	1
1,1-Dichloroethane	< 3	ug/l	3	9.7	10	8260B		11/19/2014	CJR	1
1,1-Dichloroethene	< 4	ug/l	4	13	10	8260B		11/19/2014	CJR	1
cis-1,2-Dichloroethene	820	ug/l	3.8	12	10	8260B		11/19/2014	CJR	1
trans-1,2-Dichloroethene	18.5	ug/l	3.5	11	10	8260B		11/19/2014	CJR	1
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10	8260B		11/19/2014	CJR	1
2,2-Dichloropropane	< 3.6	ug/l	3.6	12	10	8260B		11/19/2014	CJR	8
1,3-Dichloropropane	< 3.3	ug/l	3.3	10	10	8260B		11/19/2014	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B		11/19/2014	CJR	1
EDB (1,2-Dibromoethane)	< 4.4	ug/l	4.4	14	10	8260B		11/19/2014	CJR	1
Ethylbenzene	< 5.5	ug/l	5.5	17	10	8260B		11/19/2014	CJR	1
Hexachlorobutadiene	< 15	ug/l	15	48	10	8260B		11/19/2014	CJR	1
Isopropylbenzene	< 3	ug/l	3	9.6	10	8260B		11/19/2014	CJR	1
p-Isopropyltoluene	< 3.1	ug/l	3.1	9.8	10	8260B		11/19/2014	CJR	1
Methylene chloride	< 5	ug/l	5	16	10	8260B		11/19/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.3	ug/l	2.3	7.4	10	8260B		11/19/2014	CJR	1
Naphthalene	< 17	ug/l	17	55	10	8260B		11/19/2014	CJR	1
n-Propylbenzene	< 2.5	ug/l	2.5	8.1	10	8260B		11/19/2014	CJR	2
1,1,2,2-Tetrachloroethane	< 4.5	ug/l	4.5	14	10	8260B		11/19/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 3.3	ug/l	3.3	11	10	8260B		11/19/2014	CJR	1
Tetrachloroethene	< 3.3	ug/l	3.3	11	10	8260B		11/19/2014	CJR	1
Toluene	< 6.9	ug/l	6.9	22	10	8260B		11/19/2014	CJR	1
1,2,4-Trichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		11/19/2014	CJR	2
1,2,3-Trichlorobenzene	< 18	ug/l	18	58	10	8260B		11/19/2014	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10	10	8260B		11/19/2014	CJR	1
1,1,2-Trichloroethane	< 3.4	ug/l	3.4	11	10	8260B		11/19/2014	CJR	1
Trichloroethene (TCE)	4.2 "J"	ug/l	3.3	10	10	8260B		11/19/2014	CJR	1
Trichlorofluoromethane	< 7.1	ug/l	7.1	23	10	8260B		11/19/2014	CJR	1
1,2,4-Trimethylbenzene	< 22	ug/l	22	69	10	8260B		11/19/2014	CJR	1
1,3,5-Trimethylbenzene	< 14	ug/l	14	45	10	8260B		11/19/2014	CJR	1
Vinyl Chloride	252	ug/l	1.8	5.7	10	8260B		11/19/2014	CJR	1
m&p-Xylene	< 6.9	ug/l	6.9	22	10	8260B		11/19/2014	CJR	1
o-Xylene	< 6.3	ug/l	6.3	20	10	8260B		11/19/2014	CJR	1
SUR - Toluene-d8	99	REC %				8260B		11/19/2014	CJR	1
SUR - Dibromofluoromethane	100	REC %				8260B		11/19/2014	CJR	1
SUR - 4-Bromofluorobenzene	107	REC %				8260B		11/19/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %				8260B		11/19/2014	CJR	1

Lab Code 5028073G
 Sample ID PZ-16A
 Sample Matrix Water
 Sample Date 11/12/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/18/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/18/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/18/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/18/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/18/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/18/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/18/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/18/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/18/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/18/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/18/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/18/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/18/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/18/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/18/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/18/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/18/2014	CJR	1
cis-1,2-Dichloroethene	6.3	ug/l	0.38	1.2	1	8260B		11/18/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/18/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/18/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/18/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/18/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/18/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/18/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/18/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/18/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/18/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/18/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/18/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/18/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/18/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/18/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/18/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/18/2014	CJR	1
Trichloroethene (TCE)	5.4	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/18/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/18/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/18/2014	CJR	1
Vinyl Chloride	2.55	ug/l	0.18	0.57	1	8260B		11/18/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/18/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/18/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		11/18/2014	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		11/18/2014	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		11/18/2014	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		11/18/2014	CJR	1

Lab Code 5028073H
 Sample ID PZ-16A DUP
 Sample Matrix Water
 Sample Date 11/12/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	0.26 "J"	ug/l	0.24	0.77	1	8260B		11/18/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/18/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/18/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/18/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/18/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/18/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/18/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/18/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/18/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/18/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/18/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/18/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/18/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/18/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/18/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/18/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/18/2014	CJR	1
cis-1,2-Dichloroethene	5.7	ug/l	0.38	1.2	1	8260B		11/18/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/18/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/18/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/18/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/18/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/18/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/18/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/18/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/18/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/18/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/18/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/18/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/18/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/18/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/18/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/18/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/18/2014	CJR	1
Trichloroethene (TCE)	4.4	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/18/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/18/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/18/2014	CJR	1
Vinyl Chloride	2.38	ug/l	0.18	0.57	1	8260B		11/18/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/18/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/18/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		11/18/2014	CJR	1
SUR - Toluene-d8	88	REC %			1	8260B		11/18/2014	CJR	1
SUR - 4-Bromofluorobenzene	119	REC %			1	8260B		11/18/2014	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		11/18/2014	CJR	1

Lab Code 5028073I
 Sample ID PZ-16B
 Sample Matrix Water
 Sample Date 11/12/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/18/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/18/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/18/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/18/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/18/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/18/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/18/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/18/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/18/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/18/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/18/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/18/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/18/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/18/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/18/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/18/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/18/2014	CJR	1
cis-1,2-Dichloroethene	1.56	ug/l	0.38	1.2	1	8260B		11/18/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/18/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/18/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/18/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/18/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/18/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/18/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/18/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/18/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/18/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/18/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/18/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/18/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/18/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/18/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/18/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/18/2014	CJR	1
Trichloroethene (TCE)	2.38	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/18/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/18/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/18/2014	CJR	1
Vinyl Chloride	0.64	ug/l	0.18	0.57	1	8260B		11/18/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/18/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/18/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1	8260B		11/18/2014	CJR	1
SUR - 4-Bromofluorobenzene	108	REC %			1	8260B		11/18/2014	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		11/18/2014	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		11/18/2014	CJR	1

Lab Code 5028073J
 Sample ID WT-01
 Sample Matrix Water
 Sample Date 11/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/18/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/18/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/18/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/18/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/18/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/18/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/18/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/18/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/18/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/18/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/18/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/18/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/18/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/18/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/18/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/18/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/18/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/18/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/18/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/18/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/18/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/18/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/18/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/18/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/18/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/18/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/18/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/18/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/18/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/18/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/18/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/18/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/18/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/18/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/18/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/18/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/18/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/18/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/18/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/18/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/18/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/18/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/18/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/18/2014	CJR	1
SUR - Dibromofluoromethane	107	REC %			1	8260B		11/18/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	93	REC %			1	8260B		11/18/2014	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		11/18/2014	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		11/18/2014	CJR	1

Lab Code 5028073K
 Sample ID PZ-01
 Sample Matrix Water
 Sample Date 11/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/19/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/19/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/19/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/19/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/19/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/19/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/19/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/19/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/19/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/19/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/19/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/19/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/19/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/19/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/19/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/19/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/19/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/19/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/19/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/19/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/19/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/19/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/19/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/19/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/19/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/19/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
SUR - Toluene-d8	104	REC %			1	8260B		11/19/2014	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		11/19/2014	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		11/19/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	89	REC %			1	8260B		11/19/2014	CJR	1

Lab Code 5028073L
 Sample ID EB-01
 Sample Matrix Water
 Sample Date 11/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/19/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/19/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/19/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/19/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/19/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/19/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/19/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/19/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/19/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/19/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/19/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/19/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/19/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/19/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/19/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/19/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/19/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/19/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/19/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/19/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/19/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/19/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/19/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/19/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/19/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/19/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		11/19/2014	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		11/19/2014	CJR	1
SUR - Dibromofluoromethane	86	REC %			1	8260B		11/19/2014	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		11/19/2014	CJR	1

Lab Code 5028073M
 Sample ID PZ-26C
 Sample Matrix Water
 Sample Date 11/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/19/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/19/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/19/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/19/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/19/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/19/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/19/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/19/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/19/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/19/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/19/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/19/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/19/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/19/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/19/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/19/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/19/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/19/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/19/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/19/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/19/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/19/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/19/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/19/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/19/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/19/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		11/19/2014	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		11/19/2014	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		11/19/2014	CJR	1
SUR - Dibromofluoromethane	86	REC %			1	8260B		11/19/2014	CJR	1

Lab Code 5028073N
 Sample ID WT-26
 Sample Matrix Water
 Sample Date 11/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/19/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
Chloroform	0.89	ug/l	0.28	0.88	1	8260B		11/19/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/19/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/19/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/19/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/19/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/19/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/19/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/19/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/19/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/19/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/19/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/19/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/19/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/19/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/19/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/19/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/19/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/19/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/19/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/19/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/19/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/19/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/19/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/19/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/19/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		11/19/2014	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		11/19/2014	CJR	1
SUR - Dibromofluoromethane	87	REC %			1	8260B		11/19/2014	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		11/19/2014	CJR	1

Lab Code 50280730
 Sample ID PZ-26B
 Sample Matrix Water
 Sample Date 11/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/19/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
Chloroform	0.47 "J"	ug/l	0.28	0.88	1	8260B		11/19/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/19/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/19/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/19/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/19/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/19/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/19/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/19/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/19/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/19/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/19/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/19/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/19/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/19/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/19/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/19/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/19/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/19/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Toluene	5.1	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/19/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/19/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/19/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/19/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/19/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/19/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/19/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		11/19/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	92	REC %			1	8260B		11/19/2014	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		11/19/2014	CJR	1
SUR - Dibromofluoromethane	82	REC %			1	8260B		11/19/2014	CJR	1

Lab Code 5028073P
 Sample ID PZ-26A
 Sample Matrix Water
 Sample Date 11/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/19/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
Chloroform	1.25	ug/l	0.28	0.88	1	8260B		11/19/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/19/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/19/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/19/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/19/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/19/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/19/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/19/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/19/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/19/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/19/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/19/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/19/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/19/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/19/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/19/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/19/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/19/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/19/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/19/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/19/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/19/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/19/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/19/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/19/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		11/19/2014	CJR	1
SUR - Dibromofluoromethane	84	REC %			1	8260B		11/19/2014	CJR	1
SUR - 4-Bromofluorobenzene	95	REC %			1	8260B		11/19/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		11/19/2014	CJR	1

Lab Code 5028073Q
 Sample ID WP-07
 Sample Matrix Water
 Sample Date 11/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/19/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/19/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/19/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/19/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/19/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/19/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/19/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/19/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/19/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/19/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/19/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/19/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/19/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/19/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/19/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/19/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/19/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/19/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/19/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/19/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/19/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/19/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/19/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/19/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/19/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/19/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	92	REC %			1	8260B		11/19/2014	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		11/19/2014	CJR	1
SUR - Dibromofluoromethane	87	REC %			1	8260B		11/19/2014	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		11/19/2014	CJR	1

Lab Code 5028073R
 Sample ID WP-04
 Sample Matrix Water
 Sample Date 11/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/19/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/19/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/19/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/19/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/19/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/19/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/19/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/19/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/19/2014	CJR	1
cis-1,2-Dichloroethene	5.2	ug/l	0.38	1.2	1	8260B		11/19/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/19/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/19/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/19/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/19/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/19/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/19/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/19/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/19/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/19/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/19/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/19/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/19/2014	CJR	1
Trichloroethene (TCE)	3.4	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/19/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/19/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/19/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/19/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		11/19/2014	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		11/19/2014	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		11/19/2014	CJR	1
SUR - Dibromofluoromethane	83	REC %			1	8260B		11/19/2014	CJR	1

Lab Code 5028073S
 Sample ID TRIP BLANK
 Sample Matrix Water
 Sample Date 11/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/19/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/19/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/19/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/19/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/19/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/19/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/19/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/19/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/19/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/19/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/19/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/19/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/19/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/19/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/19/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/19/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/19/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/19/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/19/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/19/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/19/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/19/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/19/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/19/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/19/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/19/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1	8260B		11/19/2014	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		11/19/2014	CJR	1
SUR - Dibromofluoromethane	87	REC %			1	8260B		11/19/2014	CJR	1
SUR - Toluene-d8	92	REC %			1	8260B		11/19/2014	CJR	1

Lab Code 5028073T
 Sample ID PZ-16C
 Sample Matrix Water
 Sample Date 11/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/19/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/19/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/19/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/19/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/19/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/19/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/19/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/19/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/19/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/19/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/19/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/19/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/19/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/19/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/19/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/19/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/19/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/19/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/19/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/19/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/19/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/19/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/19/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/19/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/19/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/19/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/19/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/19/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/19/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/19/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/19/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/19/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/19/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/19/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/19/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/19/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/19/2014	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		11/19/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		11/19/2014	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		11/19/2014	CJR	1
SUR - Dibromofluoromethane	84	REC %			1	8260B		11/19/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

<i>Code</i>	<i>Comment</i>
1	Laboratory QC within limits.
2	Relative percent difference failed for laboratory spiked samples.
3	The matrix spike not within established limits.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



Michael J. Steel

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request
Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)
 Normal Turn Around

Lab I.D. # _____ Quote No.: _____
Account No.: _____
Project #: _____
Sampler: (signature) *John J.*
Project (Name / Location): *Former Newton Ground Pit / Manitowish, WI*
Reports To: *DAVE HENDERSON*
Company: *AECOM*
Address: *1555 N. River Center Dr. STEAD*
City State Zip: _____
Phone: *414-944-6190*
FAX: *414-944-6080*

Analysis Requested		Other Analysis																					
Lab I.D.	Sample I.D.	Collection Date Time	Sample Type (Matrix)*	No. of Containers	Filtered Y/N	Grab	Comp	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID	
<i>SOL 8073A</i>	<i>WT-21</i>	<i>11/12/14 9:55</i>	<i>GW</i>	<i>3</i>	<i>N</i>	<i>X</i>																	
<i>B</i>	<i>WT-20</i>	<i>11/12/14 10:30</i>	<i>GW</i>	<i>3</i>	<i>N</i>	<i>X</i>																	
<i>C</i>	<i>WT-22</i>	<i>11/12/14 11:05</i>	<i>GW</i>	<i>3</i>	<i>N</i>	<i>X</i>																	
<i>D</i>	<i>WT-23</i>	<i>11/12/14 11:40</i>	<i>GW</i>	<i>3</i>	<i>N</i>	<i>X</i>																	
<i>E</i>	<i>WT-16</i>	<i>11/12/14 12:15</i>	<i>GW</i>	<i>3</i>	<i>N</i>	<i>X</i>																	
<i>F</i>	<i>PZ-16</i>	<i>11/12/14 12:50</i>	<i>GW</i>	<i>3</i>	<i>N</i>	<i>X</i>																	
<i>G</i>	<i>PZ-16A</i>	<i>11/12/14 13:25</i>	<i>GW</i>	<i>3</i>	<i>N</i>	<i>X</i>																	
<i>H</i>	<i>PZ-16A Dup</i>	<i>11/12/14 13:25</i>	<i>GW</i>	<i>3</i>	<i>N</i>	<i>X</i>																	
<i>I</i>	<i>PZ-16B</i>	<i>11/12/14 14:25</i>	<i>GW</i>	<i>3</i>	<i>N</i>	<i>X</i>																	
<i>J</i>	<i>WT-01</i>	<i>11/12/14 9:15</i>	<i>GW</i>	<i>3</i>	<i>N</i>	<i>X</i>																	

Comments/Special Instructions ("Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Analysis per Contract

Analyze PZ-16C per Dave Henderson - CSR 11/17/14

Sample Integrity - To be completed by receiving lab.
Method of Shipment: *Dry Ice* °C On Ice:
Temp. of Temp. Blank: _____ °C
Cooler seal intact upon receipt: Yes _____ No

Relinquished By: (sign) *John J.* Time *11/13/14 19:00*
Received By: (sign) *Tay A Schuy* Time *11/13/14 19:00*

Received in Laboratory By: *Dave Henderson* Date: *11/15/14*
Time: *10:00*

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request

Rush Analysis Date Required
(Rushes accepted only with prior authorization)
 Normal Turn Around

Lab I.D. # _____ Quote No.: _____
Account No.: _____
Project #: _____
Sampler: (signature) John J. Schaub
Project (Name / Location): Former Newton Gravel Pit
Reports To: DAVE HENDERSON
Company: NECOM
Address: 1555 N. RiverCenter Dr. STE 214
City State Zip: Milwaukee, WI 53212
Phone: 414-944-6190
FAX: 414-944-6080

Invoice To: DAVE HENDERSON
Company: SAME

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
S022073k	PZ-01	11/31/14	955	X	X	N	3	GW	HCl															
L	EB-01	11/31/14	1005	X	X	N	3	GW	HCl															
M	PZ-26C	11/31/14	1100	X	X	N	3	GW	HCl															
N	WT-26	11/31/14	1200	X	X	N	3	GW	HCl															
O	PZ-26B	11/31/14	1325	X	X	N	3	GW	HCl															
P	PZ-26A	11/31/14	1435	X	X	N	3	GW	HCl															
Q	WP-04	11/31/14	1515	X	X	N	3	GW	HCl															
R	Tip Blank	11/14/14	0800	X	X	N	3	GW	HCl															
S	Tip Blank	11/14/14	0800	X	X	N	2	GW	HCl															

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Analysis per Contract

Analyze PZ-16C per Dave Henderson - ENR 11/7/14

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Dry Ice
Temp. of Temp. Blank: _____ °C On Ice:
Cooler seal intact upon receipt: Yes No

Relinquished By: (sign) John J. Schaub Time 11/13/14 900
Received By: (sign) Joy Schaub Time 1900 Date 11/13/14

Received in Laboratory By: Christy Jones Time: 10:00 Date: 11/15/14

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Report Date 26-Nov-14

Project Name FMR NEWTON GRAVEL PIT
Project #

Invoice # E28102

Lab Code 5028102A
Sample ID PZ-24C
Sample Matrix Water
Sample Date 11/14/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	1.69	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/22/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
Chloroform	0.43 "J"	ug/l	0.28	0.88	1	8260B		11/22/2014	CJR	1
Chloromethane	2.58 "J"	ug/l	0.81	2.6	1	8260B		11/22/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/22/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/22/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/22/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/22/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/22/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/22/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/22/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/22/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/22/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/22/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
Project #

Invoice # E28102

Lab Code 5028102A
Sample ID PZ-24C
Sample Matrix Water
Sample Date 11/14/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/22/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/22/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/22/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/22/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/22/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/22/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/22/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/22/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/22/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/22/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/22/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/22/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		11/22/2014	CJR	1
SUR - Dibromofluoromethane	87	REC %			1	8260B		11/22/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			1	8260B		11/22/2014	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %			1	8260B		11/22/2014	CJR	1

Lab Code 5028102B
 Sample ID PZ-24A
 Sample Matrix Water
 Sample Date 11/14/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	3.3 "J"	ug/l	2.4	7.7	10	8260B		11/24/2014	CJR	1
Bromobenzene	< 3.2	ug/l	3.2	10	10	8260B		11/24/2014	CJR	1
Bromodichloromethane	< 3.7	ug/l	3.7	12	10	8260B		11/24/2014	CJR	1
Bromoform	< 3.5	ug/l	3.5	11	10	8260B		11/24/2014	CJR	1
tert-Butylbenzene	< 3.6	ug/l	3.6	12	10	8260B		11/24/2014	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	10	10	8260B		11/24/2014	CJR	1
n-Butylbenzene	< 3.5	ug/l	3.5	11	10	8260B		11/24/2014	CJR	1
Carbon Tetrachloride	< 3.3	ug/l	3.3	11	10	8260B		11/24/2014	CJR	1
Chlorobenzene	< 2.4	ug/l	2.4	7.7	10	8260B		11/24/2014	CJR	1
Chloroethane	< 6.3	ug/l	6.3	20	10	8260B		11/24/2014	CJR	1
Chloroform	< 2.8	ug/l	2.8	8.8	10	8260B		11/24/2014	CJR	1
Chloromethane	< 8.1	ug/l	8.1	26	10	8260B		11/24/2014	CJR	1
2-Chlorotoluene	< 2.1	ug/l	2.1	6.6	10	8260B		11/24/2014	CJR	1
4-Chlorotoluene	< 2.1	ug/l	2.1	6.8	10	8260B		11/24/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 8.8	ug/l	8.8	28	10	8260B		11/24/2014	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	7	10	8260B		11/24/2014	CJR	1
1,4-Dichlorobenzene	< 3	ug/l	3	9.6	10	8260B		11/24/2014	CJR	1
1,3-Dichlorobenzene	< 2.8	ug/l	2.8	8.9	10	8260B		11/24/2014	CJR	1
1,2-Dichlorobenzene	< 3.6	ug/l	3.6	12	10	8260B		11/24/2014	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	14	10	8260B		11/24/2014	CJR	1
1,2-Dichloroethane	< 4.1	ug/l	4.1	13	10	8260B		11/24/2014	CJR	1
1,1-Dichloroethane	< 3	ug/l	3	9.7	10	8260B		11/24/2014	CJR	1
1,1-Dichloroethene	< 4	ug/l	4	13	10	8260B		11/24/2014	CJR	1
cis-1,2-Dichloroethene	800	ug/l	3.8	12	10	8260B		11/24/2014	CJR	1
trans-1,2-Dichloroethene	4.4 "J"	ug/l	3.5	11	10	8260B		11/24/2014	CJR	1
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10	8260B		11/24/2014	CJR	1
2,2-Dichloropropane	< 3.6	ug/l	3.6	12	10	8260B		11/24/2014	CJR	4 8
1,3-Dichloropropane	< 3.3	ug/l	3.3	10	10	8260B		11/24/2014	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B		11/24/2014	CJR	1
EDB (1,2-Dibromoethane)	< 4.4	ug/l	4.4	14	10	8260B		11/24/2014	CJR	1
Ethylbenzene	< 5.5	ug/l	5.5	17	10	8260B		11/24/2014	CJR	1
Hexachlorobutadiene	< 15	ug/l	15	48	10	8260B		11/24/2014	CJR	1
Isopropylbenzene	< 3	ug/l	3	9.6	10	8260B		11/24/2014	CJR	1
p-Isopropyltoluene	< 3.1	ug/l	3.1	9.8	10	8260B		11/24/2014	CJR	1
Methylene chloride	< 5	ug/l	5	16	10	8260B		11/24/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.3	ug/l	2.3	7.4	10	8260B		11/24/2014	CJR	1
Naphthalene	< 17	ug/l	17	55	10	8260B		11/24/2014	CJR	1
n-Propylbenzene	< 2.5	ug/l	2.5	8.1	10	8260B		11/24/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 4.5	ug/l	4.5	14	10	8260B		11/24/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 3.3	ug/l	3.3	11	10	8260B		11/24/2014	CJR	1
Tetrachloroethene	< 3.3	ug/l	3.3	11	10	8260B		11/24/2014	CJR	1
Toluene	< 6.9	ug/l	6.9	22	10	8260B		11/24/2014	CJR	1
1,2,4-Trichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		11/24/2014	CJR	1
1,2,3-Trichlorobenzene	< 18	ug/l	18	58	10	8260B		11/24/2014	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10	10	8260B		11/24/2014	CJR	1
1,1,2-Trichloroethane	< 3.4	ug/l	3.4	11	10	8260B		11/24/2014	CJR	1
Trichloroethene (TCE)	< 3.3	ug/l	3.3	10	10	8260B		11/24/2014	CJR	1
Trichlorofluoromethane	< 7.1	ug/l	7.1	23	10	8260B		11/24/2014	CJR	1
1,2,4-Trimethylbenzene	< 22	ug/l	22	69	10	8260B		11/24/2014	CJR	1
1,3,5-Trimethylbenzene	< 14	ug/l	14	45	10	8260B		11/24/2014	CJR	1
Vinyl Chloride	244	ug/l	1.8	5.7	10	8260B		11/24/2014	CJR	1
m&p-Xylene	< 6.9	ug/l	6.9	22	10	8260B		11/24/2014	CJR	1
o-Xylene	< 6.3	ug/l	6.3	20	10	8260B		11/24/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %				10 8260B		11/24/2014	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %				10 8260B		11/24/2014	CJR	1
SUR - Dibromofluoromethane	96	REC %				10 8260B		11/24/2014	CJR	1
SUR - Toluene-d8	97	REC %				10 8260B		11/24/2014	CJR	1

Lab Code 5028102C
 Sample ID PZ-24B
 Sample Matrix Water
 Sample Date 11/14/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	4.1 "J"	ug/l	2.4	7.7	10	8260B		11/25/2014	CJR	1
Bromobenzene	< 3.2	ug/l	3.2	10	10	8260B		11/25/2014	CJR	1
Bromodichloromethane	< 3.7	ug/l	3.7	12	10	8260B		11/25/2014	CJR	1
Bromoform	< 3.5	ug/l	3.5	11	10	8260B		11/25/2014	CJR	1
tert-Butylbenzene	< 3.6	ug/l	3.6	12	10	8260B		11/25/2014	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	10	10	8260B		11/25/2014	CJR	1
n-Butylbenzene	< 3.5	ug/l	3.5	11	10	8260B		11/25/2014	CJR	1
Carbon Tetrachloride	< 3.3	ug/l	3.3	11	10	8260B		11/25/2014	CJR	1
Chlorobenzene	< 2.4	ug/l	2.4	7.7	10	8260B		11/25/2014	CJR	1
Chloroethane	< 6.3	ug/l	6.3	20	10	8260B		11/25/2014	CJR	1
Chloroform	< 2.8	ug/l	2.8	8.8	10	8260B		11/25/2014	CJR	1
Chloromethane	< 8.1	ug/l	8.1	26	10	8260B		11/25/2014	CJR	1
2-Chlorotoluene	< 2.1	ug/l	2.1	6.6	10	8260B		11/25/2014	CJR	1
4-Chlorotoluene	< 2.1	ug/l	2.1	6.8	10	8260B		11/25/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 8.8	ug/l	8.8	28	10	8260B		11/25/2014	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	7	10	8260B		11/25/2014	CJR	1
1,4-Dichlorobenzene	< 3	ug/l	3	9.6	10	8260B		11/25/2014	CJR	1
1,3-Dichlorobenzene	< 2.8	ug/l	2.8	8.9	10	8260B		11/25/2014	CJR	1
1,2-Dichlorobenzene	< 3.6	ug/l	3.6	12	10	8260B		11/25/2014	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	14	10	8260B		11/25/2014	CJR	1
1,2-Dichloroethane	< 4.1	ug/l	4.1	13	10	8260B		11/25/2014	CJR	1
1,1-Dichloroethane	< 3	ug/l	3	9.7	10	8260B		11/25/2014	CJR	1
1,1-Dichloroethene	< 4	ug/l	4	13	10	8260B		11/25/2014	CJR	1
cis-1,2-Dichloroethene	360	ug/l	3.8	12	10	8260B		11/25/2014	CJR	1
trans-1,2-Dichloroethene	3.5 "J"	ug/l	3.5	11	10	8260B		11/25/2014	CJR	1
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10	8260B		11/25/2014	CJR	1
2,2-Dichloropropane	< 3.6	ug/l	3.6	12	10	8260B		11/25/2014	CJR	4 8
1,3-Dichloropropane	< 3.3	ug/l	3.3	10	10	8260B		11/25/2014	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B		11/25/2014	CJR	1
EDB (1,2-Dibromoethane)	< 4.4	ug/l	4.4	14	10	8260B		11/25/2014	CJR	1
Ethylbenzene	< 5.5	ug/l	5.5	17	10	8260B		11/25/2014	CJR	1
Hexachlorobutadiene	< 15	ug/l	15	48	10	8260B		11/25/2014	CJR	1
Isopropylbenzene	< 3	ug/l	3	9.6	10	8260B		11/25/2014	CJR	1
p-Isopropyltoluene	< 3.1	ug/l	3.1	9.8	10	8260B		11/25/2014	CJR	1
Methylene chloride	< 5	ug/l	5	16	10	8260B		11/25/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.3	ug/l	2.3	7.4	10	8260B		11/25/2014	CJR	1
Naphthalene	< 17	ug/l	17	55	10	8260B		11/25/2014	CJR	1
n-Propylbenzene	< 2.5	ug/l	2.5	8.1	10	8260B		11/25/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 4.5	ug/l	4.5	14	10	8260B		11/25/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 3.3	ug/l	3.3	11	10	8260B		11/25/2014	CJR	1
Tetrachloroethene	< 3.3	ug/l	3.3	11	10	8260B		11/25/2014	CJR	1
Toluene	< 6.9	ug/l	6.9	22	10	8260B		11/25/2014	CJR	1
1,2,4-Trichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		11/25/2014	CJR	1
1,2,3-Trichlorobenzene	< 18	ug/l	18	58	10	8260B		11/25/2014	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10	10	8260B		11/25/2014	CJR	1
1,1,2-Trichloroethane	< 3.4	ug/l	3.4	11	10	8260B		11/25/2014	CJR	1
Trichloroethene (TCE)	< 3.3	ug/l	3.3	10	10	8260B		11/25/2014	CJR	1
Trichlorofluoromethane	< 7.1	ug/l	7.1	23	10	8260B		11/25/2014	CJR	1
1,2,4-Trimethylbenzene	< 22	ug/l	22	69	10	8260B		11/25/2014	CJR	1
1,3,5-Trimethylbenzene	< 14	ug/l	14	45	10	8260B		11/25/2014	CJR	1
Vinyl Chloride	138	ug/l	1.8	5.7	10	8260B		11/25/2014	CJR	1
m&p-Xylene	< 6.9	ug/l	6.9	22	10	8260B		11/25/2014	CJR	1
o-Xylene	< 6.3	ug/l	6.3	20	10	8260B		11/25/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %				10 8260B		11/25/2014	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %				10 8260B		11/25/2014	CJR	1
SUR - Dibromofluoromethane	91	REC %				10 8260B		11/25/2014	CJR	1
SUR - Toluene-d8	96	REC %				10 8260B		11/25/2014	CJR	1

Lab Code 5028102D
 Sample ID WT-24
 Sample Matrix Water
 Sample Date 11/14/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/22/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
Chloroform	0.68 "J"	ug/l	0.28	0.88	1	8260B		11/22/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/22/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/22/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/22/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/22/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/22/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/22/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/22/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/22/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/22/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/22/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/22/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/22/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/22/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/22/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/22/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/22/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/22/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/22/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/22/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/22/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/22/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/22/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/22/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
SUR - 4-Bromofluorobenzene	95	REC %			1	8260B		11/22/2014	CJR	1
SUR - Dibromofluoromethane	87	REC %			1	8260B		11/22/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	92	REC %			1	8260B		11/22/2014	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		11/22/2014	CJR	1

Lab Code 5028102E
 Sample ID PZ-24A DUP
 Sample Matrix Water
 Sample Date 11/14/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	3.4 "J"	ug/l	2.4	7.7	10	8260B		11/24/2014	CJR	1
Bromobenzene	< 3.2	ug/l	3.2	10	10	8260B		11/24/2014	CJR	1
Bromodichloromethane	< 3.7	ug/l	3.7	12	10	8260B		11/24/2014	CJR	1
Bromoform	< 3.5	ug/l	3.5	11	10	8260B		11/24/2014	CJR	1
tert-Butylbenzene	< 3.6	ug/l	3.6	12	10	8260B		11/24/2014	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	10	10	8260B		11/24/2014	CJR	1
n-Butylbenzene	< 3.5	ug/l	3.5	11	10	8260B		11/24/2014	CJR	1
Carbon Tetrachloride	< 3.3	ug/l	3.3	11	10	8260B		11/24/2014	CJR	1
Chlorobenzene	< 2.4	ug/l	2.4	7.7	10	8260B		11/24/2014	CJR	1
Chloroethane	< 6.3	ug/l	6.3	20	10	8260B		11/24/2014	CJR	1
Chloroform	< 2.8	ug/l	2.8	8.8	10	8260B		11/24/2014	CJR	1
Chloromethane	< 8.1	ug/l	8.1	26	10	8260B		11/24/2014	CJR	1
2-Chlorotoluene	< 2.1	ug/l	2.1	6.6	10	8260B		11/24/2014	CJR	1
4-Chlorotoluene	< 2.1	ug/l	2.1	6.8	10	8260B		11/24/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 8.8	ug/l	8.8	28	10	8260B		11/24/2014	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	7	10	8260B		11/24/2014	CJR	1
1,4-Dichlorobenzene	< 3	ug/l	3	9.6	10	8260B		11/24/2014	CJR	1
1,3-Dichlorobenzene	< 2.8	ug/l	2.8	8.9	10	8260B		11/24/2014	CJR	1
1,2-Dichlorobenzene	< 3.6	ug/l	3.6	12	10	8260B		11/24/2014	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	14	10	8260B		11/24/2014	CJR	1
1,2-Dichloroethane	< 4.1	ug/l	4.1	13	10	8260B		11/24/2014	CJR	1
1,1-Dichloroethane	< 3	ug/l	3	9.7	10	8260B		11/24/2014	CJR	1
1,1-Dichloroethene	< 4	ug/l	4	13	10	8260B		11/24/2014	CJR	1
cis-1,2-Dichloroethene	800	ug/l	3.8	12	10	8260B		11/24/2014	CJR	1
trans-1,2-Dichloroethene	4.4 "J"	ug/l	3.5	11	10	8260B		11/24/2014	CJR	1
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10	8260B		11/24/2014	CJR	1
2,2-Dichloropropane	< 3.6	ug/l	3.6	12	10	8260B		11/24/2014	CJR	4 8
1,3-Dichloropropane	< 3.3	ug/l	3.3	10	10	8260B		11/24/2014	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B		11/24/2014	CJR	1
EDB (1,2-Dibromoethane)	< 4.4	ug/l	4.4	14	10	8260B		11/24/2014	CJR	1
Ethylbenzene	< 5.5	ug/l	5.5	17	10	8260B		11/24/2014	CJR	1
Hexachlorobutadiene	< 15	ug/l	15	48	10	8260B		11/24/2014	CJR	1
Isopropylbenzene	< 3	ug/l	3	9.6	10	8260B		11/24/2014	CJR	1
p-Isopropyltoluene	< 3.1	ug/l	3.1	9.8	10	8260B		11/24/2014	CJR	1
Methylene chloride	< 5	ug/l	5	16	10	8260B		11/24/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.3	ug/l	2.3	7.4	10	8260B		11/24/2014	CJR	1
Naphthalene	< 17	ug/l	17	55	10	8260B		11/24/2014	CJR	1
n-Propylbenzene	< 2.5	ug/l	2.5	8.1	10	8260B		11/24/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 4.5	ug/l	4.5	14	10	8260B		11/24/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 3.3	ug/l	3.3	11	10	8260B		11/24/2014	CJR	1
Tetrachloroethene	< 3.3	ug/l	3.3	11	10	8260B		11/24/2014	CJR	1
Toluene	< 6.9	ug/l	6.9	22	10	8260B		11/24/2014	CJR	1
1,2,4-Trichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		11/24/2014	CJR	1
1,2,3-Trichlorobenzene	< 18	ug/l	18	58	10	8260B		11/24/2014	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10	10	8260B		11/24/2014	CJR	1
1,1,2-Trichloroethane	< 3.4	ug/l	3.4	11	10	8260B		11/24/2014	CJR	1
Trichloroethene (TCE)	< 3.3	ug/l	3.3	10	10	8260B		11/24/2014	CJR	1
Trichlorofluoromethane	< 7.1	ug/l	7.1	23	10	8260B		11/24/2014	CJR	1
1,2,4-Trimethylbenzene	< 22	ug/l	22	69	10	8260B		11/24/2014	CJR	1
1,3,5-Trimethylbenzene	< 14	ug/l	14	45	10	8260B		11/24/2014	CJR	1
Vinyl Chloride	243	ug/l	1.8	5.7	10	8260B		11/24/2014	CJR	1
m&p-Xylene	< 6.9	ug/l	6.9	22	10	8260B		11/24/2014	CJR	1
o-Xylene	< 6.3	ug/l	6.3	20	10	8260B		11/24/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %				8260B		11/24/2014	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %				8260B		11/24/2014	CJR	1
SUR - Dibromofluoromethane	90	REC %				8260B		11/24/2014	CJR	1
SUR - Toluene-d8	93	REC %				8260B		11/24/2014	CJR	1

Lab Code 5028102F
Sample ID PZ-25C
Sample Matrix Water
Sample Date 11/14/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/22/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/22/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/22/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/22/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/22/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/22/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/22/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/22/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/22/2014	CJR	1
cis-1,2-Dichloroethene	1.87	ug/l	0.38	1.2	1	8260B		11/22/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/22/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/22/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/22/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/22/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/22/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/22/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/22/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/22/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/22/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/22/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/22/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/22/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/22/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/22/2014	CJR	1
Vinyl Chloride	0.24 "J"	ug/l	0.18	0.57	1	8260B		11/22/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		11/22/2014	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		11/22/2014	CJR	1
SUR - Dibromofluoromethane	85	REC %			1	8260B		11/22/2014	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		11/22/2014	CJR	1

Project

Lab Code 5028102G
Sample ID PZ-25B
Sample Matrix Water
Sample Date 11/14/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/22/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/22/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/22/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/22/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/22/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/22/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/22/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/22/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/22/2014	CJR	1
cis-1,2-Dichloroethene	1.16 "J"	ug/l	0.38	1.2	1	8260B		11/22/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/22/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/22/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/22/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/22/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/22/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/22/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/22/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/22/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/22/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/22/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/22/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/22/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/22/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/22/2014	CJR	1
Vinyl Chloride	0.33 "J"	ug/l	0.18	0.57	1	8260B		11/22/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		11/22/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1	8260B		11/22/2014	CJR	1
SUR - 4-Bromofluorobenzene	92	REC %			1	8260B		11/22/2014	CJR	1
SUR - Dibromofluoromethane	86	REC %			1	8260B		11/22/2014	CJR	1

Project

Lab Code 5028102H

Sample ID PZ-25A

Sample Matrix Water

Sample Date 11/14/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/22/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
Chloroform	0.84 "J"	ug/l	0.28	0.88	1	8260B		11/22/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/22/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/22/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/22/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/22/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/22/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/22/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/22/2014	CJR	1
cis-1,2-Dichloroethene	2.75	ug/l	0.38	1.2	1	8260B		11/22/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/22/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/22/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/22/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/22/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/22/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/22/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/22/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/22/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/22/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/22/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/22/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/22/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/22/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/22/2014	CJR	1
Vinyl Chloride	0.31 "J"	ug/l	0.18	0.57	1	8260B		11/22/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		11/22/2014	CJR	1
SUR - Toluene-d8	93	REC %			1	8260B		11/22/2014	CJR	1
SUR - Dibromofluoromethane	86	REC %			1	8260B		11/22/2014	CJR	1
SUR - 4-Bromofluorobenzene	95	REC %			1	8260B		11/22/2014	CJR	1

Lab Code 5028102I
Sample ID WT-25
Sample Matrix Water
Sample Date 11/14/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	1.14	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/22/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/22/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/22/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/22/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/22/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/22/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/22/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/22/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethene	0.41 "J"	ug/l	0.4	1.3	1	8260B		11/22/2014	CJR	1
cis-1,2-Dichloroethene	100	ug/l	0.38	1.2	1	8260B		11/22/2014	CJR	1
trans-1,2-Dichloroethene	0.46 "J"	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/22/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/22/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/22/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/22/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/22/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/22/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/22/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/22/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/22/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/22/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/22/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/22/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/22/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/22/2014	CJR	1
Vinyl Chloride	4.9	ug/l	0.18	0.57	1	8260B		11/22/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		11/22/2014	CJR	1
SUR - Dibromofluoromethane	93	REC %			1	8260B		11/22/2014	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		11/22/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		11/22/2014	CJR	1

Project

Lab Code 5028102J
 Sample ID PZ-12
 Sample Matrix Water
 Sample Date 11/17/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	67	ug/l	12	38.5	50	8260B		11/21/2014	CJR	1
Bromobenzene	< 16	ug/l	16	50	50	8260B		11/21/2014	CJR	1
Bromodichloromethane	< 18.5	ug/l	18.5	60	50	8260B		11/21/2014	CJR	1
Bromoform	< 17.5	ug/l	17.5	55	50	8260B		11/21/2014	CJR	1
tert-Butylbenzene	< 18	ug/l	18	60	50	8260B		11/21/2014	CJR	1
sec-Butylbenzene	< 16.5	ug/l	16.5	50	50	8260B		11/21/2014	CJR	1
n-Butylbenzene	< 17.5	ug/l	17.5	55	50	8260B		11/21/2014	CJR	1
Carbon Tetrachloride	< 16.5	ug/l	16.5	55	50	8260B		11/21/2014	CJR	1
Chlorobenzene	< 12	ug/l	12	38.5	50	8260B		11/21/2014	CJR	1
Chloroethane	< 31.5	ug/l	31.5	100	50	8260B		11/21/2014	CJR	1
Chloroform	< 14	ug/l	14	44	50	8260B		11/21/2014	CJR	1
Chloromethane	< 40.5	ug/l	40.5	130	50	8260B		11/21/2014	CJR	1
2-Chlorotoluene	< 10.5	ug/l	10.5	33	50	8260B		11/21/2014	CJR	1
4-Chlorotoluene	< 10.5	ug/l	10.5	34	50	8260B		11/21/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 44	ug/l	44	140	50	8260B		11/21/2014	CJR	1
Dibromochloromethane	< 11	ug/l	11	35	50	8260B		11/21/2014	CJR	1
1,4-Dichlorobenzene	< 15	ug/l	15	48	50	8260B		11/21/2014	CJR	1
1,3-Dichlorobenzene	< 14	ug/l	14	44.5	50	8260B		11/21/2014	CJR	1
1,2-Dichlorobenzene	< 18	ug/l	18	60	50	8260B		11/21/2014	CJR	1
Dichlorodifluoromethane	< 22	ug/l	22	70	50	8260B		11/21/2014	CJR	1
1,2-Dichloroethane	< 20.5	ug/l	20.5	65	50	8260B		11/21/2014	CJR	1
1,1-Dichloroethane	< 15	ug/l	15	48.5	50	8260B		11/21/2014	CJR	1
1,1-Dichloroethene	< 20	ug/l	20	65	50	8260B		11/21/2014	CJR	1
cis-1,2-Dichloroethene	4200	ug/l	19	60	50	8260B		11/21/2014	CJR	1
trans-1,2-Dichloroethene	< 17.5	ug/l	17.5	55	50	8260B		11/21/2014	CJR	1
1,2-Dichloropropane	< 16	ug/l	16	50	50	8260B		11/21/2014	CJR	1
2,2-Dichloropropane	< 18	ug/l	18	60	50	8260B		11/21/2014	CJR	8
1,3-Dichloropropane	< 16.5	ug/l	16.5	50	50	8260B		11/21/2014	CJR	1
Di-isopropyl ether	< 11.5	ug/l	11.5	36.5	50	8260B		11/21/2014	CJR	1
EDB (1,2-Dibromoethane)	< 22	ug/l	22	70	50	8260B		11/21/2014	CJR	1
Ethylbenzene	< 27.5	ug/l	27.5	85	50	8260B		11/21/2014	CJR	1
Hexachlorobutadiene	< 75	ug/l	75	240	50	8260B		11/21/2014	CJR	1
Isopropylbenzene	< 15	ug/l	15	48	50	8260B		11/21/2014	CJR	1
p-Isopropyltoluene	< 15.5	ug/l	15.5	49	50	8260B		11/21/2014	CJR	1
Methylene chloride	< 25	ug/l	25	80	50	8260B		11/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 11.5	ug/l	11.5	37	50	8260B		11/21/2014	CJR	1
Naphthalene	< 85	ug/l	85	275	50	8260B		11/21/2014	CJR	1
n-Propylbenzene	< 12.5	ug/l	12.5	40.5	50	8260B		11/21/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 22.5	ug/l	22.5	70	50	8260B		11/21/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 16.5	ug/l	16.5	55	50	8260B		11/21/2014	CJR	1
Tetrachloroethene	< 16.5	ug/l	16.5	55	50	8260B		11/21/2014	CJR	1
Toluene	< 34.5	ug/l	34.5	110	50	8260B		11/21/2014	CJR	1
1,2,4-Trichlorobenzene	< 49	ug/l	49	155	50	8260B		11/21/2014	CJR	1
1,2,3-Trichlorobenzene	< 90	ug/l	90	290	50	8260B		11/21/2014	CJR	1
1,1,1-Trichloroethane	< 16.5	ug/l	16.5	50	50	8260B		11/21/2014	CJR	1
1,1,2-Trichloroethane	< 17	ug/l	17	55	50	8260B		11/21/2014	CJR	1
Trichloroethene (TCE)	21.5 "J"	ug/l	16.5	50	50	8260B		11/21/2014	CJR	1
Trichlorofluoromethane	< 35.5	ug/l	35.5	115	50	8260B		11/21/2014	CJR	1
1,2,4-Trimethylbenzene	< 110	ug/l	110	345	50	8260B		11/21/2014	CJR	1
1,3,5-Trimethylbenzene	< 70	ug/l	70	225	50	8260B		11/21/2014	CJR	1
Vinyl Chloride	2550	ug/l	9	28.5	50	8260B		11/21/2014	CJR	1
m&p-Xylene	< 34.5	ug/l	34.5	110	50	8260B		11/21/2014	CJR	1
o-Xylene	< 31.5	ug/l	31.5	100	50	8260B		11/21/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %				8260B		11/21/2014	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %				8260B		11/21/2014	CJR	1
SUR - Dibromofluoromethane	90	REC %				8260B		11/21/2014	CJR	1
SUR - Toluene-d8	96	REC %				8260B		11/21/2014	CJR	1

Lab Code 5028102K
Sample ID WP-06
Sample Matrix Water
Sample Date 11/17/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/21/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/21/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/21/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/21/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/21/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/21/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/21/2014	CJR	1
cis-1,2-Dichloroethene	23.3	ug/l	0.38	1.2	1	8260B		11/21/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/21/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/21/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/21/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/21/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/21/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/21/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/21/2014	CJR	1
1,1,1-Trichloroethane	0.57 "J"	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2014	CJR	1
Trichloroethene (TCE)	3.9	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/21/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/21/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/21/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/21/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		11/21/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		11/21/2014	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		11/21/2014	CJR	1
SUR - Dibromofluoromethane	86	REC %			1	8260B		11/21/2014	CJR	1

Lab Code 5028102L
 Sample ID WT-12
 Sample Matrix Water
 Sample Date 11/17/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 12	ug/l	12	38.5	50	8260B		11/21/2014	CJR	1
Bromobenzene	< 16	ug/l	16	50	50	8260B		11/21/2014	CJR	1
Bromodichloromethane	< 18.5	ug/l	18.5	60	50	8260B		11/21/2014	CJR	1
Bromoform	< 17.5	ug/l	17.5	55	50	8260B		11/21/2014	CJR	1
tert-Butylbenzene	< 18	ug/l	18	60	50	8260B		11/21/2014	CJR	1
sec-Butylbenzene	< 16.5	ug/l	16.5	50	50	8260B		11/21/2014	CJR	1
n-Butylbenzene	< 17.5	ug/l	17.5	55	50	8260B		11/21/2014	CJR	1
Carbon Tetrachloride	< 16.5	ug/l	16.5	55	50	8260B		11/21/2014	CJR	1
Chlorobenzene	< 12	ug/l	12	38.5	50	8260B		11/21/2014	CJR	1
Chloroethane	< 31.5	ug/l	31.5	100	50	8260B		11/21/2014	CJR	1
Chloroform	< 14	ug/l	14	44	50	8260B		11/21/2014	CJR	1
Chloromethane	< 40.5	ug/l	40.5	130	50	8260B		11/21/2014	CJR	1
2-Chlorotoluene	< 10.5	ug/l	10.5	33	50	8260B		11/21/2014	CJR	1
4-Chlorotoluene	< 10.5	ug/l	10.5	34	50	8260B		11/21/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 44	ug/l	44	140	50	8260B		11/21/2014	CJR	1
Dibromochloromethane	< 11	ug/l	11	35	50	8260B		11/21/2014	CJR	1
1,4-Dichlorobenzene	< 15	ug/l	15	48	50	8260B		11/21/2014	CJR	1
1,3-Dichlorobenzene	< 14	ug/l	14	44.5	50	8260B		11/21/2014	CJR	1
1,2-Dichlorobenzene	< 18	ug/l	18	60	50	8260B		11/21/2014	CJR	1
Dichlorodifluoromethane	< 22	ug/l	22	70	50	8260B		11/21/2014	CJR	1
1,2-Dichloroethane	< 20.5	ug/l	20.5	65	50	8260B		11/21/2014	CJR	1
1,1-Dichloroethane	< 15	ug/l	15	48.5	50	8260B		11/21/2014	CJR	1
1,1-Dichloroethene	< 20	ug/l	20	65	50	8260B		11/21/2014	CJR	1
cis-1,2-Dichloroethene	1170	ug/l	19	60	50	8260B		11/21/2014	CJR	1
trans-1,2-Dichloroethene	< 17.5	ug/l	17.5	55	50	8260B		11/21/2014	CJR	1
1,2-Dichloropropane	< 16	ug/l	16	50	50	8260B		11/21/2014	CJR	1
2,2-Dichloropropane	< 18	ug/l	18	60	50	8260B		11/21/2014	CJR	8
1,3-Dichloropropane	< 16.5	ug/l	16.5	50	50	8260B		11/21/2014	CJR	1
Di-isopropyl ether	< 11.5	ug/l	11.5	36.5	50	8260B		11/21/2014	CJR	1
EDB (1,2-Dibromoethane)	< 22	ug/l	22	70	50	8260B		11/21/2014	CJR	1
Ethylbenzene	< 27.5	ug/l	27.5	85	50	8260B		11/21/2014	CJR	1
Hexachlorobutadiene	< 75	ug/l	75	240	50	8260B		11/21/2014	CJR	1
Isopropylbenzene	< 15	ug/l	15	48	50	8260B		11/21/2014	CJR	1
p-Isopropyltoluene	< 15.5	ug/l	15.5	49	50	8260B		11/21/2014	CJR	1
Methylene chloride	< 25	ug/l	25	80	50	8260B		11/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 11.5	ug/l	11.5	37	50	8260B		11/21/2014	CJR	1
Naphthalene	< 85	ug/l	85	275	50	8260B		11/21/2014	CJR	1
n-Propylbenzene	< 12.5	ug/l	12.5	40.5	50	8260B		11/21/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 22.5	ug/l	22.5	70	50	8260B		11/21/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 16.5	ug/l	16.5	55	50	8260B		11/21/2014	CJR	1
Tetrachloroethene	< 16.5	ug/l	16.5	55	50	8260B		11/21/2014	CJR	1
Toluene	< 34.5	ug/l	34.5	110	50	8260B		11/21/2014	CJR	1
1,2,4-Trichlorobenzene	< 49	ug/l	49	155	50	8260B		11/21/2014	CJR	1
1,2,3-Trichlorobenzene	< 90	ug/l	90	290	50	8260B		11/21/2014	CJR	1
1,1,1-Trichloroethane	< 16.5	ug/l	16.5	50	50	8260B		11/21/2014	CJR	1
1,1,2-Trichloroethane	< 17	ug/l	17	55	50	8260B		11/21/2014	CJR	1
Trichloroethene (TCE)	22.5 "J"	ug/l	16.5	50	50	8260B		11/21/2014	CJR	1
Trichlorofluoromethane	< 35.5	ug/l	35.5	115	50	8260B		11/21/2014	CJR	1
1,2,4-Trimethylbenzene	< 110	ug/l	110	345	50	8260B		11/21/2014	CJR	1
1,3,5-Trimethylbenzene	< 70	ug/l	70	225	50	8260B		11/21/2014	CJR	1
Vinyl Chloride	< 9	ug/l	9	28.5	50	8260B		11/21/2014	CJR	1
m&p-Xylene	< 34.5	ug/l	34.5	110	50	8260B		11/21/2014	CJR	1
o-Xylene	< 31.5	ug/l	31.5	100	50	8260B		11/21/2014	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %				8260B		11/21/2014	CJR	1
SUR - Dibromofluoromethane	86	REC %				8260B		11/21/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	85	REC %				8260B		11/21/2014	CJR	1
SUR - Toluene-d8	95	REC %				8260B		11/21/2014	CJR	1

Lab Code 5028102M
Sample ID WT-12 DUP
Sample Matrix Water
Sample Date 11/17/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 12	ug/l	12	38.5	50	8260B		11/21/2014	CJR	1
Bromobenzene	< 16	ug/l	16	50	50	8260B		11/21/2014	CJR	1
Bromodichloromethane	< 18.5	ug/l	18.5	60	50	8260B		11/21/2014	CJR	1
Bromoform	< 17.5	ug/l	17.5	55	50	8260B		11/21/2014	CJR	1
tert-Butylbenzene	< 18	ug/l	18	60	50	8260B		11/21/2014	CJR	1
sec-Butylbenzene	< 16.5	ug/l	16.5	50	50	8260B		11/21/2014	CJR	1
n-Butylbenzene	< 17.5	ug/l	17.5	55	50	8260B		11/21/2014	CJR	1
Carbon Tetrachloride	< 16.5	ug/l	16.5	55	50	8260B		11/21/2014	CJR	1
Chlorobenzene	< 12	ug/l	12	38.5	50	8260B		11/21/2014	CJR	1
Chloroethane	< 31.5	ug/l	31.5	100	50	8260B		11/21/2014	CJR	1
Chloroform	< 14	ug/l	14	44	50	8260B		11/21/2014	CJR	1
Chloromethane	< 40.5	ug/l	40.5	130	50	8260B		11/21/2014	CJR	1
2-Chlorotoluene	< 10.5	ug/l	10.5	33	50	8260B		11/21/2014	CJR	1
4-Chlorotoluene	< 10.5	ug/l	10.5	34	50	8260B		11/21/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 44	ug/l	44	140	50	8260B		11/21/2014	CJR	1
Dibromochloromethane	< 11	ug/l	11	35	50	8260B		11/21/2014	CJR	1
1,4-Dichlorobenzene	< 15	ug/l	15	48	50	8260B		11/21/2014	CJR	1
1,3-Dichlorobenzene	< 14	ug/l	14	44.5	50	8260B		11/21/2014	CJR	1
1,2-Dichlorobenzene	< 18	ug/l	18	60	50	8260B		11/21/2014	CJR	1
Dichlorodifluoromethane	< 22	ug/l	22	70	50	8260B		11/21/2014	CJR	1
1,2-Dichloroethane	< 20.5	ug/l	20.5	65	50	8260B		11/21/2014	CJR	1
1,1-Dichloroethane	< 15	ug/l	15	48.5	50	8260B		11/21/2014	CJR	1
1,1-Dichloroethene	< 20	ug/l	20	65	50	8260B		11/21/2014	CJR	1
cis-1,2-Dichloroethene	1100	ug/l	19	60	50	8260B		11/21/2014	CJR	1
trans-1,2-Dichloroethene	< 17.5	ug/l	17.5	55	50	8260B		11/21/2014	CJR	1
1,2-Dichloropropane	< 16	ug/l	16	50	50	8260B		11/21/2014	CJR	1
2,2-Dichloropropane	< 18	ug/l	18	60	50	8260B		11/21/2014	CJR	8
1,3-Dichloropropane	< 16.5	ug/l	16.5	50	50	8260B		11/21/2014	CJR	1
Di-isopropyl ether	< 11.5	ug/l	11.5	36.5	50	8260B		11/21/2014	CJR	1
EDB (1,2-Dibromoethane)	< 22	ug/l	22	70	50	8260B		11/21/2014	CJR	1
Ethylbenzene	< 27.5	ug/l	27.5	85	50	8260B		11/21/2014	CJR	1
Hexachlorobutadiene	< 75	ug/l	75	240	50	8260B		11/21/2014	CJR	1
Isopropylbenzene	< 15	ug/l	15	48	50	8260B		11/21/2014	CJR	1
p-Isopropyltoluene	< 15.5	ug/l	15.5	49	50	8260B		11/21/2014	CJR	1
Methylene chloride	< 25	ug/l	25	80	50	8260B		11/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 11.5	ug/l	11.5	37	50	8260B		11/21/2014	CJR	3
Naphthalene	< 85	ug/l	85	275	50	8260B		11/21/2014	CJR	1
n-Propylbenzene	< 12.5	ug/l	12.5	40.5	50	8260B		11/21/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 22.5	ug/l	22.5	70	50	8260B		11/21/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 16.5	ug/l	16.5	55	50	8260B		11/21/2014	CJR	1
Tetrachloroethene	< 16.5	ug/l	16.5	55	50	8260B		11/21/2014	CJR	1
Toluene	< 34.5	ug/l	34.5	110	50	8260B		11/21/2014	CJR	1
1,2,4-Trichlorobenzene	< 49	ug/l	49	155	50	8260B		11/21/2014	CJR	1
1,2,3-Trichlorobenzene	< 90	ug/l	90	290	50	8260B		11/21/2014	CJR	1
1,1,1-Trichloroethane	< 16.5	ug/l	16.5	50	50	8260B		11/21/2014	CJR	1
1,1,2-Trichloroethane	< 17	ug/l	17	55	50	8260B		11/21/2014	CJR	1
Trichloroethene (TCE)	20.5 "J"	ug/l	16.5	50	50	8260B		11/21/2014	CJR	1
Trichlorofluoromethane	< 35.5	ug/l	35.5	115	50	8260B		11/21/2014	CJR	1
1,2,4-Trimethylbenzene	< 110	ug/l	110	345	50	8260B		11/21/2014	CJR	1
1,3,5-Trimethylbenzene	< 70	ug/l	70	225	50	8260B		11/21/2014	CJR	1
Vinyl Chloride	11.5 "J"	ug/l	9	28.5	50	8260B		11/21/2014	CJR	1
m&p-Xylene	< 34.5	ug/l	34.5	110	50	8260B		11/21/2014	CJR	1
o-Xylene	< 31.5	ug/l	31.5	100	50	8260B		11/21/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %				50	8260B	11/21/2014	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %				50	8260B	11/21/2014	CJR	1
SUR - Dibromofluoromethane	86	REC %				50	8260B	11/21/2014	CJR	1
SUR - Toluene-d8	95	REC %				50	8260B	11/21/2014	CJR	1

Project #

Lab Code 5028102N
 Sample ID WT-11
 Sample Matrix Water
 Sample Date 11/17/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 2.4	ug/l	2.4	7.7	10	8260B		11/22/2014	CJR	1
Bromobenzene	< 3.2	ug/l	3.2	10	10	8260B		11/22/2014	CJR	1
Bromodichloromethane	< 3.7	ug/l	3.7	12	10	8260B		11/22/2014	CJR	1
Bromoform	< 3.5	ug/l	3.5	11	10	8260B		11/22/2014	CJR	1
tert-Butylbenzene	< 3.6	ug/l	3.6	12	10	8260B		11/22/2014	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	10	10	8260B		11/22/2014	CJR	1
n-Butylbenzene	< 3.5	ug/l	3.5	11	10	8260B		11/22/2014	CJR	1
Carbon Tetrachloride	< 3.3	ug/l	3.3	11	10	8260B		11/22/2014	CJR	1
Chlorobenzene	< 2.4	ug/l	2.4	7.7	10	8260B		11/22/2014	CJR	1
Chloroethane	< 6.3	ug/l	6.3	20	10	8260B		11/22/2014	CJR	1
Chloroform	< 2.8	ug/l	2.8	8.8	10	8260B		11/22/2014	CJR	1
Chloromethane	< 8.1	ug/l	8.1	26	10	8260B		11/22/2014	CJR	1
2-Chlorotoluene	< 2.1	ug/l	2.1	6.6	10	8260B		11/22/2014	CJR	1
4-Chlorotoluene	< 2.1	ug/l	2.1	6.8	10	8260B		11/22/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 8.8	ug/l	8.8	28	10	8260B		11/22/2014	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	7	10	8260B		11/22/2014	CJR	1
1,4-Dichlorobenzene	< 3	ug/l	3	9.6	10	8260B		11/22/2014	CJR	1
1,3-Dichlorobenzene	< 2.8	ug/l	2.8	8.9	10	8260B		11/22/2014	CJR	1
1,2-Dichlorobenzene	< 3.6	ug/l	3.6	12	10	8260B		11/22/2014	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	14	10	8260B		11/22/2014	CJR	1
1,2-Dichloroethane	< 4.1	ug/l	4.1	13	10	8260B		11/22/2014	CJR	1
1,1-Dichloroethane	< 3	ug/l	3	9.7	10	8260B		11/22/2014	CJR	1
1,1-Dichloroethene	< 4	ug/l	4	13	10	8260B		11/22/2014	CJR	1
cis-1,2-Dichloroethene	420	ug/l	3.8	12	10	8260B		11/22/2014	CJR	1
trans-1,2-Dichloroethene	< 3.5	ug/l	3.5	11	10	8260B		11/22/2014	CJR	1
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10	8260B		11/22/2014	CJR	1
2,2-Dichloropropane	< 3.6	ug/l	3.6	12	10	8260B		11/22/2014	CJR	8
1,3-Dichloropropane	< 3.3	ug/l	3.3	10	10	8260B		11/22/2014	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B		11/22/2014	CJR	1
EDB (1,2-Dibromoethane)	< 4.4	ug/l	4.4	14	10	8260B		11/22/2014	CJR	1
Ethylbenzene	< 5.5	ug/l	5.5	17	10	8260B		11/22/2014	CJR	1
Hexachlorobutadiene	< 15	ug/l	15	48	10	8260B		11/22/2014	CJR	1
Isopropylbenzene	< 3	ug/l	3	9.6	10	8260B		11/22/2014	CJR	1
p-Isopropyltoluene	< 3.1	ug/l	3.1	9.8	10	8260B		11/22/2014	CJR	1
Methylene chloride	< 5	ug/l	5	16	10	8260B		11/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.3	ug/l	2.3	7.4	10	8260B		11/22/2014	CJR	1
Naphthalene	< 17	ug/l	17	55	10	8260B		11/22/2014	CJR	1
n-Propylbenzene	< 2.5	ug/l	2.5	8.1	10	8260B		11/22/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 4.5	ug/l	4.5	14	10	8260B		11/22/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 3.3	ug/l	3.3	11	10	8260B		11/22/2014	CJR	1
Tetrachloroethene	< 3.3	ug/l	3.3	11	10	8260B		11/22/2014	CJR	1
Toluene	< 6.9	ug/l	6.9	22	10	8260B		11/22/2014	CJR	1
1,2,4-Trichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		11/22/2014	CJR	1
1,2,3-Trichlorobenzene	< 18	ug/l	18	58	10	8260B		11/22/2014	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10	10	8260B		11/22/2014	CJR	1
1,1,2-Trichloroethane	< 3.4	ug/l	3.4	11	10	8260B		11/22/2014	CJR	1
Trichloroethene (TCE)	7.9 "J"	ug/l	3.3	10	10	8260B		11/22/2014	CJR	1
Trichlorofluoromethane	< 7.1	ug/l	7.1	23	10	8260B		11/22/2014	CJR	1
1,2,4-Trimethylbenzene	< 22	ug/l	22	69	10	8260B		11/22/2014	CJR	1
1,3,5-Trimethylbenzene	< 14	ug/l	14	45	10	8260B		11/22/2014	CJR	1
Vinyl Chloride	< 1.8	ug/l	1.8	5.7	10	8260B		11/22/2014	CJR	1
m&p-Xylene	< 6.9	ug/l	6.9	22	10	8260B		11/22/2014	CJR	1
o-Xylene	< 6.3	ug/l	6.3	20	10	8260B		11/22/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %				8260B		11/22/2014	CJR	1
SUR - 4-Bromofluorobenzene	95	REC %				8260B		11/22/2014	CJR	1
SUR - Dibromofluoromethane	87	REC %				8260B		11/22/2014	CJR	1
SUR - Toluene-d8	96	REC %				8260B		11/22/2014	CJR	1

Lab Code 50281020
 Sample ID PZ-15A
 Sample Matrix Water
 Sample Date 11/17/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/21/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/21/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/21/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/21/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/21/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/21/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/21/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/21/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/21/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/21/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/21/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/21/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/21/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/21/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/21/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/21/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/21/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/21/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		11/21/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1	8260B		11/21/2014	CJR	1
SUR - 4-Bromofluorobenzene	94	REC %			1	8260B		11/21/2014	CJR	1
SUR - Dibromofluoromethane	86	REC %			1	8260B		11/21/2014	CJR	1

Project

Lab Code 5028102P
 Sample ID PZ-15B
 Sample Matrix Water
 Sample Date 11/17/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/21/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/21/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/21/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/21/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/21/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/21/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/21/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/21/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/21/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/21/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/21/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/21/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/21/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/21/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/21/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/21/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/21/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/21/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		11/21/2014	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		11/21/2014	CJR	1
SUR - Dibromofluoromethane	86	REC %			1	8260B		11/21/2014	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		11/21/2014	CJR	1

Lab Code 5028102Q
Sample ID WT-15
Sample Matrix Water
Sample Date 11/17/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/21/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/21/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/21/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/21/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/21/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/21/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/21/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/21/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/21/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/21/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/21/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/21/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/21/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/21/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/21/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/21/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/21/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/21/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		11/21/2014	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		11/21/2014	CJR	1
SUR - Dibromofluoromethane	82	REC %			1	8260B		11/21/2014	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		11/21/2014	CJR	1

Project

Lab Code 5028102R

Sample ID PZ-05B

Sample Matrix Water

Sample Date 11/17/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/21/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/21/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/21/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/21/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/21/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/21/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/21/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/21/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/21/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/21/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/21/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/21/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/21/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/21/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/21/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/21/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/21/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/21/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	91	REC %			1	8260B		11/21/2014	CJR	1
SUR - 4-Bromofluorobenzene	95	REC %			1	8260B		11/21/2014	CJR	1
SUR - Dibromofluoromethane	85	REC %			1	8260B		11/21/2014	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		11/21/2014	CJR	1

Lab Code 5028102S
 Sample ID PZ-05A
 Sample Matrix Water
 Sample Date 11/17/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/21/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/21/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/21/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/21/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/21/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/21/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/21/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/21/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/21/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/21/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/21/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/21/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/21/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/21/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/21/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/21/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/21/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/21/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		11/21/2014	CJR	1
SUR - Dibromofluoromethane	85	REC %			1	8260B		11/21/2014	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		11/21/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		11/21/2014	CJR	1

Lab Code 5028102T
 Sample ID WT-05
 Sample Matrix Water
 Sample Date 11/17/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/21/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/21/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/21/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/21/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/21/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/21/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/21/2014	CJR	1
cis-1,2-Dichloroethene	45	ug/l	0.38	1.2	1	8260B		11/21/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/21/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/21/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/21/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/21/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/21/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/21/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/21/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2014	CJR	1
Trichloroethene (TCE)	1.75	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/21/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/21/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/21/2014	CJR	1
Vinyl Chloride	1.26	ug/l	0.18	0.57	1	8260B		11/21/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		11/21/2014	CJR	1
SUR - Dibromofluoromethane	88	REC %			1	8260B		11/21/2014	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		11/21/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	93	REC %			1	8260B		11/21/2014	CJR	1

Project

Lab Code 5028102U
 Sample ID WT+13
 Sample Matrix Water
 Sample Date 11/18/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/21/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/21/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/21/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/21/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/21/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/21/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/21/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/21/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/21/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/21/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/21/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/21/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/21/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/21/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/21/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/21/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/21/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/21/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1	8260B		11/21/2014	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		11/21/2014	CJR	1
SUR - Dibromofluoromethane	87	REC %			1	8260B		11/21/2014	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		11/21/2014	CJR	1

Lab Code 5028102V
 Sample ID WT-03
 Sample Matrix Water
 Sample Date 11/18/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/21/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/21/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/21/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/21/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/21/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/21/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethene	0.48 "J"	ug/l	0.4	1.3	1	8260B		11/21/2014	CJR	1
cis-1,2-Dichloroethene	53	ug/l	0.38	1.2	1	8260B		11/21/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/21/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/21/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/21/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/21/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/21/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Tetrachloroethene	0.41 "J"	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/21/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/21/2014	CJR	1
1,1,1-Trichloroethane	3.5	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2014	CJR	1
Trichloroethene (TCE)	43	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/21/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/21/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/21/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/21/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1	8260B		11/21/2014	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		11/21/2014	CJR	1
SUR - Dibromofluoromethane	86	REC %			1	8260B		11/21/2014	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		11/21/2014	CJR	1

Lab Code 5028102W
 Sample ID PZ-03
 Sample Matrix Water
 Sample Date 11/18/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/21/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/21/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/21/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/21/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/21/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/21/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/21/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/21/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/21/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/21/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/21/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/21/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/21/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/21/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/21/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/21/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/21/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/21/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		11/21/2014	CJR	1
SUR - Dibromofluoromethane	89	REC %			1	8260B		11/21/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		11/21/2014	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		11/21/2014	CJR	1

Lab Code 5028102X
 Sample ID WT-17
 Sample Matrix Water
 Sample Date 11/18/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/21/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/21/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/21/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/21/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/21/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/21/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethane	0.97	ug/l	0.3	0.97	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethene	0.78 "J"	ug/l	0.4	1.3	1	8260B		11/21/2014	CJR	1
cis-1,2-Dichloroethene	176	ug/l	0.38	1.2	1	8260B		11/21/2014	CJR	1
trans-1,2-Dichloroethene	1.31	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/21/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/21/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/21/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/21/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/21/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Tetrachloroethene	0.44 "J"	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/21/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/21/2014	CJR	1
1,1,1-Trichloroethane	4.2	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2014	CJR	1
Trichloroethene (TCE)	45	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/21/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/21/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/21/2014	CJR	1
Vinyl Chloride	0.50 "J"	ug/l	0.18	0.57	1	8260B		11/21/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		11/21/2014	CJR	1
SUR - Dibromofluoromethane	87	REC %			1	8260B		11/21/2014	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		11/21/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	92	REC %			1	8260B		11/21/2014	CJR	1

Project #

Lab Code 5028102Y
 Sample ID PZ-02
 Sample Matrix Water
 Sample Date 11/18/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/22/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/22/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/22/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/22/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/22/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/22/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/22/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/22/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/22/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/22/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/22/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/22/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/22/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/22/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/22/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/22/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/22/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/22/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/22/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/22/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/22/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/22/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/22/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/22/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/22/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		11/22/2014	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %			1	8260B		11/22/2014	CJR	1
SUR - Dibromofluoromethane	83	REC %			1	8260B		11/22/2014	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		11/22/2014	CJR	1

Project

Lab Code 5028102Z
 Sample ID PZ-02 DUP
 Sample Matrix Water
 Sample Date 11/18/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/22/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/22/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/22/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/22/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/22/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/22/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/22/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/22/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/22/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/22/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/22/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/22/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/22/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/22/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/22/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/22/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/22/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/22/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/22/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/22/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/22/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/22/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/22/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/22/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/22/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		11/22/2014	CJR	1
SUR - Dibromofluoromethane	86	REC %			1	8260B		11/22/2014	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %			1	8260B		11/22/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		11/22/2014	CJR	1

Lab Code 528102AA
 Sample ID WT-10
 Sample Matrix Water
 Sample Date 11/18/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	20 "J"	ug/l	12	38.5	50	8260B		11/24/2014	CJR	1
Bromobenzene	< 16	ug/l	16	50	50	8260B		11/24/2014	CJR	1
Bromodichloromethane	< 18.5	ug/l	18.5	60	50	8260B		11/24/2014	CJR	1
Bromoform	< 17.5	ug/l	17.5	55	50	8260B		11/24/2014	CJR	1
tert-Butylbenzene	< 18	ug/l	18	60	50	8260B		11/24/2014	CJR	1
sec-Butylbenzene	< 16.5	ug/l	16.5	50	50	8260B		11/24/2014	CJR	1
n-Butylbenzene	< 17.5	ug/l	17.5	55	50	8260B		11/24/2014	CJR	1
Carbon Tetrachloride	< 16.5	ug/l	16.5	55	50	8260B		11/24/2014	CJR	1
Chlorobenzene	< 12	ug/l	12	38.5	50	8260B		11/24/2014	CJR	1
Chloroethane	< 31.5	ug/l	31.5	100	50	8260B		11/24/2014	CJR	1
Chloroform	< 14	ug/l	14	44	50	8260B		11/24/2014	CJR	1
Chloromethane	< 40.5	ug/l	40.5	130	50	8260B		11/24/2014	CJR	1
2-Chlorotoluene	< 10.5	ug/l	10.5	33	50	8260B		11/24/2014	CJR	1
4-Chlorotoluene	< 10.5	ug/l	10.5	34	50	8260B		11/24/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 44	ug/l	44	140	50	8260B		11/24/2014	CJR	1
Dibromochloromethane	< 11	ug/l	11	35	50	8260B		11/24/2014	CJR	1
1,4-Dichlorobenzene	< 15	ug/l	15	48	50	8260B		11/24/2014	CJR	1
1,3-Dichlorobenzene	< 14	ug/l	14	44.5	50	8260B		11/24/2014	CJR	1
1,2-Dichlorobenzene	< 18	ug/l	18	60	50	8260B		11/24/2014	CJR	1
Dichlorodifluoromethane	< 22	ug/l	22	70	50	8260B		11/24/2014	CJR	1
1,2-Dichloroethane	< 20.5	ug/l	20.5	65	50	8260B		11/24/2014	CJR	1
1,1-Dichloroethane	< 15	ug/l	15	48.5	50	8260B		11/24/2014	CJR	1
1,1-Dichloroethene	< 20	ug/l	20	65	50	8260B		11/24/2014	CJR	1
cis-1,2-Dichloroethene	3090	ug/l	19	60	50	8260B		11/24/2014	CJR	1
trans-1,2-Dichloroethene	< 17.5	ug/l	17.5	55	50	8260B		11/24/2014	CJR	1
1,2-Dichloropropane	< 16	ug/l	16	50	50	8260B		11/24/2014	CJR	1
2,2-Dichloropropane	< 18	ug/l	18	60	50	8260B		11/24/2014	CJR	4 8
1,3-Dichloropropane	< 16.5	ug/l	16.5	50	50	8260B		11/24/2014	CJR	1
Di-isopropyl ether	< 11.5	ug/l	11.5	36.5	50	8260B		11/24/2014	CJR	1
EDB (1,2-Dibromoethane)	< 22	ug/l	22	70	50	8260B		11/24/2014	CJR	1
Ethylbenzene	< 27.5	ug/l	27.5	85	50	8260B		11/24/2014	CJR	1
Hexachlorobutadiene	< 75	ug/l	75	240	50	8260B		11/24/2014	CJR	1
Isopropylbenzene	< 15	ug/l	15	48	50	8260B		11/24/2014	CJR	1
p-Isopropyltoluene	< 15.5	ug/l	15.5	49	50	8260B		11/24/2014	CJR	1
Methylene chloride	< 25	ug/l	25	80	50	8260B		11/24/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 11.5	ug/l	11.5	37	50	8260B		11/24/2014	CJR	1
Naphthalene	< 85	ug/l	85	275	50	8260B		11/24/2014	CJR	1
n-Propylbenzene	< 12.5	ug/l	12.5	40.5	50	8260B		11/24/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 22.5	ug/l	22.5	70	50	8260B		11/24/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 16.5	ug/l	16.5	55	50	8260B		11/24/2014	CJR	1
Tetrachloroethene	< 16.5	ug/l	16.5	55	50	8260B		11/24/2014	CJR	1
Toluene	106 "J"	ug/l	34.5	110	50	8260B		11/24/2014	CJR	1
1,2,4-Trichlorobenzene	< 49	ug/l	49	155	50	8260B		11/24/2014	CJR	1
1,2,3-Trichlorobenzene	< 90	ug/l	90	290	50	8260B		11/24/2014	CJR	1
1,1,1-Trichloroethane	< 16.5	ug/l	16.5	50	50	8260B		11/24/2014	CJR	1
1,1,2-Trichloroethane	< 17	ug/l	17	55	50	8260B		11/24/2014	CJR	1
Trichloroethene (TCE)	< 16.5	ug/l	16.5	50	50	8260B		11/24/2014	CJR	1
Trichlorofluoromethane	< 35.5	ug/l	35.5	115	50	8260B		11/24/2014	CJR	1
1,2,4-Trimethylbenzene	< 110	ug/l	110	345	50	8260B		11/24/2014	CJR	1
1,3,5-Trimethylbenzene	< 70	ug/l	70	225	50	8260B		11/24/2014	CJR	1
Vinyl Chloride	2180	ug/l	9	28.5	50	8260B		11/24/2014	CJR	1
m&p-Xylene	50 "J"	ug/l	34.5	110	50	8260B		11/24/2014	CJR	1
o-Xylene	< 31.5	ug/l	31.5	100	50	8260B		11/24/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %				8260B		11/24/2014	CJR	1
SUR - 4-Bromofluorobenzene	94	REC %				8260B		11/24/2014	CJR	1
SUR - Dibromofluoromethane	93	REC %				8260B		11/24/2014	CJR	1
SUR - Toluene-d8	95	REC %				8260B		11/24/2014	CJR	1

Lab Code 528102BB
Sample ID WT-18
Sample Matrix Water
Sample Date 11/18/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	58	ug/l	2.4	7.7	10	8260B		11/24/2014	CJR	1
Bromobenzene	< 3.2	ug/l	3.2	10	10	8260B		11/24/2014	CJR	1
Bromodichloromethane	< 3.7	ug/l	3.7	12	10	8260B		11/24/2014	CJR	1
Bromoform	< 3.5	ug/l	3.5	11	10	8260B		11/24/2014	CJR	1
tert-Butylbenzene	< 3.6	ug/l	3.6	12	10	8260B		11/24/2014	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	10	10	8260B		11/24/2014	CJR	1
n-Butylbenzene	< 3.5	ug/l	3.5	11	10	8260B		11/24/2014	CJR	1
Carbon Tetrachloride	< 3.3	ug/l	3.3	11	10	8260B		11/24/2014	CJR	1
Chlorobenzene	< 2.4	ug/l	2.4	7.7	10	8260B		11/24/2014	CJR	1
Chloroethane	< 6.3	ug/l	6.3	20	10	8260B		11/24/2014	CJR	1
Chloroform	< 2.8	ug/l	2.8	8.8	10	8260B		11/24/2014	CJR	1
Chloromethane	< 8.1	ug/l	8.1	26	10	8260B		11/24/2014	CJR	1
2-Chlorotoluene	< 2.1	ug/l	2.1	6.6	10	8260B		11/24/2014	CJR	1
4-Chlorotoluene	< 2.1	ug/l	2.1	6.8	10	8260B		11/24/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 8.8	ug/l	8.8	28	10	8260B		11/24/2014	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	7	10	8260B		11/24/2014	CJR	1
1,4-Dichlorobenzene	< 3	ug/l	3	9.6	10	8260B		11/24/2014	CJR	1
1,3-Dichlorobenzene	< 2.8	ug/l	2.8	8.9	10	8260B		11/24/2014	CJR	1
1,2-Dichlorobenzene	< 3.6	ug/l	3.6	12	10	8260B		11/24/2014	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	14	10	8260B		11/24/2014	CJR	1
1,2-Dichloroethane	< 4.1	ug/l	4.1	13	10	8260B		11/24/2014	CJR	1
1,1-Dichloroethane	22.7	ug/l	3	9.7	10	8260B		11/24/2014	CJR	1
1,1-Dichloroethene	< 4	ug/l	4	13	10	8260B		11/24/2014	CJR	1
cis-1,2-Dichloroethene	50	ug/l	3.8	12	10	8260B		11/24/2014	CJR	1
trans-1,2-Dichloroethene	< 3.5	ug/l	3.5	11	10	8260B		11/24/2014	CJR	1
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10	8260B		11/24/2014	CJR	1
2,2-Dichloropropane	< 3.6	ug/l	3.6	12	10	8260B		11/24/2014	CJR	4 8
1,3-Dichloropropane	< 3.3	ug/l	3.3	10	10	8260B		11/24/2014	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B		11/24/2014	CJR	1
EDB (1,2-Dibromoethane)	< 4.4	ug/l	4.4	14	10	8260B		11/24/2014	CJR	1
Ethylbenzene	28.5	ug/l	5.5	17	10	8260B		11/24/2014	CJR	1
Hexachlorobutadiene	< 15	ug/l	15	48	10	8260B		11/24/2014	CJR	1
Isopropylbenzene	< 3	ug/l	3	9.6	10	8260B		11/24/2014	CJR	1
p-Isopropyltoluene	< 3.1	ug/l	3.1	9.8	10	8260B		11/24/2014	CJR	1
Methylene chloride	< 5	ug/l	5	16	10	8260B		11/24/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.3	ug/l	2.3	7.4	10	8260B		11/24/2014	CJR	1
Naphthalene	27.1 "J"	ug/l	17	55	10	8260B		11/24/2014	CJR	1
n-Propylbenzene	2.9 "J"	ug/l	2.5	8.1	10	8260B		11/24/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 4.5	ug/l	4.5	14	10	8260B		11/24/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 3.3	ug/l	3.3	11	10	8260B		11/24/2014	CJR	1
Tetrachloroethene	< 3.3	ug/l	3.3	11	10	8260B		11/24/2014	CJR	1
Toluene	84	ug/l	6.9	22	10	8260B		11/24/2014	CJR	1
1,2,4-Trichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		11/24/2014	CJR	1
1,2,3-Trichlorobenzene	< 18	ug/l	18	58	10	8260B		11/24/2014	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10	10	8260B		11/24/2014	CJR	1
1,1,2-Trichloroethane	8.7 "J"	ug/l	3.4	11	10	8260B		11/24/2014	CJR	1
Trichloroethene (TCE)	3.3 "J"	ug/l	3.3	10	10	8260B		11/24/2014	CJR	1
Trichlorofluoromethane	< 7.1	ug/l	7.1	23	10	8260B		11/24/2014	CJR	1
1,2,4-Trimethylbenzene	< 22	ug/l	22	69	10	8260B		11/24/2014	CJR	1
1,3,5-Trimethylbenzene	< 14	ug/l	14	45	10	8260B		11/24/2014	CJR	1
Vinyl Chloride	2040	ug/l	1.8	5.7	10	8260B		11/24/2014	CJR	1
m&p-Xylene	27.8	ug/l	6.9	22	10	8260B		11/24/2014	CJR	1
o-Xylene	33	ug/l	6.3	20	10	8260B		11/24/2014	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %				8260B		11/24/2014	CJR	1
SUR - Dibromofluoromethane	94	REC %				8260B		11/24/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %				8260B		11/24/2014	CJR	1
SUR - Toluene-d8	98	REC %				8260B		11/24/2014	CJR	1

Lab Code 528102CC
 Sample ID WT-02A
 Sample Matrix Water
 Sample Date 11/18/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	56	ug/l	12	38.5	50	8260B		11/25/2014	CJR	1
Bromobenzene	< 16	ug/l	16	50	50	8260B		11/25/2014	CJR	1
Bromodichloromethane	< 18.5	ug/l	18.5	60	50	8260B		11/25/2014	CJR	1
Bromoform	< 17.5	ug/l	17.5	55	50	8260B		11/25/2014	CJR	1
tert-Butylbenzene	< 18	ug/l	18	60	50	8260B		11/25/2014	CJR	1
sec-Butylbenzene	< 16.5	ug/l	16.5	50	50	8260B		11/25/2014	CJR	1
n-Butylbenzene	< 17.5	ug/l	17.5	55	50	8260B		11/25/2014	CJR	1
Carbon Tetrachloride	< 16.5	ug/l	16.5	55	50	8260B		11/25/2014	CJR	1
Chlorobenzene	< 12	ug/l	12	38.5	50	8260B		11/25/2014	CJR	1
Chloroethane	< 31.5	ug/l	31.5	100	50	8260B		11/25/2014	CJR	1
Chloroform	< 14	ug/l	14	44	50	8260B		11/25/2014	CJR	1
Chloromethane	< 40.5	ug/l	40.5	130	50	8260B		11/25/2014	CJR	1
2-Chlorotoluene	< 10.5	ug/l	10.5	33	50	8260B		11/25/2014	CJR	1
4-Chlorotoluene	< 10.5	ug/l	10.5	34	50	8260B		11/25/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 44	ug/l	44	140	50	8260B		11/25/2014	CJR	1
Dibromochloromethane	< 11	ug/l	11	35	50	8260B		11/25/2014	CJR	1
1,4-Dichlorobenzene	< 15	ug/l	15	48	50	8260B		11/25/2014	CJR	1
1,3-Dichlorobenzene	< 14	ug/l	14	44.5	50	8260B		11/25/2014	CJR	1
1,2-Dichlorobenzene	< 18	ug/l	18	60	50	8260B		11/25/2014	CJR	1
Dichlorodifluoromethane	< 22	ug/l	22	70	50	8260B		11/25/2014	CJR	1
1,2-Dichloroethane	< 20.5	ug/l	20.5	65	50	8260B		11/25/2014	CJR	1
1,1-Dichloroethane	71	ug/l	15	48.5	50	8260B		11/25/2014	CJR	1
1,1-Dichloroethene	< 20	ug/l	20	65	50	8260B		11/25/2014	CJR	1
cis-1,2-Dichloroethene	4800	ug/l	19	60	50	8260B		11/25/2014	CJR	1
trans-1,2-Dichloroethene	< 17.5	ug/l	17.5	55	50	8260B		11/25/2014	CJR	1
1,2-Dichloropropane	< 16	ug/l	16	50	50	8260B		11/25/2014	CJR	1
2,2-Dichloropropane	< 18	ug/l	18	60	50	8260B		11/25/2014	CJR	4 8
1,3-Dichloropropane	< 16.5	ug/l	16.5	50	50	8260B		11/25/2014	CJR	1
Di-isopropyl ether	< 11.5	ug/l	11.5	36.5	50	8260B		11/25/2014	CJR	1
EDB (1,2-Dibromoethane)	< 22	ug/l	22	70	50	8260B		11/25/2014	CJR	1
Ethylbenzene	88	ug/l	27.5	85	50	8260B		11/25/2014	CJR	1
Hexachlorobutadiene	< 75	ug/l	75	240	50	8260B		11/25/2014	CJR	1
Isopropylbenzene	< 15	ug/l	15	48	50	8260B		11/25/2014	CJR	1
p-Isopropyltoluene	< 15.5	ug/l	15.5	49	50	8260B		11/25/2014	CJR	1
Methylene chloride	< 25	ug/l	25	80	50	8260B		11/25/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 11.5	ug/l	11.5	37	50	8260B		11/25/2014	CJR	1
Naphthalene	116 "J"	ug/l	85	275	50	8260B		11/25/2014	CJR	1
n-Propylbenzene	< 12.5	ug/l	12.5	40.5	50	8260B		11/25/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 22.5	ug/l	22.5	70	50	8260B		11/25/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 16.5	ug/l	16.5	55	50	8260B		11/25/2014	CJR	1
Tetrachloroethene	< 16.5	ug/l	16.5	55	50	8260B		11/25/2014	CJR	1
Toluene	380	ug/l	34.5	110	50	8260B		11/25/2014	CJR	1
1,2,4-Trichlorobenzene	< 49	ug/l	49	155	50	8260B		11/25/2014	CJR	1
1,2,3-Trichlorobenzene	< 90	ug/l	90	290	50	8260B		11/25/2014	CJR	1
1,1,1-Trichloroethane	42 "J"	ug/l	16.5	50	50	8260B		11/25/2014	CJR	1
1,1,2-Trichloroethane	< 17	ug/l	17	55	50	8260B		11/25/2014	CJR	1
Trichloroethene (TCE)	62	ug/l	16.5	50	50	8260B		11/25/2014	CJR	1
Trichlorofluoromethane	< 35.5	ug/l	35.5	115	50	8260B		11/25/2014	CJR	1
1,2,4-Trimethylbenzene	< 110	ug/l	110	345	50	8260B		11/25/2014	CJR	1
1,3,5-Trimethylbenzene	< 70	ug/l	70	225	50	8260B		11/25/2014	CJR	1
Vinyl Chloride	1410	ug/l	9	28.5	50	8260B		11/25/2014	CJR	1
m&p-Xylene	250	ug/l	34.5	110	50	8260B		11/25/2014	CJR	1
o-Xylene	134	ug/l	31.5	100	50	8260B		11/25/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %				8260B		11/25/2014	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %				8260B		11/25/2014	CJR	1
SUR - Dibromofluoromethane	90	REC %				8260B		11/25/2014	CJR	1
SUR - Toluene-d8	98	REC %				8260B		11/25/2014	CJR	1

Lab Code 528102DD
Sample ID WT-02A DUP
Sample Matrix Water
Sample Date 11/18/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	54	ug/l	12	38.5	50	8260B		11/25/2014	CJR	1
Bromobenzene	< 16	ug/l	16	50	50	8260B		11/25/2014	CJR	1
Bromodichloromethane	< 18.5	ug/l	18.5	60	50	8260B		11/25/2014	CJR	1
Bromoform	< 17.5	ug/l	17.5	55	50	8260B		11/25/2014	CJR	1
tert-Butylbenzene	< 18	ug/l	18	60	50	8260B		11/25/2014	CJR	1
sec-Butylbenzene	< 16.5	ug/l	16.5	50	50	8260B		11/25/2014	CJR	1
n-Butylbenzene	< 17.5	ug/l	17.5	55	50	8260B		11/25/2014	CJR	1
Carbon Tetrachloride	< 16.5	ug/l	16.5	55	50	8260B		11/25/2014	CJR	1
Chlorobenzene	< 12	ug/l	12	38.5	50	8260B		11/25/2014	CJR	1
Chloroethane	< 31.5	ug/l	31.5	100	50	8260B		11/25/2014	CJR	1
Chloroform	< 14	ug/l	14	44	50	8260B		11/25/2014	CJR	1
Chloromethane	< 40.5	ug/l	40.5	130	50	8260B		11/25/2014	CJR	1
2-Chlorotoluene	< 10.5	ug/l	10.5	33	50	8260B		11/25/2014	CJR	1
4-Chlorotoluene	< 10.5	ug/l	10.5	34	50	8260B		11/25/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 44	ug/l	44	140	50	8260B		11/25/2014	CJR	1
Dibromochloromethane	< 11	ug/l	11	35	50	8260B		11/25/2014	CJR	1
1,4-Dichlorobenzene	< 15	ug/l	15	48	50	8260B		11/25/2014	CJR	1
1,3-Dichlorobenzene	< 14	ug/l	14	44.5	50	8260B		11/25/2014	CJR	1
1,2-Dichlorobenzene	< 18	ug/l	18	60	50	8260B		11/25/2014	CJR	1
Dichlorodifluoromethane	< 22	ug/l	22	70	50	8260B		11/25/2014	CJR	1
1,2-Dichloroethane	< 20.5	ug/l	20.5	65	50	8260B		11/25/2014	CJR	1
1,1-Dichloroethane	40 "J"	ug/l	15	48.5	50	8260B		11/25/2014	CJR	1
1,1-Dichloroethene	< 20	ug/l	20	65	50	8260B		11/25/2014	CJR	1
cis-1,2-Dichloroethene	5000	ug/l	19	60	50	8260B		11/25/2014	CJR	1
trans-1,2-Dichloroethene	< 17.5	ug/l	17.5	55	50	8260B		11/25/2014	CJR	1
1,2-Dichloropropane	< 16	ug/l	16	50	50	8260B		11/25/2014	CJR	1
2,2-Dichloropropane	< 18	ug/l	18	60	50	8260B		11/25/2014	CJR	4 8
1,3-Dichloropropane	< 16.5	ug/l	16.5	50	50	8260B		11/25/2014	CJR	1
Di-isopropyl ether	< 11.5	ug/l	11.5	36.5	50	8260B		11/25/2014	CJR	1
EDB (1,2-Dibromoethane)	< 22	ug/l	22	70	50	8260B		11/25/2014	CJR	1
Ethylbenzene	80 "J"	ug/l	27.5	85	50	8260B		11/25/2014	CJR	1
Hexachlorobutadiene	< 75	ug/l	75	240	50	8260B		11/25/2014	CJR	1
Isopropylbenzene	< 15	ug/l	15	48	50	8260B		11/25/2014	CJR	1
p-Isopropyltoluene	< 15.5	ug/l	15.5	49	50	8260B		11/25/2014	CJR	1
Methylene chloride	< 25	ug/l	25	80	50	8260B		11/25/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 11.5	ug/l	11.5	37	50	8260B		11/25/2014	CJR	1
Naphthalene	92 "J"	ug/l	85	275	50	8260B		11/25/2014	CJR	1
n-Propylbenzene	< 12.5	ug/l	12.5	40.5	50	8260B		11/25/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 22.5	ug/l	22.5	70	50	8260B		11/25/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 16.5	ug/l	16.5	55	50	8260B		11/25/2014	CJR	1
Tetrachloroethene	< 16.5	ug/l	16.5	55	50	8260B		11/25/2014	CJR	1
Toluene	370	ug/l	34.5	110	50	8260B		11/25/2014	CJR	1
1,2,4-Trichlorobenzene	< 49	ug/l	49	155	50	8260B		11/25/2014	CJR	1
1,2,3-Trichlorobenzene	< 90	ug/l	90	290	50	8260B		11/25/2014	CJR	1
1,1,1-Trichloroethane	45 "J"	ug/l	16.5	50	50	8260B		11/25/2014	CJR	1
1,1,2-Trichloroethane	< 17	ug/l	17	55	50	8260B		11/25/2014	CJR	1
Trichloroethene (TCE)	66	ug/l	16.5	50	50	8260B		11/25/2014	CJR	1
Trichlorofluoromethane	< 35.5	ug/l	35.5	115	50	8260B		11/25/2014	CJR	1
1,2,4-Trimethylbenzene	< 110	ug/l	110	345	50	8260B		11/25/2014	CJR	1
1,3,5-Trimethylbenzene	< 70	ug/l	70	225	50	8260B		11/25/2014	CJR	1
Vinyl Chloride	1430	ug/l	9	28.5	50	8260B		11/25/2014	CJR	1
m&p-Xylene	239	ug/l	34.5	110	50	8260B		11/25/2014	CJR	1
o-Xylene	126	ug/l	31.5	100	50	8260B		11/25/2014	CJR	1
SUR - Toluene-d8	95	REC %				8260B		11/25/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %				8260B		11/25/2014	CJR	1
SUR - 4-Bromofluorobenzene	91	REC %				8260B		11/25/2014	CJR	1
SUR - Dibromofluoromethane	89	REC %				8260B		11/25/2014	CJR	1

Lab Code 528102EE
Sample ID WT-19
Sample Matrix Water
Sample Date 11/19/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/21/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/21/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/21/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/21/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/21/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/21/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/21/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/21/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/21/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/21/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/21/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/21/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/21/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/21/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/21/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/21/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/21/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/21/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/21/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/21/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/21/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/21/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/21/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/21/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/21/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/21/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/21/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/21/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/21/2014	CJR	1
Trichloroethene (TCE)	0.50 "J"	ug/l	0.33	1	1	8260B		11/21/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/21/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/21/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/21/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/21/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/21/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/21/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		11/21/2014	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		11/21/2014	CJR	1
SUR - Dibromofluoromethane	87	REC %			1	8260B		11/21/2014	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		11/21/2014	CJR	1

Project #

Lab Code 528102FF
 Sample ID TRIP BLANK
 Sample Matrix Water
 Sample Date 11/14/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/22/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/22/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/22/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/22/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/22/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/22/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/22/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/22/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/22/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/22/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/22/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/22/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/22/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/22/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/22/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/22/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/22/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/22/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/22/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/22/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/22/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/22/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/22/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/22/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/22/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		11/22/2014	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		11/22/2014	CJR	1
SUR - Dibromofluoromethane	83	REC %			1	8260B		11/22/2014	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		11/22/2014	CJR	1

Lab Code 528102GG
 Sample ID WT-25 DUP
 Sample Matrix Water
 Sample Date 11/14/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	1.23	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/22/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/22/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/22/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/22/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/22/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/22/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/22/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/22/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/22/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/22/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/22/2014	CJR	1
cis-1,2-Dichloroethene	103	ug/l	0.38	1.2	1	8260B		11/22/2014	CJR	1
trans-1,2-Dichloroethene	0.40 "J"	ug/l	0.35	1.1	1	8260B		11/22/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/22/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/22/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/22/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/22/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/22/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/22/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/22/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/22/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/22/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/22/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/22/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/22/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/22/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/22/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/22/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/22/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/22/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/22/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/22/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/22/2014	CJR	1
Vinyl Chloride	5.2	ug/l	0.18	0.57	1	8260B		11/22/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/22/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/22/2014	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		11/22/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		11/22/2014	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		11/22/2014	CJR	1
SUR - Dibromofluoromethane	87	REC %			1	8260B		11/22/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

<i>Code</i>	<i>Comment</i>
1	Laboratory QC within limits.
3	The matrix spike not within established limits.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.


Authorized Signature



A handwritten signature in blue ink, appearing to read "Michael J. Paul", is written over a horizontal line.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request
Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)
 Normal Turn Around

Lab I.D. # _____ Quote No.: _____
Account No.: _____
Project #: _____
Sampler (signature): 
Project (Name / Location): Former Newton Gravel Pit / Main tower, WI
Reports To: DAVE HENDERSON
Company: AECOM
Address: 1555 N. RiverCenter STE 114
City State Zip: Milwaukee, WI 53212
Phone: 414-944-6190
FAX: 414-944-6081

Invoice To: DAVE HENDERSON
Company: SAME
Address: _____
City State Zip: _____
Phone: _____
FAX: _____

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCPRA METALS	PID/ FID
A	PZ-24C	11/14/14	945	X	X	N	3	GW	HCl															
B	PZ-24A	11/14/14	1210	X	X	N	3	GW	HCl															
C	PZ-24B	11/14/14	1100	X	X	N	3	GW	HCl															
D	WT-24	11/14/14	1010	X	X	N	3	GW	HCl															
E	PZ-24A DUP	11/14/14	1210	X	X	N	3	GW	HCl															
F	PZ-25C	11/14/14	1310	X	X	N	3	GW	HCl															
G	PZ-25B	11/14/14	1400	X	X	N	3	GW	HCl															
H	PZ-25 A	11/14/14	1445	X	X	N	3	GW	HCl															
I	WT-25	11/14/14	1525	X	X	N	3	GW	HCl															
J	PZ-12	11/17/14	1040	X	X	N	3	GW	HCl															

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Analysis per Contract

Relinquished By: (sign)  Time 0800 Date 11/21/14
Received By: (sign) _____ Time _____ Date _____
Received in Laboratory By:  Time: 8:00 Date: 11/21/14

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Dry Ice °C On Ice
Temp. of Temp. Blank: _____ °C Yes No
Cooler seal intact upon receipt: Yes No

Lab I.D. # _____ Quote No.: _____

Account No.: _____

Project #: _____

Sampler (signature) James E. Day

Project (Name / Location): Former Newton Gravel Pit / Manitowoc, WI

Reports To: DAVE HENDERSON

Company ACCOM

Address 1555 N. River Center STE 214

City State Zip MILWAUKEE WI 53212

Phone 414-944-6190

FAX 414-944-6081

Invoice To: DAVE HENDERSON

Company SAME

Address _____

City State Zip _____

Phone _____

FAX _____

Sample Handling Request

Rush Analysis Date Required _____

(Rushes accepted only with prior authorization)

Normal Turn Around

Analysis Requested

Other Analysis

DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 5422)	VOC (EPA 8260)	8-PCRA METALS

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
<u>S028102k</u>	<u>WP-06</u>	<u>11/17/14</u>	<u>955</u>		<u>X</u>	<u>N</u>	<u>3</u>	<u>GW</u>	<u>HCL</u>
<u>L</u>	<u>WT-12</u>	<u>11/17/14</u>	<u>1105</u>		<u>X</u>	<u>N</u>	<u>3</u>	<u>GW</u>	<u>HCL</u>
<u>M</u>	<u>WT-12 DWP</u>	<u>11/17/14</u>	<u>1105</u>		<u>X</u>	<u>N</u>	<u>3</u>	<u>GW</u>	<u>HCL</u>
<u>W</u>	<u>WT-11</u>	<u>11/17/14</u>	<u>1130</u>		<u>X</u>	<u>N</u>	<u>3</u>	<u>GW</u>	<u>HCL</u>
<u>O</u>	<u>PZ-15A</u>	<u>11/17/14</u>	<u>1205</u>		<u>X</u>	<u>N</u>	<u>3</u>	<u>GW</u>	<u>HCL</u>
<u>P</u>	<u>PZ-15B</u>	<u>11/17/14</u>	<u>1250</u>		<u>X</u>	<u>N</u>	<u>3</u>	<u>GW</u>	<u>HCL</u>
<u>Q</u>	<u>WT-15</u>	<u>11/17/14</u>	<u>1315</u>		<u>X</u>	<u>N</u>	<u>3</u>	<u>GW</u>	<u>HCL</u>
<u>R</u>	<u>PZ-05B</u>	<u>11/17/14</u>	<u>1350</u>		<u>X</u>	<u>N</u>	<u>3</u>	<u>GW</u>	<u>HCL</u>
<u>S</u>	<u>PZ-05A</u>	<u>11/17/14</u>	<u>1415</u>		<u>X</u>	<u>N</u>	<u>3</u>	<u>GW</u>	<u>HCL</u>
<u>T</u>	<u>WT-05</u>	<u>11/17/14</u>	<u>1445</u>		<u>X</u>	<u>N</u>	<u>3</u>	<u>GW</u>	<u>HCL</u>

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Analysis Per Contract

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Refrigerated

Temp. of Temp. Blank _____ °C On Ice: X

Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign) [Signature]

Time 0800

Date 11/20/14

Received By: (sign) _____

Date _____

Received in Laboratory By: [Signature]

Time: 8:00

Date: 11/21/14

Sample Handling Request
Rush Analysis Date Required
(Rushes accepted only with prior authorization)
 Normal Turn Around

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Lab I.D. #
Account No.: Quote No.:
Project #:
Sampler (signature)
Project (Name / Location):
Reports To:
Company:
Address:
City State Zip:
Phone:
FAX:

Table with columns: Lab I.D., Sample I.D., Collection Date Time, Comp, Grab, Filtered Y/N, No. of Containers, Sample Type (Matrix)*, Preservation

Table with columns: Analysis Requested, Other Analysis

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Analysis per Contract

Relinquished By: (signature), Date, Time, Received By: (signature), Date, Time
Sample Integrity - To be completed by receiving lab.
Method of Shipment:
Temp. of Temp. Blank °C On Ice:
Cooler seal intact upon receipt: Yes No

Sample Handling Request
Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)
 Normal Turn Around

Lab I.D. # _____
Account No.: _____ Quote No.: _____
Project #: _____
Sampler: (signature) _____

Project (Name / Location): Former Newton Gravel Pit / Manitowoc, WI

Reports To: DAVE HENDERSON
Company: AECOM
Address: 1555 N RiverCenter STE 214
City State Zip: Milwaukee WI 53212
Phone: 414-944-6190
FAX: 414-944-6081

Invoice To: DAVE HENDERSON
Company: SAME
Address: _____
City State Zip: _____
Phone: _____
FAX: _____

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
<u>S28102E</u>	<u>WT-19</u>	<u>11/14/80</u>		<u>X</u>	<u>N</u>	<u>N</u>	<u>3</u>	<u>GW</u>	<u>HCl</u>
<u>FF</u>	<u>Trip Blank</u>	<u>11/14/80</u>		<u>X</u>	<u>N</u>	<u>N</u>	<u>2</u>	<u>GW</u>	<u>HCl</u>
<u>65</u>	<u>WT-25 DUP</u>	<u>11/14/80</u>		<u>X</u>	<u>N</u>	<u>N</u>	<u>3</u>	<u>GW</u>	<u>HCl</u>

Analysis Requested		Other Analysis	
DRO (Mod DRO Sep 95)			
GRO (Mod GRO Sep 95)			
LEAD			
NITRATE/NITRITE			
OIL & GREASE			
PAH (EPA 8270)			
PCB			
PVOC (EPA 8021)			
PVOC + NAPHTHALENE			
SULFATE			
TOTAL SUSPENDED SOLIDS			
VOC DW (EPA 542.2)			
VOC (EPA 8260)	<u>XX</u>		
8-PCRA METALS	<u>XX</u>		

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Analysis per Contract

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Refrigerated °C On Ice: X
Temp. of Temp. Blank: _____ °C Yes X No _____
Cooler seal intact upon receipt: X Yes _____ No _____

Relinquished By: (sign) [Signature] Time 0800 Date 11/24/14
Received By: (sign) _____ Time: 8:00 Date: 11/21/14

Received in Laboratory By: [Signature]