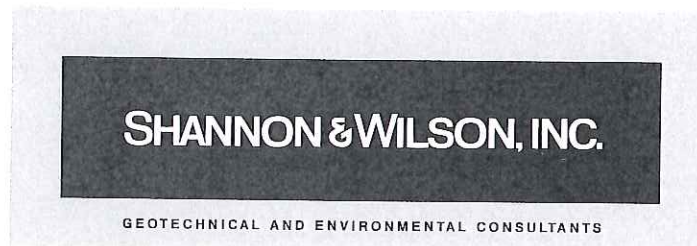


June 7, 2016



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Prepared for:

GARDNER DENVER, INC.
1800 GARDNER EXPRESSWAY
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Submitted to:

Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711

By:

Shannon & Wilson, Inc.
2110 Luann Lane, Suite 101
Madison, Wisconsin 53713

42-1-37320-003

June 7, 2016

Mr. Jeff Ackerman
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711

RE: WDNR BRRTS No. 03-28-176509
2015 Groundwater Monitoring Report
DB Oak Facility, 700-710 Oak Street, Ft. Atkinson, Wisconsin

Dear Mr. Ackerman:

On behalf of Gardner Denver, enclosed is our Groundwater Monitoring Report for the DB Oak property in Fort Atkinson, Wisconsin. This report presents an evaluation of the results for groundwater samples collected between June 2015 and March 2016. Recommendations for future activities include quarterly groundwater sampling between June 2016 and March 2017, ongoing operation of the SVE system, additional off-site investigation, contaminated sediment removal, and preparation of the annual report in April/ May 2017.

If you have any questions please call me at (608) 442-5223 extension 8157.

Sincerely,

SHANNON & WILSON, INC.



Mark S. McColloch, P.G.
Senior Associate

cc: Mr. Stephen McClure, Gardner Denver, Inc.

MSM:DPT/msm

TABLE OF CONTENTS

	Page
EXECUTIVE SUMMARY	1
1.0 INTRODUCTION.....	4
1.1 Site Description	4
1.2 Site History.....	4
1.3 Previously Completed Activities.....	6
1.4 Purpose and Scope	8
2.0 COMPLETED ACTIVITIES	9
2.1 Groundwater Monitoring.....	9
2.2 Groundwater Sample Collection Procedures	9
2.3 June 2015 Off-site Investigation	10
2.4 March 2016 Off-site Well Installation	11
2.5 Drainage Swale Surface Water and Sediment Sample Collection.....	12
3.0 SOIL VAPOR EXTRACTION	14
3.1 Soil Vapor Extraction System Installation	14
3.2 Soil Vapor Extraction System Operation	14
4.0 GROUNDWATER MONITORING RESULTS	16
4.1 Groundwater Flow Conditions	16
4.2 Groundwater Quality Standard Exceedances	17
4.2.1 June 2015 Groundwater Results	17
4.2.2 September 2015 Groundwater Results.....	18
4.2.3 December 2014 Groundwater Results	18
4.2.4 March 2015 Groundwater Results	19
4.3 Contaminant Concentration Trends	19
4.3.1 Treatment Zone Concentration Trends	20
4.3.2 Deep Piezometer Contaminant Concentration Trends.....	20
4.3.3 Downgradient Contaminant Concentration Trends	21
4.4 Geochemical Indicator Parameters.....	21
4.5 Surface Water and Sediment Sample Results	22
4.6 Off-site Groundwater Contamination.....	23
5.0 SOIL VAPOR EXTRACTION SYSTEM RESULTS.....	26
6.0 SUMMARY AND CONCLUSIONS.....	29
7.0 RECOMMENDATIONS	33
8.0 REFERENCES.....	35

TABLES

Table 1	Monitoring Well Construction and Groundwater Elevations
Table 2A	Groundwater Sample Results for Nitrate as N
Table 2B	Groundwater Sample Results for Sulfate as SO ₄
Table 3	June 2015 VOC Groundwater Sample Results
Table 4	June 2015 VOC Groundwater Sample Results - Geoprobe Borings
Table 5	September 2015 VOC Groundwater Sample Results
Table 6	December 2015 VOC Groundwater Sample Results
Table 7	March 2016 VOC Groundwater Sample Results
Table 8	Surface Water Sample Results
Table 9	Sediment Sample Results
Table 10	Historic VOC Groundwater Sample Results

FIGURES

Figure 1	Site Location Map
Figure 2	Site Map
Figure 3	SVE Piping Map
Figure 4	Groundwater Elevations and cis-1,2_DCE – Shallow Water Table Wells June 2015
Figure 4A	Groundwater Elevations and cis-1,2_DCE – “A” Horizon Piezometers June 2015
Figure 5	Groundwater Elevations and cis-1,2_DCE – Shallow Water Table Wells March 2016
Figure 5A	Groundwater Elevations and cis-1,2_DCE – “A” Horizon Piezometers March 2016
Figure 5B	Groundwater Elevations and cis-1,2_DCE – “B” Horizon Piezometers March 2016

APPENDICES

Appendix A	Field Measurement Summary Tables
Appendix B	Purge Water and Soil Cutting Disposal Documentation
Appendix C	Groundwater Summary Report and Laboratory Reports – June 2015 Groundwater Samples
Appendix D	Laboratory Report – September 2015 Groundwater Samples and Sediment Sample
Appendix E	Laboratory Report – December 2015 Groundwater and October 2015 Sediment Samples
Appendix F	Laboratory Report – March 2016 Groundwater and Sediment Samples
Appendix G	Off-site Well Soil Borings Logs, Well Construction, and Well Development Forms
Appendix H	Time Versus Concentration Graphs for Groundwater
Appendix I	Laboratory Report – Monthly SVE Effluent Samples May 2015 through May 2016

EXECUTIVE SUMMARY

The DB Oak property address is 700 to 710 Oak Street in Fort Atkinson, Wisconsin. As shown on Figure 1, the site is near the north-central Fort Atkinson municipal boundary. It is currently owned by DB Oak. The property is essentially flat, but slopes slightly to the south. A rail spur bounds the property to the east, beyond which is the Lorman Iron and Metal scrap yard. Commercial properties (Maquert and 2L Lobe LLC) bound the property to the south. Oak Street bounds the property to the west, beyond which are residential properties. An undeveloped wooded parcel bounds the property to the north, beyond which is East Cramer Street.

Several phases of site investigation were performed between 2004 and 2007. Results show that chlorinated volatile organic compounds (CVOCs) have affected groundwater quality. Tetrachloroethene (PCE) is the primary constituent of concern exceeding groundwater quality standards, but PCE degradation products (TCE, cis- and trans 1,2-dichloroethene (cis-DCE and trans-DCE), 1,1-dichloroethene (1,1-DCE), and vinyl chloride) also exceed their standards. The highest PCE concentrations were detected at wells MW-3, MW-3A, MW-3B, and MW-4. On-site source areas include the loading dock near the site center at the MW-3 well nest, and the former PCE tank at the north near the MW-4 well nest. Elevated PCE concentrations at piezometers MW-3A and MW-3B indicate contaminants migrated vertically at the MW-3 source area. However, low concentrations at piezometer MW-4A indicate no significant vertical contaminant migration at the MW-4 source area. Contaminants at TW-01 and TW-02 are likely related to the MW-3 source area, and TW-03 contaminants are related to the MW-4 source area.

A soil vapor extraction (SVE) system was installed in 2006 to remove CVOCs from shallow soils. Horizontal lateral pipes were installed at the east side of the DB Oak building between October and December of that year. The SVE system operated from mid-July 2007 to the end of the year, but was occasionally shut down during high water table conditions. In March 2014 a new blower was connected to the lateral SVE pipes; it was then operated through 2015. It was shut down in mid-December 2015 due to high water table conditions, but resumed operating in March 2016. Monthly effluent air samples collected since that time indicate CVOCs remaining in unsaturated zone are being removed by SVE.

Potential remedial alternatives for groundwater were evaluated in the April 2009 Groundwater Remedial Actions Options Evaluation Report. In-situ biological reductive de-chlorination was selected for groundwater remediation to accelerate this process because groundwater monitoring results confirmed reductive CVOC de-chlorination is ongoing. A work plan for in-situ remediation was submitted and subsequently approved by WDNR in May 2009. Edible Oil Substrate (EOS) was injected into the aquifer in June 2009. EOS injection was followed by

bacterial inoculation in July 2009 to enhance the indigenous microbial populations and stimulate de-chlorination.

Results for the first two years of post-treatment groundwater monitoring showed that reductive de-chlorination occurred at the treatment zone. Significant declines in contaminant concentrations were observed at wells TW-01 and MW-3, but low to moderate declines were observed at wells TW-02, MW-3A, MW-3B, and MW-4. Supplemental EOS injection was completed in May 2011 for these areas.

Post treatment results indicate that in-situ treatment increased the rate of reductive de-chlorination. Decreasing PCE and TCE concentrations were observed concurrent with increasing cis-1,2-DCE and vinyl chloride concentrations following initial treatment. The most significant changes were observed for shallow groundwater at the MW-3 source area at wells TW-01 and MW-3. Recent results indicate that only trace levels of contaminants remain in shallow groundwater at the MW-3 source area. Following supplemental treatment, PCE and TCE declines were observed at TW-02, TW-03, MW-3A, MW-3B, and MW-4. As PCE and TCE concentrations declined, cis-1,2-DCE and vinyl chloride concentrations increased. At the MW-3 source area, constituents remain in shallow groundwater at TW-02 and in deep groundwater at MW-3A and MW-3B, but concentrations are below pre-treatment conditions. Post treatment results for wells TW-03 and MW-4 indicate residual contamination also remain in shallow groundwater at the MW-4 source area, but no vertical migration of contaminants is evident. Contaminants in shallow groundwater at the MW-4 source are also below pre-treatment concentrations.

Though significant declines in PCE and TCE concentrations have been observed at both source areas, cis-1,2-DCE and vinyl chloride remain. Supplemental treatment may be needed to stimulate the microbial population if existing conditions are no longer sufficient for reductive de-chlorination of cis-1,2-DCE and vinyl chloride.

Surface water samples indicate that shallow groundwater is seeping into to a storm drain at the side east of the DB Oak facility building. Concentrations declined between the on-site storm sewer near TW-02 and the outfall near the MW-2 well nest, but remain in surface water prior to discharge at the Lorman Street outfall. To further evaluate contamination at the outfall, a shallow sediment sample was collected in October 2015. Based on results presented in the November 12, 2015 Work Plan, additional sediment sample collection was recommended to identify the lateral and vertical extent of sediment contamination at the drainage swale. These sample results indicate elevated CVOCs are present within the upper two feet of soft silty clay material encountered at the base of the drainage swale. However, results also show concentrations decline with depth and distance from the outfall.

Sediment samples results indicate a third on-site source at the outfall area. Contaminated sediment likely resulted from historic releases at the east side of the DB Oak building conveyed through the storm drain to the outfall and drainage swale. Surface water at the drainage swale lies several feet above the water table at MW-2, and a stiff silty clay encountered between two and four feet likely limits vertical contaminant migration from this sediment source. However, contaminated sediment at the outfall likely contributes to groundwater contamination at MW-2 and MW-2A. Consequently, sediment removal will likely improve both surface water and groundwater quality at the southeast corner of the DB Oak property.

An investigation was completed in June 2015 to further identify the lateral extent of contamination encountered at wells MW-9 and MW-9A installed in November 2014. The investigation included collection of groundwater samples from shallow and deep horizons at borings GP-100 through GP-114. Results were presented in the November 12, 2015 Work Plan along with recommendations for additional off-site wells. Wells MW-10, MW-10A, MW-11, MW-12, and MW-12A were subsequently installed in March 2016. Water levels measured at off-site wells indicate that shallow groundwater flow at the Hoard property is to the east-northeast. Based on these shallow flow conditions, an up gradient source for cis-1,2-DCE at MW-9 is likely present between the southeast corner of the Hoard building and the north end of Edward Street. Based on regional groundwater flow conditions measured at on- and off-site piezometers, MW-9A is down gradient from source areas at the DB Oak property. However, the off-site source for MW-9 may also be a source for cis-1,2-DCE at MW-9A.

Recent investigation results indicate off-site groundwater contamination along Ralph and Jefferson Streets is limited to boring GP-111 at the southwest corner of Ralph Park. Wells MW-12 and MW-12A were installed near boring GP-111 and confirm groundwater contamination at this area. These results are consistent with results of a previously completed investigation completed at the UJB property. That study identified contaminants at former UJB wells MW-1, MW-2, MW-1A, MW-6, and MW-6A at the northeast corner of the UJB property. The source area for contamination at the northeast corner of the UJB property is likely in the up gradient direction of groundwater flow at the adjacent Lorman property. Boring GP-111 and the MW-12 well nest are directly down gradient from this area.

Low concentrations of cis-1,2-DCE at shallow former UJB wells and elevated cis-1,2-DCE at deeper UJB piezometers MW-1A and MW-4A also indicate that contaminants migrated vertically from upgradient source areas. Low concentrations of contaminants at former UJB piezometer MW-6A installed between MW-1A and MW-4A indicate two separate source areas. Contaminants at UJB well MW-1A likely migrated from a source area at the southeast corner of the Lorman Property, and contaminants at UJB well MW-4A indicate migration from the DB Oak MW-3 source area, or from another source at the south end of the Lorman Property.

1.0 INTRODUCTION

1.1 Site Description

The DB Oak property address is 700 -710 Oak Street in Fort Atkinson, Wisconsin. As shown on Figure 1, the site is at the north side of Fort Atkinson within the west half of the southwest quarter of Section 34, Township 6 north, Range 14 east. The property is relatively flat at an approximate elevation of 790 feet above mean sea level (MSL). Regional topography in the vicinity of the site slopes to the east and south towards the Rock River.

The DB Oak property is a triangular shaped parcel bounded by East Cramer Street to the north, Oak Street to the west-southwest, and the Union Pacific (formerly Chicago and Northwest) rail line to the east-southeast. The property consists of an 180,000 square foot building with surrounding driveways and parking lots. A large parking lot and driveway near the northwest corner of the building is accessible from North Main Street to the west and Oak Street to the south. A gravel driveway and loading dock area is at the east side of the facility building. The loading dock is accessible from an asphalt driveway and small parking lot at the south side of the property, and from a gravel driveway at the north side of the building. An undeveloped wooded parcel is between the driveway at the north side of the building and East Cramer Street. Lawn areas are south and west of the building. A site map for the facility is shown on Figure 2.

The building is currently leased for warehouse space by Storage Space Solutions. Office and garage areas at the south end of the building previously occupied by 5 Alarm Fire & Safety Inc. (5 Alarm) are currently leased by Riedl & Son Exterior Specialist. The Fort Atkinson Kennel Club also leases space at the west side of the building. Residential homes are west of Oak Street and the DB Oak property. The Lorman Iron and Metals Company (Lorman) is east of the property and the Union Pacific rail line. The property is accessible from the Lorman site via Lorman Drive. Properties south of the DB Oak property include a parcel at 600 Oak Street owned by Mr. Dale Maquert for construction equipment storage, and a parcel owned by 2L Lobe LLC for roll off box storage associated with the adjoining Lorman facility.

1.2 Site History

A detailed site history of the DB Oak site was included in the December 2007 *Supplemental Hydrogeologic Investigation Report* and the April 2009 *Groundwater Remedial Actions Options Evaluation Report*. The following is a brief summary of the site history as described in these reports.

- Soil and groundwater contamination were initially identified at the DB Oak property near a former tetrachloroethene (aka perchloroethene (PCE)) storage tank during initial site assessments completed in 1994.
- Lorman Iron & Metals Company performed a site investigation following removal of three former underground waste oil tanks in 1994. These tanks were at the south end of the Lorman property. The site investigation included soil sampling, monitoring well installation, and groundwater sampling in the vicinity of the tanks. Results confirmed petroleum compounds were released from a former waste oil tank. The investigation also showed that groundwater flow was toward the south-southwest. Contaminated soils at the area of the tanks were subsequently excavated, followed by further groundwater monitoring. Though low CVOC and petroleum constituent concentrations were detected at site monitoring wells, the site was formally closed in 2001 following several years of declining results. As shown on Figure 2, the Lorman property is east of the railway separating it from the DB Oak property; former Lorman wells MW-1, MW-2, and MW-3 were previously southeast of the existing DB Oak facility building.¹
- Several phases of investigation were also performed at the DB Oak property between 2004 and 2007. Investigation results indicated that CVOCs were present in groundwater above groundwater quality standards. PCE was identified as the primary constituent of concern, but by-products TCE, cis- and trans-1,2-DCE, 1,1-DCE, and vinyl chloride also exceeded groundwater quality standards.
- Groundwater was encountered at shallow depths between three and five feet below ground surface (bgs) at the east side of the facility building. The highest CVOC concentrations were detected at shallow wells MW-3 and MW-4. MW-3 is at the east side of the building adjacent to facility loading docks, and MW-4 is adjacent to the former PCE tank near the northeast corner of the building.
- Samples from piezometers MW-4A and MW-4B indicated no significant vertical contaminant migration at the former tank area. However, samples from loading dock piezometers MW-3A, MW-3B, and MW-3C indicated that PCE migrated vertically at this area. The vertical extent of CVOC groundwater contamination is greatest at the MW-3 well nest; elevated CVOCs were detected at 100 feet below the water table in groundwater samples from MW-3C.

¹ Wells MW-1, MW-2, and MW-3 at the Lorman property were abandoned as a condition of closure.

- Elevated CVOCs were also detected at downgradient wells MW-2, MW-2A, and MW-7A. However, low level CVOCs were detected at downgradient wells MW-7/ MW-7B and side gradient wells MW-8A/ MW-8B. No CVOCs were detected at upgradient well MW-5, downgradient wells MW-6/ MW-6A and side gradient wells MW-1 and MW-8. These results indicate the lateral extent of groundwater contamination to the north, west, and southwest has been identified.
- Lateral piping for a soil vapor extraction (SVE) system for soil contamination was installed between October 2006 and March 2007 along the east side of the facility building. The SVE system operated from mid-July 2007 to the end of the year, but was shut down during high water table conditions. Effluent concentrations measured after three months of operation were approximately half those detected after initial startup.
- Additional groundwater samples were collected in April 2008. Samples collected from downgradient well MW-2 showed that PCE degraded to TCE and cis-DCE with distance from the PCE source areas. Elevated cis-DCE concentrations at depth downgradient from the source area confirmed reductive PCE de-chlorination with both lateral and vertical migration. Because degradation products (TCE, cis-1,2-DCE and vinyl chloride) are more soluble and mobile than PCE, these results confirmed a dissolved phase CVOC plume had formed downgradient.
- Based on the evaluation of groundwater remedies in the April 2009 *Groundwater Remedial Actions Options Evaluation Report*, in-situ biological reductive de-chlorination was selected. In-situ treatment was performed in June and July 2009 in accordance with the WDNR approved Work Plan entitled *In-situ Treatment using Biological reductive De-chlorination*. Treatment consisted of the injection of Edible Oil Substrate (EOS) into the aquifer followed by bacterial inoculation.

1.3 Previously Completed Activities

The 2009 in-situ treatment remedy was described in detail in the October 27, 2009 report entitled, *Status Report for In-situ Treatment using Biological reductive De-chlorination*. All activities were performed in accordance with the approved Work Plan. A summary of these activities is as follows:

- Pre-treatment activities were performed in May 2009. One additional deep piezometer (MW-4B), an injection well (IW-01), and three shallow temporary wells (TW-01, TW-02, and TW-03) were installed within the treatment zone. A baseline round of groundwater samples was also collected.

- EOS injection was performed between June 1st and 11th, 2009. The existing soil vapor extraction (SVE) lateral piping was utilized along with 151 injection points advanced using Geoprobe direct push technology (DPT). EOS was injected at concentrations ranging from 10 to 40 percent into injection borings and SVE laterals (lateral sections from north to south were referred to as L1, L2, L3, L4, and L5; see Figure 3 in the 2009 report). A total of approximately 86,431 gallons of EOS treatment chemistry was injected at 151 injection borings and into five SVE laterals over the nine-day period.
- Dissolved oxygen (DO) and oxidation reduction potential (ORP) field measurements on July 9th indicated site conditions were suitable for bacterial inoculation, performed on July 28th. BAC-9, an enriched bioaugmentation culture capable of completely degrading cis-DCE and vinyl chloride was selected. The BAC-9 culture was stored in an air tight nitrogen pressurized keg with injection volumes measured in a separate air tight cylinder. Seventeen liters were injected at ten wells (IW-01, TW-01, TW-02, MW-2, MW-2A, MW-3, MW-3A, MW-3B, MW-3C, and MW-4). Approximately 15 psi of nitrogen were applied to the cylinder for injection. One to three liters of BAC-9 were injected into each well at a rate of approximately one liter per minute. The injection tubing was placed one foot above the bottom of each injection well to allow infiltration into the aquifer through the screened interval.
- To evaluate the effectiveness of in-situ treatment, post treatment groundwater samples were collected between September 2009 and March 2011. The first year of post-treatment results were presented in the May 14, 2010 Groundwater Monitoring Report. The second year of results from June 2010 to March 2011 were presented in the May 31, 2011 Groundwater Monitoring Report, along with recommendations for a third year of quarterly groundwater monitoring.
- The May 2011 Groundwater Monitoring Report also included a review of the first two years of post-treatment groundwater monitoring data. Results showed that reductive dechlorination occurred at all sample points. Significant declines in contaminant concentrations were observed at wells MW-03, TW-01, and TW-03. Low to moderate declines were observed at wells TW-02, MW-3A, MW-3B, and MW-4.
- Based on this evaluation, supplemental injection was performed between May 10 and 12, 2011 using direct push borings. This treatment was described in detail in the May 2011 Groundwater Monitoring Report as follows:

- Approximately 1,800 gallons were injected at 15 borings advanced near the MW-4 well nest between 7 and 15 feet below ground surface;
 - Approximately 480 gallons were injected at 4 borings advanced north of the MW-3 well nest between 7 and 15 feet below ground surface;
 - Approximately 2,180 gallons were injected at 17 borings advanced near TW-02 between 10 and 20 feet below ground surface; and
 - Approximately 7,318 gallons were injected at 10 deep borings advanced near the MW-3 well nest between 15 and 85 feet below ground surface.
- Quarterly post-treatment groundwater samples were collected between June 2011 and March 2016. Results were presented in the annual reports in June 2012, May, 2013, June 2014, and May, 2015. Each report included recommendations for additional groundwater monitoring. Results for samples collected between June 2015 and March 2016 are presented in this report.

1.4 Purpose and Scope

The purpose of this report is to present post treatment monitoring results for the period between June 2015 and March 2016. Results from off-site down gradient wells MW-10, MW-10A, MW-11, MW-12, and MW-12A installed in March 2016 are included. The soil vapor extraction system operated between March 2014 and December 2015. It was shut down on December 21, 2015 and restarted on March 15, 2016. Soil vapor extraction system effluent samples results between June 2015 and March 2016 are also included in this report.

2.0 COMPLETED ACTIVITIES

2.1 Groundwater Monitoring

The existing groundwater monitoring network for the DB Oak site includes the following:

- 1) Wells within the treatment area;
- 2) Downgradient wells with groundwater quality impacts, and
- 3) Perimeter wells with little to no groundwater quality impacts.

Prior to in-situ treatment, a baseline round of samples was collected in May 2009 from the well network. Following treatment, samples were collected quarterly from treatment area and downgradient wells previously showing groundwater quality standard exceedances. The monitoring program for the past year is summarized below. Monitoring wells are shown on Figure 2.

Sampling Event	Treatment Area Wells	Downgradient Wells	Off-Site Wells
June 2015	TW-02 -03 MW-3, -3A, -3B MW-4	MW-2, -2A MW-7A	MW-9, -9A
September 2015	IW-01 TW-01, -02, -03 MW-3, -3A, -3B, -3C MW-4, -4A, -4B	MW-2, -2A, -2B MW-7, -7A, -7B	MW-9, -9A
December 2015	TW-02 -03 MW-3, -3A, -3B MW-4	MW-2, -2A MW-7A	MW-9, -9A
March 2016	IW-01 TW-01, -02, -03 MW-3, -3A, -3B, -3C MW-4, -4A, -4B	MW-2, -2A, -2B MW-7, -7A, -7B	MW-9, -9A MW-10, -10A MW-11 MW-12, MW-12A

Water levels were measured at all well locations during each sampling event, including perimeter wells MW-1, MW-5, MW-6, MW-6A, MW-8, MW-8A, and MW-8B (no samples were collected at MW-6, MW-6A, MW-8, MW-8A and MW-8B this past year).

2.2 Groundwater Sample Collection Procedures

Static water levels were measured and four well volumes removed from each well prior to sample collection. The color, odor, and turbidity of the purge water were recorded on field sampling forms along with a description of the general conditions, and any problems encountered at each well. Field measurements for pH, specific conductance, temperature, dissolved oxygen (DO), and oxidation reduction potential (ORP) were also recorded at the time of collection during September 2015 and March 2016. Depth to water measurements and

groundwater elevations for the past year are summarized in Table 1. Historic field measurements for each well are summarized in Appendix A.

Small diameter downhole submersible pumps were used to purge piezometers, and bailers dedicated to each well were used to purge water table observation wells. Purge water from wells with groundwater quality standard exceedances was containerized and subsequently transported off-site for disposal; disposal documentation for previous years was included with previous annual Groundwater Monitoring Reports. Purge water from June and September 2015 was transported off-site in September. Purge water from December 2015 and March 2016 was transported off-site in March. Disposal documentation for purge water from samples collected this past year is included in Appendix B.

All samples were collected in laboratory containers, held on ice, and shipped along with the completed chain-of-custody forms to Northern Lake Service, Inc. and analyzed for VOCs by USEPA Method 8260. Duplicate samples and a trip blank that accompanied the samples at all times were analyzed for VOCs for quality control. Samples collected from treatment area wells were analyzed for nitrate and sulfate; nitrate and sulfate results are summarized in Tables 2A and 2B, respectively. Results for June 2015 are summarized in Table 3 and 4, and results for September 2015, December 2015, and March 2016 are summarized in Tables 5, 6, and 7, respectively. Laboratory reports for June 2015, September 2015, December 2015, and March 2016 are summarized in Appendices C, D, E, and F, respectively.

2.3 June 2015 Off-site Investigation

An off-site investigation was completed between June 16th and 18th, 2015 to further evaluate the lateral and vertical extent of off-site groundwater contamination. The off-site investigation was performed in accordance with recommendations presented in the May 2015 annual report, and included groundwater samples from off-site borings concurrent with the samples from existing wells. A permit was obtained from the City of Fort Atkinson and all off-site borings were advanced within the City right-of-way. Samples were collected from borings advanced as follows:

- GP-100 and GP-101 near the southeast corner of the DB Oak building between TW-01 and the MW-2 well nest;
- GP-102 and GP-103 at the west end of Lorman Street;
- GP-104 through GP-109 along Ralph Street, and
- GP-110 through GP-115 at Ralph Park east of Jefferson Street.

Attempts were made to collect shallow and deep samples from each boring. Shallow samples were collected between 15 and 20 feet below grade, and deep samples were collected 30 and 35 feet below grade². Shallow samples were collected at all locations except GP-102 and GP-112; temporary wells installed at both borings were damaged preventing sample collection. Deep samples were collected at GP-106, GP-107, and GP-108 using an extractable well screen on the lead drill rod. No deep groundwater samples were collected at GP-104, GP-105, GP-109, and GP-110. Insufficient groundwater volumes prevented deep samples at GP-104 and GP-105. The lead drill rod was bent preventing the screen from extracting at GP-109, and the drill rod encountered refusal at 25 feet at GP-110. After damaging the extractable well screen rod beyond repair, temporary wells were installed for shallow and deep samples at the remaining borings (GP-103, GP-104, GP-111, GP-112, GP-113, and GP-114).

Groundwater samples were collected in laboratory containers, held on ice, shipped along with the completed chain-of-custody forms to Northern Lake Service, Inc. and analyzed for VOCs by USEPA Method 8260. Duplicate samples and a trip blank that accompanied the samples were analyzed for VOCs for quality control. Results for June are summarized in Tables 3 and 4. Wells and Geoprobe borings are shown on Figures 4 and 4A. June results are described in Section 4.2 and 4.6 below.

2.4 March 2016 Off-site Well Installation

Results for June and September 2015 groundwater samples were submitted to WDNR in a November 12, 2015 Work Plan along with recommendations for off-site wells to further evaluate off-site groundwater contamination and flow conditions. WDNR approved the Work Plan in a letter dated January 12, 2016. Shannon & Wilson obtained access agreements for the installation of off-site wells MW-10, MW-10A, and MW11 at the Hoard property and wells MW-12 and MW-12A at Ralph Park. These wells were installed between March 29th and 30th, 2016. On- and off-site wells are shown on Figure 2.

Well borings were advanced using 4¼-inch ID hollow stem augers. Soil samples were collected at five-foot intervals using a split-barrel sampler advanced ahead of the augers. Subsurface soil units encountered at each boring were visually classified in accordance with the Unified Soil Classification system and recorded on soil boring logs. Soil boring logs are included in Appendix G. Soil cuttings were placed in 55-gallon drums and temporally stored on site until arrangements for off-site disposal were made. Disposal documentation is included in Appendix B.

² The 2014 Annual Report included a recommendation to collect deep groundwater samples at depths between 35 and 40 feet below grade; hard drilling prevented direct push borehole advancement below 35 feet.

All wells were constructed with 2-inch diameter schedule 40 PVC casings and screens. Screens for water table observation wells MW-10, MW-11, and MW-12 were placed between 10 and 20 feet below grade, and the screens for adjacent piezometers MW-10A and MW-12A were placed between 40 and 45 feet below grade. Sand packs were placed around the screens as the augers were removed, and annular space seals were backfilled with bentonite. Each well is encased in flush mount protective casing cemented in place. Wells were developed on March 30th and 31st. Well casing and ground surface elevations were surveyed later that month. Drilling services were provided by Badger State Drilling of Stoughton, Wisconsin, and survey services were provided by Woodman & Associates of Fort Atkinson, Wisconsin. All drilling, well construction, and well development were completed in accordance with NR 141 requirements. Well construction and well development forms are also included in Appendix G.

2.5 Drainage Swale Surface Water and Sediment Sample Collection

Surface water samples were collected concurrent with quarterly groundwater samples between December 2014 and March 2016. All samples were analyzed for VOCs by USEPA Method 8260 in accordance with collection and shipping procedures described in Section 2.2. Surface water samples were collected as follows:

- At the storm sewer manhole north of SP-01 between MW-3 and TW-02;
- At the outfall adjacent to SP-01 near the MW-2 well nest, and
- At the drainage swale south of SP-01 prior to discharge to the culvert beneath the rail line near the west end of Lorman Street.³

A surface water sample was collected at the outfall adjacent to SP-01 during December 2014. Subsequent samples were collected at a storm sewer north of the outfall, at the outfall, and south of the outfall between March 2015 and March 2016. No sample was collected south of the outfall in September 2015 because the drainage swale was dry at that time. Surface water results are summarized in Table 8 and results are discussed in Section 4.5. Laboratory reports are included in Appendices with groundwater results.

Because contaminants were present in surface water samples collected from the drainage swale, a sample was collected to evaluate sediment contamination at the outfall. SED-1 was collected on October 7, 2015 between 6 and 12-inches below grade; the outfall area and drainage swale were dry at that time. SED-1 results were presented in the November 12, 2015 Work Plan along with recommendations for additional sediment sample collection to further evaluate contamination at the outfall. Borings were proposed within 5-feet of the outfall, and 15 and 25

³ The southern-most surface water sample was north (upstream) of another outfall pipe observed at the west side of the drainage swale.

to the south. Three sediment samples per boring were proposed at intervals 0.5 and 1.5, 2 and 4, and between 5 and 6 feet below grade.

Three borings (SED-2, SED-3, and SED-4) were advanced 5, 10, and 25 feet south of the outfall on March 23, 2016. Samples were collected between 0.5 and 2.0 feet below the base of the drainage swale at all three borings. Deeper samples between 2.0 and 4.0 feet below grade were collected at SED-3 and SED-4 (gravel and a large boulder encountered at SED-2 prevented samples collection below two feet. Native stiff clay soil prevented the collection of additional samples below four feet.

Following review of sediment samples collection on March 23rd additional samples were collected on April 8th to further characterize the lateral and vertical extent of sediment contamination. A sample was collected between 2 and 4 feet SED-1 to identify the vertical extent of contamination at the outfall. Two additional boring (SED-5 and SED-6) were advanced 45 and 65 feet south of the outfall to identify the lateral extent of contamination. Samples were collected between 0.5 and 2 feet and 2 and 4 feet at SED-5 and SED-6. Sediment sample results are summarized in Table 9, and laboratory reports are included in Appendix F. Results are discussed in Section 4.5.

All shallow sediment samples were collected using an AMS Multistage Sediment Sampler. This sampler consists two 12-inch long stainless steel core barrels threaded together. These two-inch diameter core barrels were threaded to an extension rod and advanced using a slide hammer. The core barrel was equipped with a rubber check flap stretched and fitted over holes in the cap to connect the extension rod to the top core barrel. As the core barrel was advanced, the flap cap opened allowing excess air and water to escape through the top of the sampler. When the core barrel was lifted, the rubber flap cap closed over these holes for suction for sample retention.

Two feet of soft silty clay material with abundant plant debris was encountered overlying a stiff silty clay layer. The 2-inch diameter core barrel could not be advanced below two feet. A one-inch diameter AMS core barrel was then used for samples between 2 and 4 feet. Both core barrels were decontaminated between samples by washing with a low phosphate detergent and rinsing with potable water, followed by rinsing with de-ionized water. Equipment was then allowed to air-dry prior to each use.

3.0 SOIL VAPOR EXTRACTION

3.1 Soil Vapor Extraction System Installation

A soil vapor extraction (SVE) system was operated between July and December 2007. The SVE system consisted of a trailer mounted blower that operated at 215 cubic feet per minute while connected to a network of lateral pipes. The lateral piping network was installed between November and December 2006. Installation of the lateral pipe network was described in the *May 2007 Construction Documentation Report for Soil Remediation System* prepared by RMT, Inc. The lateral pipe network is shown on Figure 3.

As described in the construction documentation report soil conditioning was performed by mixing lime with shallow native soils to increase soil permeability in the unsaturated zone; shallow soil units consist of silty sand and silty clay not amendable to SVE. A total 364,520 pounds of lime were mixed with 196,479 (7,277 cubic yards) of soil ranging in depth from six to nine feet below grade based on the depth to groundwater. Because of shallow groundwater, soil was excavated to six feet below grade at the north end of the site. Excavation depths increased to nine feet at the south end of the treatment area where groundwater depths increase.

Following soil treatment the SVE lateral piping was installed in trenches excavated with a two-foot wide backhoe at an approximate depth of four feet below grade. Pipes for the southern zones were installed between 4 and 4.5-feet below grade, and pipes for the northern zones were installed between 3 and 4 feet below grade. The lateral piping network consists of five zones (Zone A through E) of 4-inch diameter PVC piping placed horizontally in shallow trenches 20-feet on centers. Aboveground header pipe (to connect each buried pipe zone to a blower) was installed near the center of the piping network. As shown on Figure 3, lateral piping for each zone consists of the following:

- Zone A has six 36-foot long laterals;
- Zone B has five 63-foot long laterals;
- Zone C has two 45-foot long laterals and two 63-foot laterals;
- Zone D has five 40-foot long laterals and three 63-foot laterals, and
- Zone E has five 83-foot long laterals;

3.2 Soil Vapor Extraction System Operation

RMT reported elevated VOC concentrations in the July 17, 2007 effluent air sample (30,910 ppbv) at startup and in a sample collected three months later on September 17, 2007 (15,780 ppbv). No other information regarding operation or performance of the SVE system was reported.

In March 2014 the SVE system was restarted to remove additional contaminant mass from the unsaturated zone. Skid mounted SVE equipment was installed inside the building adjacent to an exterior wall near SVE laterals and well IW-01. The skid mounted unit consisted of a blower, an electric motor, a 55-gallon condensate collection drum and a control panel. The blower was a Gast Regenerative Blower (Model R6P155Q) that removed 170 cubic feet per minute under a vacuum of at 40-inches of water. The blower was operated by a single phase 5.5 horsepower electric motor wired to the existing electrical equipment inside the building. Two four inch diameter holes were cut through the exterior wall; one hole for the intake pipe and one for the discharge pipe. The intake pipe consisted of four inch diameter flexible tubing, and the discharge consisted of four-inch diameter schedule 40 PVC pipe.

The blower installed on March 4th operated approximately one day before the motor failed. A replacement blower was subsequently installed on March 26, 2014. The replacement blower (currently operating) is also a Gast Regenerative Blower (Model R6P155Q). The blower has operated at an induced vacuum pressure between 52 and 54-inches of water and removes approximately 150 cubic feet per minute. The blower was operated 649 out of 799 days between March 4, 2014 and May 12, 2016. Monthly effluent sample results are presented in Section 5.0.

4.0 GROUNDWATER MONITORING RESULTS

4.1 Groundwater Flow Conditions

As previously observed, the direction of groundwater flow at the DB Oak property is to the south-southeast. Groundwater flow conditions for June 2015 are shown on Figures 4 and 4A, and groundwater conditions for April 2016 are shown in Figures 5, 5A, and 5B. Figures 4 and 5 show groundwater elevations measured at water table observation wells. Figures 4A and 5A show groundwater elevations measured at “A” horizon piezometers (i.e. well screened placed 35 and 50 feet below grade), and Figure 5B show elevations measured at deeper “B” horizon piezometers (i.e. well screened placed 70 and 80 feet below grade).

Based on water levels measured at on- and off-site piezometers the regional direction of groundwater flow near the DB Oak property is to the south-southeast. However, water levels measured at off-site water table observation wells MW-6, MW-9, MW-10, MW-11, and MW-12 indicate that the direction of groundwater flow for the shallow flow regime south of the DB Oak property is to the east-northeast. The shallow groundwater flow regime is likely influenced by recharge at higher elevation area. Areas west and southwest of the DB Oak property are topographically higher in elevation while areas to the east and southeast lower in elevation.

To further evaluate shallow groundwater flow conditions at the southeast corner of the DB Oak property, a sand point well (SP-01) was installed near a storm water outfall in 2014⁴. As described in the May 2015 Annual Report, the ground surface elevation and top of well casing at SP-01 were surveyed to measure surface water elevations. Surface water elevations were measured at 788.32 feet msl on December 22, 2014 and 787.82 feet on March 10, 2015 (the drainage swale was dry on September 24, 2014). Groundwater elevations at MW-2 were measured at 780.43 feet on December 22, 2014 and at 779.69 feet on March 10, 2015. The difference between the surface water and groundwater elevation was 7.89 feet in December and 8.13 feet in March. A surface water elevation several feet above the water table indicates that the water table does not intersect surface water at the drainage swale. Groundwater elevations observed at MW-2 and MW-2A also indicate no upward vertical gradients. Elevations observed at MW-2 and MW-2A indicate little to no vertical gradient confirming horizontal flow beneath the swale. Though no hydraulic connection between groundwater and surface water was measured, seepage beneath the drainage swale may contribute to groundwater recharge.

⁴ Storm water from the DB Oak property discharges to a drainage swale at the southeast corner of the property. The swale originates at the outfall near MW-2 that extends south along the west side of a rail line. The swale terminates approximately 150 feet to the south where it discharges to a culvert beneath the rail line at the west end of Lorman Street; this culvert appears to discharge to a City storm sewer beneath Lorman Street; the drainage swale and nearby City storm sewers are shown on Figure 2.

Historic groundwater flow conditions have remained the same since water levels were initially measured in 2007, but groundwater elevations fluctuate seasonally. Groundwater elevations measured in September and December 2012 were the lowest measured at the site. High water table conditions were observed in April 2008, June 2010, March 2011, and June 2014. The difference between the maximum seasonal groundwater high and low water table varied across the site as follows:

- Between 2 and 3-feet at TW-02;
- Between 3 and 4 feet at TW-01, MW-3, and MW-9;
- Between 4 and 5 feet at TW-03;
- Between 5 and 8 feet at MW-1, MW-2, MW-4, MW-5, MW-7, and MW-8 and
- Between 13 and 14 feet at MW-6.

4.2 Groundwater Quality Standard Exceedances

Elevated CVOC concentrations were detected at site wells before and after treatment. Prior to treatment the highest CVOC concentrations were detected at wells MW-3, MW-3A, MW-3B, and MW-4. Elevated CVOC concentrations were also detected at TW-01, TW-02, TW-03 and at downgradient wells MW-2, MW-2A, and MW-7A. Following treatment CVOC concentrations declined at all locations. However, elevated CVOCs remained at MW-2, MW-2A, MW-3A, MW-3B, MW-4, TW-2, and TW-03. Results for quarterly samples between June 2015 and March 2016 are described below. Monitoring results for June 2015 are summarized in Tables 3 and 4, and September 2015, December 2015, and March 2016 results are summarized in Tables 5, 6, and 7, respectively.

4.2.1 June 2015 Groundwater Results

Table 3 shows groundwater quality standards were exceeded in June 2015 samples as follows:

- cis-1,2-DCE exceeded the 70 µg/l Enforcement Standard (ES) at TW-02, TW-03, MW-2, MW-2A, MW-3A, MW-3B, MW-4, MW-7A, MW-9, and MW-9A;
- trans-1,2-DCE exceeded the 20 µg/L Preventive Action Limit (PAL) at TW-02;
- Methylene chloride exceeded the 5 µg/L ES at TW-02, MW-2, and MW-2A;
- PCE exceeded the 5 µg/L ES at TW-02, TW-03, MW-2, MW-2A, MW-3B, MW-7A, and MW-9;
- TCE exceeded the 5 µg/l ES at TW-02, TW-03, MW-2, MW-2A, MW-3B, and MW-7A, and
- Vinyl chloride exceeded the 0.2 µg/l ES at TW-02, TW-03, MW-2A, MW-3, MW-3A, MW-3B, MW-4, MW-9, and MW-9A.

Table 4 shows groundwater quality standards were exceeded in June 2015 Geoprobe samples as follows:

- Benzene exceeded the 5 µg/l ES at GP-101 and the 0.5 µg/l PAL at GP-110 and GP-111;
- cis-1,2-DCE exceeded the 70 µg/l ES at GP-111, and the 7 µg/l PAL at borings GP-101, GP-103, and GP-104;
- Naphthalene exceeded the 10 µg/l PAL at GP-101;
- TCE exceeded the 0.5 µg/l PAL in shallow samples at GP-103 and GP-104;
- Total trimethylbenzene exceeded the 96 µg/l PAL at GP-101, and
- Vinyl chloride exceeded the 0.2 µg/l ES at GP-100, GP-101, GP-103, GP-104, and GP-111.

June 2015 groundwater elevations and isoconcentration contours for cis-1,2-DCE for the shallow groundwater (between 10 and 20 feet below grade) are shown on Figures 4. Elevations and cis-1,2-DCE isoconcentration contours for "A" horizon piezometers (between 30 and 45 feet below grade) are shown on Figure 4A.

4.2.2 September 2015 Groundwater Results

Table 5 shows groundwater quality standards were exceeded in September 2015 samples as follows:

- cis-1,2-DCE exceeded the 70 µg/l ES at TW-02, TW-03, MW-2, MW-2A, MW-3A, MW-3B, MW-4, MW-7A, MW-9 and MW-9A;
- PCE exceeded the 5 µg/l ES at TW-02, MW-2, MW-2B, MW-3B, MW-7A, and MW-7B;
- Toluene exceeded the 160 µg/l PAL at MW-3A;
- TCE exceeded the 5 µg/L ES at TW-02, MW-2, MW-2B, MW-3B, MW-4, and MW-7A, and the 0.5 µg/l PAL at MW-7B, and
- Vinyl chloride exceeded the 0.2 µg/l ES at TW-01, TW-02, TW-03, IW-01, MW-2A, MW-3, MW-3A, MW-3B, MW-4, MW-7B, and MW-9 and the 0.02 µg/l PAL at MW-3C.

4.2.3 December 2014 Groundwater Results

Table 6 shows groundwater quality standards were exceeded in December 2015 samples as follows:

- cis-1,2-DCE exceeded the 70 µg/l ES at TW-02, TW-03, MW-2, MW-2A, MW-3A, MW-3B, MW-4, MW-7A, MW-9 and MW-9A;

- trans-1,2-DCE exceeded the 20 µg/L PAL at TW-02;
- PCE exceeded the 5 µg/l ES at TW-02, TW-03, MW-2, MW-3B and MW-7A;
- TCE exceeded the 5 µg/l ES at TW-02, MW-2, MW-3B, and MW-7A and the 0.5 µg/l PAL at MW-3, and
- Vinyl chloride exceeded the 0.2 µg/l ES at TW-02, TW-03, MW-2A, MW-3, MW-3A, MW-3B, MW-4, MW-9, and MW-9A.

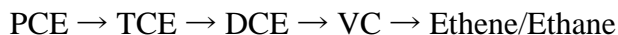
4.2.4 March 2015 Groundwater Results

Table 7 shows groundwater quality standards were exceeded in March 2016 samples as follows:

- cis-1,2-Dichloroethylene exceeded the 70 µg/l ES at TW-02, TW-03, MW-2, MW-2A, MW-3A, MW-3B, MW-4, MW-7A, MW-9, MW-9A, and MW-12A, and the 7 µg/l PAL at MW-2B and MW-12;
- trans-1,2-DCE exceeded the 20 µg/l PAL at TW-02;
- PCE exceeded the 5 µg/l ES at TW-02, TW-03, MW-2, MW-2B, MW-3B, MW-7A, and MW-7B, and the 0.5 µg/l PAL at TW-01;
- TCE exceeded the 5 µg/l ES at TW-02, TW-03, MW-2, MW-2B, MW-3B, MW-7A, and MW-7B, and the 0.5 µg/l PAL at TW-01 and,
- Vinyl chloride exceeded the 0.2 µg/l ES at TW-01, TW-02, TW-03, IW-01, MW-2A, MW-3, MW-3A, MW-3C, MW-4, MW-7B, MW-9, MW-12, and MW-12A.

4.3 Contaminant Concentration Trends

Decreasing concentrations of the parent compound (PCE) and daughter compounds (TCE, cis-1,2-DCE, and vinyl chloride) indicate reductive de-chlorination is ongoing. The expected reductive degradation pattern for PCE is as follows:



Parent and daughter compounds were detected in baseline samples in May 2009. Following in-situ treatment, declining concentrations of the parent and increasing concentrations of the daughter compounds were observed for quarterly results between September 2009 and March 2016. These results indicate that EOS injection and bacterial inoculation increased the rate of reductive de-chlorination. However, results also indicate that the degradation rates within the treatment zone vary by location. An evaluation of contaminant concentration trends using post-treatment monitoring data follows. These trends are also shown graphically on time versus concentration graphs shown in Appendix H. Historical groundwater results are summarized in Table 10.

4.3.1 Treatment Zone Concentration Trends

CVOCs in shallow groundwater at the east side of the DB Oak building are lower than pre-treatment concentrations. Rapid declines were as observed at TW-01 and MW-3 following initial treatment in June 2009, and at wells TW-02, TW-03, MW-3A, MW-3B, and MW-4 following supplemental treatment in May 2011. Post remediation monitoring results indicate that trace PCE and TCE levels remain at TW-01, TW-03, MW-3, MW-3A, and MW-4. PCE and TCE remain at TW-02 and MW-3B, but are below pre-treatment concentrations.

Reductive dechlorination of PCE and TCE resulted in formation of cis-1,2-DCE and vinyl chloride. These daughter products were detected at wells within the treatment zone prior to treatment, but increased following treatment. Increases for cis-1,2-DCE and vinyl chloride were observed at MW-3 following initial treatment (June 2009). Post treatment monitoring results indicate that trace levels trace levels of cis-1,2-DCE and vinyl chloride remain at TW-01 and MW-3. Samples at borings GP-100 and GP-101 advanced during the June 2015 also showed these conditions.

Daughter product increases were also observed at TW-02, TW-03, MW-3A, MW-3B, and MW-4 following supplemental treatment in May 2011. Concentrations of cis-1,2-DCE and vinyl chloride at TW-03 and MW-4 initially increased following treatment, but subsequently declined. Concentration at TW-02 also declined following treatment. However, concentrations of cis-1,2-DCE and vinyl chloride at MW-3A and MW-3B remain at or above pre-treatment concentrations.

4.3.2 Deep Piezometer Contaminant Concentration Trends

Decreasing parent and daughter compound concentrations indicate that reductive de-chlorination is occurring at depth at the MW-3 source area. Post treatment results for deep piezometers IW-01 and MW-3C indicate CVOC concentrations have declined. Only trace concentrations of parent and daughter compound remain at these wells screened over 100 feet beneath this source area. Post treatment daughter product exceedances are limited to vinyl chloride. Vinyl chloride concentrations at IW-01 declined from 4.8 µg/l in June 2011 µg/l to 1.6 µg/l in March 2016. At MW-3C it declined from 0.95 µg/l in June 2011 to 0.2 µg/l in March 2016.

Concentrations of parent and daughter compounds at MW-4A and MW-4B have also declined indicating reductive de-chlorination at depth at the MW-4 source area. Trace concentrations of parent and daughter compound concentrations remain 40 feet deep at MW-4A and 80 feet deep at MW-4B.

4.3.3 Downgradient Contaminant Concentration Trends

Groundwater quality standards were exceeded at downgradient wells MW-2, MW-2A, MW-7, and MW-7A. Declining contaminant concentrations indicate reduced migration from the source areas following in-situ treatment in June 2009 and May 2011. In addition, reductive de-chlorination was augmented at wells MW-2 and MW-2A in June 2009 when both wells were inoculated with bacteria.

Overall PCE and TCE concentrations at MW-2 and MW-2A declined following in-situ treatment. In the past year PCE and TCE at MW-2 were detected at concentrations slightly lower than pretreatment conditions. PCE and TCE concentrations at MW-2A declined significantly following treatment. Increasing daughter compound concentrations indicate reductive de-chlorination at the downgradient MW-2 well nest. Cis-1,2-DCE and vinyl chloride decreased at MW-2 and MW-2A following operation of the SVE system, but then increased following treatment.

PCE and TCE concentrations at MW-7 and MW-7A also showed declining trends following SVE system operation. Only trace levels of CVOCs remained at MW-7 following treatment. CVOC concentrations at MW-7B declined following system operation in 2007. PCE fluctuated between 25 and 120 µg/l in post treatment samples. TCE and cis-1,2-DCE concentrations declined significantly between 2009 and 2012. TCE began to rebound in March 2013 and cis-1,2-DCE began to rebound in June 2012. Slight increases for TCE and cis-1,2-DCE indicate reductive de-chlorination at MW-7A, albeit at a slow rate.

4.4 Geochemical Indicator Parameters

As described in Section 3.0, post treatment groundwater monitoring includes geochemical indicator parameters. These indicators include field measurements for pH, specific conductance, temperature, DO, and ORP, and laboratory analyses for sulfate and nitrate. Field measurements are summarized in Appendix A, and nitrate and sulfate results are summarized in Tables 2A and 2B, respectively.

Reductive de-chlorination conditions are suitable when DO concentrations are below 0.5 mg/l and ORP measurements are below 50 mV. The initial treatment in June 2009 resulted in an intended decline in DO and ORP at treatment area wells TW-01, TW-02, TW-03, IW-01, MW-3, MW-3A, MW-3B, MW-3C, MW-4, MW-4A, and MW-4B shortly after treatment began. Slight increases in DO occurred at downgradient wells MW-2, MW-2A, and MW-2B in 2014 and 2015. DO also increased at treatment area wells in 2015. DO exceeded 0.5 mg/l at TW-01, TW-02, TW-03, IW-01, MW-3A, MW-3B, MW-3C, MW-4, and MW-4A in September. ORP measurements also increased in 2014 and 2015, but remain below 50 mV. Though low ORP

measurements indicate reductive de-chlorination conditions remain suitable, increasing DO levels are unsuitable.

Declining sulfate concentrations confirm favorable reductive dechlorination conditions. Sulfate was detected at all baseline samples. Following initial treatment in June 2009 sulfate declines were observed at shallow treatment area wells TW-01, TW-02, TW-03, MW-3 and MW-4, and at piezometers IW-01, MW-3A, MW-3B, and MW-3C. Continued sulfate declines were also observed at piezometers MW-3A and MW-3B following supplemental treatment in May 2011. Slight increases were observed at TW-01 and MW-3 after March 2014, at TW-02 and MW-4 after December 2013, and at TW-03 after June 2012. However, concentrations remain below pre-treatment concentrations.

Nitrate concentrations below 1 mg/l also favor reductive de-chlorination. No nitrate was detected at treatment area wells IW-01, MW-3, MW-3A, MW-3B, MW-3C, MW-4A, and MW-4B prior to treatment or at the majority of wells after treatment. It was detected at a low concentration below 1 mg/l at MW-4 in June 2011 and March 2016, and at MW-3 in June 2011, but no detections were measured during the remaining events. These results indicate favorable conditions at the MW-3 and MW-4 source areas. Nitrate concentrations at TW-01, TW-02, and TW-03 also indicate favorable conditions within the treatment zone. Nitrate was detected above 1 mg/l prior to treatment at TW-01 and TW-03. With the exception of March 2011 at TW-02 and June 2011 at TW-01 and TW-02, it remained either below 1 mg/l or was non-detect for the remaining events. Nitrate was also detected at concentrations between non-detect and 0.36 mg/l at MW-2, and between 0.11 mg/l and 1 mg/l at MW-2B. It was detected above 1 mg/l at MW-7 and MW-7A. Elevated nitrate at MW-7A may limit reductive de-chlorination at this downgradient well.

4.5 Surface Water and Sediment Sample Results

PCE, TCE, cis-1,2-DCE and vinyl chloride were detected in surface water at the storm water outfall near the MW-2 well nest in December 2014. Consequently additional samples were collected between March 2015 and March 2016 concurrent with quarterly groundwater samples. Samples were collected at the outfall, north of the outfall at the storm sewer manhole near TW-02, and south of the outfall prior to its discharge to the culvert beneath the rail line. As shown in Table 8, PCE, TCE, cis-1,2-DCE, and vinyl chloride were measured in storm water discharging to the drainage swale. Concentrations declined between the on-site storm sewer and the outfall, but remained in surface water prior to discharge at the outfall.

Surface water sample results indicate that shallow groundwater discharges to a storm drain east of the DB Oak facility building. Following treatment VOC concentrations at wells TW-01 and MW-3 declined significantly, but TW-02 and TW-03 results confirm CVOCs in shallow

groundwater adjacent to storm sewer pipes at the center and north end of the treatment zone. Additionally, SVE effluent samples indicate VOCs in the unsaturated zone at Zone B laterals.

To further evaluate CVOC contamination at the outfall, a shallow sediment samples (SED-1) was also collected at the outfall in October 2015 and analyzed for VOCs. Based on results in the November 12, 2015 Work Plan, additional sediment samples were recommended at the outfall to identify the lateral and vertical extent of sediment contamination. Six borings were advanced on March 23rd and April 8th. Shallow samples were collected between 0.5 and 2 feet and between 2 and 4 feet below grade. All samples were analyzed for VOCs. As shown in Table 9, elevated CVOCs were detected in shallow samples collected at SED-1, SED-2, SED-3, and SED-4. Low concentrations were detected in shallow samples collected at SED-5 and SED-6, and in deep samples collected at SED-1, SED-3, SED-4, and SED-6.

Contaminants in sediment at the outfall area were likely caused by historic releases at the east side of the DB Oak building, conveyed through the storm drain to the drainage swale. Sediment results indicate elevated CVOC contamination is within the upper most two feet of soft silty clay material. Concentrations decline with distance from the outfall and with depth. Sediment contamination at the outfall likely contributes to CVOCs in surface water. A stiff silty clay unit encountered between 2 and 4 feet likely limits the vertical migration of contaminants. However, seepage beneath the drainage swale may also contribute to groundwater contamination at the MW-2 well nest.

4.6 Off-site Groundwater Contamination

Wells MW-9 and MW-9A were installed in November 2014 to further evaluate off-site migration of contaminants and groundwater flow conditions. Because elevated concentrations of cis-1,2-DCE were detected at these wells, an off-site investigation was completed in June 2015 to further identify the off-site lateral extent. Results were described in the November 12, 2015 Work Plan along with recommendations for additional off-site wells. Consequently off-site wells MW-10, MW-10A, MW-11, MW-12, and MW-12A were installed in March 2016.

During the June 2015 off-site investigation PCE was detected at low concentrations in the deep sample at GP-102. It was also detected at 37.7 µg/l at off-site well MW-9 in June 2015, but no detections were measured between September 2015 and March 2016. TCE was also detected at low concentrations in shallow samples at GP-103 and GP-104. Additionally, vinyl chloride was detected at MW-9, MW-9A, GP-100, GP-101, GP-103, GP-104, and GP-111, and cis-1,2-DCE was detected at MW-9, MW-9A and at borings GP-101, GP-102, GP-103, GP-104, GP-107, and GP-111. June groundwater elevations and shallow groundwater (between 10 and 20 feet below grade) cis-1,2-DCE isoconcentration contours are shown on Figures 4. Elevations and cis-1,2-

DCE isoconcentration contours for "A" horizon piezometers (i.e. wells screens between 35 and 50 feet below grade) are shown on Figure 4A.

As shown on Figure 4, the highest cis-1,2-DCE concentration was at shallow well MW-9 (2,300 µg/l) during the June 2015 investigation. Low concentrations were detected in shallow samples at GP-102 (60 µg/l), GP-104 (16 µg/l), GP-107 (0.90 µg/l), and GP-111 (3.8 µg/l). Accordingly, wells MW-10 and MW-11 were installed to further characterize off-site contamination. The absence of cis-1,2-DCE at MW-10 and MW-11 indicate no contaminant migration from the DB Oak property to the north end of the Hoard property. Based on water levels measured at wells MW-6, MW-9, MW-10, and MW-11 groundwater flow at the Hoard property is to the east-northeast. An upgradient source for contamination at MW-9 is likely present between the southeast corner of the Hoard building and the north end of Edward Street. Potential sources include the following:

- The three car garage west of the north end of Edward Street and the rail line;
- The former Modern Machine facility west of the rail line and Hoard property;
- The former automotive service station east of the north end of Edward Street and south of the Hoard building;
- The former freight house building at southwest corner of the Hoard property, and
- The southeast corner of the existing Hoard printing building.

As shown on Figure 4A, cis-1,2-DCE was also detected at piezometer MW-9A (358 µg/L) and in deep samples at GP-102 (0.53 µg/L) and GP-103 (0.39 µg/L), and GP-111 (180 µg/L) during the June 2015 investigation. The absence of cis-1,2-DCE at MW-10A indicates no contaminant migration from the DB Oak property to the west side of the Hoard property. Though MW-9A is downgradient from source areas at the DB Oak property, the off-site source for MW-9 may be a source for cis-1,2-DCE at MW-9A.

Low cis-1,2-DCE concentrations were detected in shallow samples at GP-111 and at MW-12 while elevated cis-1,2-DCE was detected in the deep sample at GP-111 and at piezometer MW-12A. Results for boring GP-111 and wells MW-12 and MW-12A are consistent with a source area at the southeast corner of the Lorman property. As described in previous reports, an investigation was completed at the Uncle Josh Bait (UJB) shop property between 2011 and 2012. During June 2012 samples were collected from UJB wells concurrent with DB Oak wells⁵. Contaminants detected at former UJB wells indicate more than one upgradient off-site source.

⁵ June 2012 groundwater monitoring results were submitted to WDNR on July 19, 2012 (*June 2012 Groundwater Summary*). Figures showing groundwater elevations and isoconcentration contours for shallow groundwater and shallow piezometers, along with a recommendation to assume ownership of the UJB wells were included in that report. The UJB site owners declined that offer and subsequently abandoned the wells.

Cis-1,2-DCE was detected at former UJB wells MW-1, MW-2, MW-1A, MW-6, and MW-6A at the northeast corner of the UJB property. These results indicate a likely upgradient source at the southeast corner of the Lorman property. Boring GP-111 and the MW-12 well nest are directly down gradient from former UJB wells at and the Lorman property.

Cis-1,2-DCE was also detected at elevated concentrations at UJB piezometer MW-4A. This well is at the southeast quadrant of the intersection of Clarence and Lorman Streets, downgradient from the DB Oak MW-3 source area. However, UJB well MW-4A is also downgradient from the south end of the Lorman Property. During the mid-1990's three shallow monitoring wells were installed at the intersection of Clarence and Lorman Streets following removal of three former underground petroleum storage tanks. Petroleum and chlorinated VOCs were detected at low concentrations in samples collected between 1995 and 2001. The investigation was limited to shallow groundwater, and no source area was identified at that time.

Elevated cis-1,2-DCE at UJB piezometers MW-1A and MW-4A indicate that contaminants have migrated vertically from upgradient source areas. Contaminants at UJB well MW-1A likely migrated from a source area at the southeast corner of the Lorman Property. Contaminants at UJB well MW-4A may have migrated off-site from the DB Oak MW-3 source area, or from another source at Lorman Property. Low concentrations of contaminants at former UJB piezometer MW-6A installed between MW-1A and MW-4A indicates separate source areas.

5.0 SOIL VAPOR EXTRACTION SYSTEM RESULTS

Skid mounted SVE equipment was connected to existing lateral pipes on March 4, 2014 and began operating that same day. The blower operated approximately one day before the motor failed. A replacement blower was subsequently installed on March 26, 2014. Between March 4, 2014 and May 12, 2016 the system operated 649 out of 799 days. The shutdown periods during this time are described as follows:

- Off 21 days between March 5 and 26, 2014 to replace the blower;
- Off 11 days between October 10 and 21, 2014, likely the result of a power outage;
- Off 20 days between November 13 and December 3, 2014 due to extreme cold weather;
- Off 10 days between February 24 and March 6, 2015 due to extreme cold weather;
- Off 3 days between August 1 and 6, 2015 due to a power outage, and
- Off 85 days between December 21, 2015 and March 15, 2016 due to high water table conditions and cold weather.

The initial effluent sample was collected on March 5, 2014 after the SVE system operated while the blower was connected to the five zones. Between March 26th and May 2nd the blower continued to operate while connected to the five lateral pipes. Subsequent effluent samples were collected monthly between May 2014 and December 2015, and in March and May 2016. Results are summarized below.

Constituents		cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	Vinyl chloride	Total CVOCs
Date	Zone						
5-Mar-14	Zones A to E	1,380	<898	1,190	351	9,970	12,891
2-May-14	Zone B	739	<6.95	954	180	193	2,066
3-Jun-14	Zone A	3.03	<0.27	15.4	6.1	0.385	24.915
1-Jul-14	Zone B	928	<89	1,240	164	2,260	4,592
6-Aug-14	Zone B	397	14	676	229	71	1,386.8
4-Sep-14	Zone C	1.79	<0.3	8.86	2.91	<0.14	13.6
2-Oct-14	Zone D	1	<0.27	10.40	4.8	<0.13	16.2
4-Nov-14	Zone E	0.92	<0.27	15.10	4.3	<0.14	20.3
12-Dec-14	Zone E	0.92	<0.27	10.40	3.3	<0.13	14.6
5-Jan-15	Zone B	3.1	<0.27	30.20	4.5	0.21	38.01
6-Feb-15	Zone B	204	4.2	579	76.3	88	951.60
6-Mar-15	Zone B	162	<1.1	616	92.1	77.7	947.80
8-Apr-15	Zone B	133	<1.1	669	74.9	31.2	908.10

Constituents		cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	Vinyl chloride	Total CVOCs
Date	Zone						
8-May-15	Zone B	156	4.8	480	95.2	19.5	755.50
3-Jun-15	Zone B	133	3.6	352	99.4	14.5	602.50
2-Jul-15	Zone B	156	<2.6	585	169	12.5	922.50
6-Aug-15	Zone B	0.82	<0.13	1	10.4	<0.1	12.62
8-Sep-15	Zone B	434	12.6	2,060	443	14.9	2,964.50
7-Oct-15	Zone B	201	<20.4	830	190	<16.1	1,221.00
12-Nov-15	Zone B	136	<2.6	1,100	132	6.9	1,374.90
4-Dec-15	Zone B	66.5	<2.4	366	54.9	11.5	498.90
31-Mar-16	Zone A & B	107	1.6	322	42.7	15.8	489.10
12-May-16	Zone A & B	10.4	0.27	32.3	8.6	0.81	52.38

All units reported in ppbv

All effluent samples were collected in summa canisters shipped from the laboratory under negative pressure. The samples were collected via a sample port at the discharge pipe. Each canister was returned to the laboratory and analyzed for CVOCs (cis-1,2-dichloroethene, trans-1,2-dichloroethene, PCE, TCE, and vinyl chloride) by Method TO15. Laboratory services were provided by Pace Analytical of Minneapolis Minnesota. Laboratory reports are included in Appendix I.

Effluent sample results indicate that the SVE system is removing contaminant mass. The highest CVOC concentration (12,891 ppbv) was detected following the first day of operation. Total CVOCs declined in May 2014 (2,066 ppbv) while the blower was connected to Zone B laterals. In June 2014 the blower was connected to Zone A laterals and CVOCs were detected at low concentrations (24.915 ppbv). The blower connection was then reconnected to Zone B laterals in July and elevated CVOCs were detected that month (4,592 ppbv) and in August (1,386.8 ppbv). Between September and December 2014 the blower connection was attached to Zone C, D, and E laterals, and low concentrations of CVOCs were detected at each lateral.

In January 2015 the blower was connected to Zone B laterals for the remainder of the year. Low CVOCs (38.01 ppbv) were detected in the January 2015 sample, but elevated CVOCs (between 602.5 and 951.6 ppbv) were detected in subsequent samples collected between February and July 2015. Low CVOCs (12.62 ppbv) were detected in the August 2015 sample, but increased to 2,964.5 ppbv in September 2015, 1,120 ppbv in October 2015, and 1,374.9 ppbv in November 2015. CVOCs declined to 498.9 ppbv in December 2015. The system was shut down between mid-December and mid-March due to high water table conditions. On March 15, 2016 it was reconnected to laterals A and B. An effluent sample was collected in late March two weeks after

the system was restarted and CVOCs were detected at 489.1 ppbv. A sample was also collected on May 12th and CVOCs were detected at 52.38 ppbv.

Effluent air samples results indicate CVOCs remain in the unsaturated zone near Zone B laterals and that the SVE system continues to remove contaminant mass. During 2015 low CVOC levels corresponded to high water table conditions, and elevated CVOC correspond to low water table conditions. Elevated CVOCs measured during low water table conditions correspond to removal of contaminant mass from the 'smear zone' (the zone between the seasonal groundwater high and low). Additional contaminant mass removal is anticipated at the south end of the site (at laterals A and B) during low water table conditions. Low water table conditions may also improve mass removal at the north end of the site (at laterals C, D, and E) where groundwater is encountered at shallower depths.

6.0 SUMMARY AND CONCLUSIONS

Site investigations completed between 2004 and 2007 identified two source areas for PCE at the east side of the DB Oak facility building. These source areas include the loading dock near the MW-3 well nest and the former PCE tank near the MW-4 well nest. The highest PCE concentrations were detected at treatment area wells MW-3, MW-3A, MW-3B, and MW-4. Elevated PCE concentrations at piezometers MW-3A and MW-3B indicate contaminants migrated vertically at the MW-3 source. However, low concentrations at piezometer MW-4A indicate no significant vertical contaminant migration at the MW-4 source. Contaminants at TW-01 and TW-02 are likely related to the MW-3 source area, and TW-03 contaminants are related to the MW-4 source area.

Post treatment results indicate that EOS injection and bacterial inoculation in 2009 increased the reductive de-chlorination rate. Decreasing PCE and TCE concentrations concurrent with increasing cis-1,2-DCE and vinyl chloride concentrations were observed following initial treatment (June 2009). However, post treatment monitoring results indicate that the degradation rates varied within the treatment zone. The most significant changes were observed at the MW-3 source area. A significant CVOC decrease was observed at TW-01 within the first year. Only low CVOC concentrations were detected in subsequent years. A significant PCE and TCE decline concurrent with increasing cis-1,2-DCE and vinyl chloride concentrations were observed at MW-3 within the first year. Cis-1,2-DCE and vinyl chloride concentrations subsequently declined during 2010 and 2011 and remained elevated through 2012 before declining during 2013. Only low concentrations have been detected at MW-3 since September 2013.

Low to moderate PCE and TCE declines concurrent with moderate cis-1,2-DCE and vinyl chloride increases were observed during the first and second years of post-treatment monitoring at wells TW-02, TW-03, MW-3A, MW-3B, and MW-4. To further enhance de-chlorination, supplemental in-situ treatment was completed in May 2011. Following supplemental treatment, PCE and TCE declines were observed at MW-3A, MW-4, and TW-03. Significant PCE and TCE declines were observed at MW-3B following supplemental treatment, concentrations rebounded in 2012. PCE and TCE increased at TW-02 following supplemental treatment, but concentrations declined steadily after June 2012. As PCE and TCE concentrations declined at wells TW-03, MW-3A, MW-3B, and MW-4, cis-1,2-DCE and vinyl chloride concentrations increased.

Low PCE and TCE concentrations were detected at deep piezometers IW-01, MW-3C, MW-4A, and MW-4B before and after treatment. Following treatment cis-1,2-DCE and vinyl chloride concentrations also declined at these wells. Decreasing parent and daughter compound concentrations at these deep piezometers indicate reductive de-chlorination at depth beneath the

MW-3 and MW-4 source areas. Additionally, declining contaminant concentrations at downgradient well nests MW-2 and MW-7 indicate SVE system operation in 2007 and subsequent in-situ treatment in June 2009 and May 2011 improved groundwater quality downgradient from the MW-3 and MW-4 source areas.

Overall post treatment results for TW-01 and MW-3 indicate that trace levels of contaminants remain in shallow groundwater at the MW-3 source area following initial treatment in 2009. Following supplemental treatment in 2011, contaminants remained above groundwater standards at TW-02 and in deep groundwater at MW-3A and MW-3B, but concentrations were below pre-treatment conditions. Post treatment results for wells TW-03 and MW-4 also indicate residual contamination in shallow groundwater at the MW-4 source area; results for MW-4A and MW-4B indicate no vertical migration of contaminants. Contaminants in shallow groundwater at the MW-4 source exceed standards, but are below pre-treatment concentrations. Significant declines in PCE and TCE concentrations were observed at both source areas, but cis-1,2-DCE and vinyl chloride remain. Microbial samples are needed to further evaluate conditions for reductive dechlorination. Supplemental treatment may be needed to stimulate the microbial population if cis-1,2-DCE and vinyl chloride results indicate microbial populations are no longer sufficient for dechlorination.

SVE effluent air results indicate contaminants remain in the unsaturated zone near Zone B laterals. Since 2014 operation of the SVE system has removed contaminant mass from the unsaturated zone and improved groundwater quality at TW-02. Higher effluent concentrations during low water table conditions correspond to removal of contaminant mass from the 'smear zone'. Additional contaminant mass removal can be anticipated at the MW-3 source area (at laterals A and B) during low water table conditions. High water table conditions have prevented SVE system operation at the north end of the treatment zone, but contaminant mass removal at the MW-4 source area (at laterals C, D, and E) is also anticipated during low water table conditions.

Surface water results between December 2014 and March 2016 indicate that shallow groundwater is seeping into a storm drain at the side east of the DB Oak facility building. Concentrations declined between the on-site storm sewer near TW-02 and the outfall near the MW-2 well nest, but remained in surface water prior to discharge at the outfall at the west end of Lorman Street. To further evaluate contamination at the outfall, a shallow sediment sample was collected in October 2015 and analyzed for VOCs. Based on results in the November 12, 2015 Work Plan, additional sediment samples were recommended to identify the lateral and vertical extent of sediment contamination at the outfall and drainage swale. Six borings were advanced on March 23rd and April 8th. Results indicated elevated CVOCs within the upper two feet of soft

silty clay material at the outfall area. However, concentrations declined with distance and depth from the outfall.

Elevated CVOCs in sediment samples indicate a third on-site source at the outfall. Sediment contaminants likely result from historic releases east of the DB Oak building conveyed through the storm drain to the outfall and drainage swale. A stiff silty clay unit between 2 and 4 feet likely limits the vertical migration of contaminants. Though no hydraulic connection is present between groundwater and surface water in the drainage swale, seepage from the drainage swale likely contributes to groundwater contamination at MW-2 and MW-2A. Sediment removal will likely improve surface water and groundwater quality downstream of the storm sewer and the MW-2 well nest.

Wells MW-9 and MW-9A were installed in November 2014 to evaluate off-site contamination and groundwater flow conditions. An investigation was subsequently completed in June 2015 to further identify the lateral extent of off-site contamination. Results presented in the November 12, 2015 Work Plan along with recommendations for additional off-site wells. Wells MW-10, MW-10A, MW-11, MW-12, and MW-12A were subsequently installed in March 2016 to further characterize off-site contamination and groundwater flow conditions.

Based on water levels measured at off-site water table observation wells MW-6, MW-9, MW-10, and MW-11 groundwater flow at the Hoard property is to the east-northeast. An upgradient source for cis-1,2-DCE at MW-9 is likely present between the southeast corner of the Hoard building and the north end of Edward Street. The absence of cis-1,2-DCE at MW-10 and MW-11 indicate no contaminant migration from the DB Oak property to the north end of the Hoard property. The absence of cis-1,2-DCE at MW-10A also indicate no contaminant migration from DB Oak to the west side of the Hoard property. Though MW-9A is downgradient from source areas at the DB Oak property, the off-site source for MW-9 may be a source for cis-1,2-DCE at MW-9A.

Low concentrations of cis-1,2-DCE were detected in shallow samples collected at GP-111 and at MW-12 while elevated cis-1,2-DCE was detected in the deep sample collected at GP-111 and at piezometer MW-12A. These results along with previously completed investigations at the UJB property are consistent with a source area at the southeast corner of the Lorman property. Contaminants detected at former UJB wells MW-1, MW-2, MW-1A, MW-6, and MW-6A at the northeast corner of the UJB property indicate a likely source at the southeast corner of the Lorman property. Boring GP-111 and the MW-12 well nest are directly downgradient from these former UJB wells.

Cis-1,2-DCE was also detected at elevated concentrations at UJB piezometer MW-4A. This well is downgradient from the DB Oak MW-3 source area and the south end of the Lorman Property. During the mid-1990's three shallow monitoring wells were installed at the intersection of Clarence and Lorman Streets to evaluate groundwater contamination following removal of three former underground petroleum storage tanks at the south end of the Lorman property. Petroleum and chlorinated VOCs were detected at low concentrations in samples collected between 1995 and 2001. The investigation was limited to shallow groundwater, and no source area was identified at that time.

Low concentrations of cis-1,2-DCE at former UJB wells and elevated cis-1,2-DCE at UJB piezometers MW-1A and MW-4A indicate that contaminants have migrated vertically from upgradient source areas. Low concentrations of contaminants at former UJB piezometer MW-6A installed between MW-1A and MW-4A indicates separate source areas. Contaminants at UJB well MW-1A likely migrated from a source at the southeast corner of the Lorman Property. Contaminants at UJB well MW-4A may have migrated off-site from the DB Oak MW-3 source area, or from another source at the Lorman Property.

7.0 RECOMMENDATIONS

Shannon & Wilson recommends continued operation of the SVE system and monthly effluent air monitoring to evaluate system effectiveness. The blower should continue to operate at Zone B until concentrations decline. The blower should then be connected to the remaining laterals (Zones A, C, D, and E) to verify low levels. The SVE system should continue operation through April 2017. Shannon & Wilson also recommends a vapor intrusion investigation at the adjacent building following additional contaminant mass removal to verify that the SVE system has eliminated the vapor intrusion pathway. The vapor intrusion evaluation should be in accordance with the *Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin* Guidance document dated December 2010.

To further evaluate the effectiveness of the SVE system and previously completed in-situ treatment Shannon & Wilson recommends continued quarterly groundwater monitoring during the months of June, September, December 2015 and March 2016. The recommended program is summarized below.

Sampling Event	Treatment Area Wells	Downgradient Wells	Off-site Wells
June 2016	TW-02, -03 MW-3A, -3B MW-4	MW-2, -2A MW-7A	MW-10, -10A MW-11
September 2016	IW-01 TW-01, -02, -03 MW-3, -3A, -3B, -3C MW-4, -4A	MW-2, -2A, -2B MW-7, -7A, -7B	MW-10, -10A MW-11
December 2016	TW-02, -03 MW-3A, -3B MW-4	MW-2, -2A MW-7A	MW-10, -10A MW-11
March 2017	IW-01 TW-01, -02, -03 MW-3, -3A, -3B, -3C MW-4, -4A	MW-2, -2A, -2B MW-7, -7A, -7B	MW-10, -10A MW-11

Water levels should be measured at all wells during each sampling event, including perimeter wells MW-1, MW-5, MW-6, MW-6A, MW-8, MW-8A, and MW-8B, and off-site wells MW-10, MW-10A, MW-11, MW-12, and MW-12A. No additional samples should be collected from MW-4B because no PAL exceedances since March 2012 and no ES exceedances since June 2011 have been measured.

All groundwater samples should be analyzed for VOCs. September and March samples collected from treatment area and downgradient wells should also be analyzed for sulfate, nitrate, and field measurements for pH, specific conductance, temperature, dissolved oxygen, oxidation reduction potential.

In addition to groundwater sample collection, microbial samples should be collected to further evaluate reductive de-chlorination conditions. Microbial samples will utilize passive Bio-Trap Samplers placed at wells TW-02, TW-03, MW-2A, MW-3A, MW-3B, and MW-4. Bio-Trap Samplers are constructed with beads that adsorb contaminants and nutrients within the aquifer. When a Bio-Trap Sampler is deployed in a well, the beads are colonized by subsurface microorganisms.

Once recovered the beads will be analyzed to evaluate the microbial community and compared to microbial populations observed in 2010. Bio-Trap samplers were installed following the collection of groundwater samples in June 2010, and submitted to Microbial Insights, Inc. of Rockford Tennessee for a CENSUS assay. Elevated microbial populations were observed at wells TW-01, TW-03, MW-3, MW-3A, and MW-4 confirming the presence of daughter products. If supplemental treatment is needed, a work plan will be submitted to WDNR for review and approval.

Shannon & Wilson also recommends removal of the uppermost two feet of contaminated sediment at the drainage swale originating at the outfall near the MW-2 well nest. Removal will require permission from the off-site property owner and may require a formal “contained-out” determination from WDNR for off-site landfill disposal. If a formal contained out determination is required, a work plan will be submitted to WDNR for review and approval.

Groundwater monitoring results will be presented in the annual report for WDNR review in April or early May 2017. Post treatment results will then be used to evaluate natural attenuation as a final remedy. Post treatment groundwater monitoring data will be used to show the plume is stable or receding, and that groundwater quality standards will be achieved within a reasonable period of time. Conditional closure will require inclusion of the site on the WDNR’s Geographic Information System (GIS) Registry of Closed Remediation Sites along with proper site monitoring well abandonment.

8.0 REFERENCES

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Groundwater Monitoring Report, DB Oaks Facility, 700-710 Oak Street, Ft. Atkinson, Wisconsin. Prepared by Shannon & Wilson, May 12, 2015.

Tables

Table 1
Monitoring Well Construction and Groundwater Elevations
DB Oak Facility, Fort Atkinson, Wisconsin

Well Location	Reference Elevation	Ground Elevation	Top of Screen Elevation	Depth to Top of Screen	Bottom of Screen Elevation	Depth to Bottom of Screen	June 18, 2015		September 22, 2015		December 21, 2015		March 21, 2016		April 8, 2016	
							Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation
IW-01	793.11	793.35	697.35	96	687.35	106	10.88	782.23	11.16	781.95	9.83	783.28	9.91	783.20	9.22	783.89
TW-01	793.08	793.33	788.33	5	778.33	15	8.32	784.76	8.65	784.43	8.02	785.06	8.35	784.73	7.61	785.47
TW-02	793.38	793.88	788.88	5	778.88	15	4.31	789.07	4.55	788.83	3.75	789.63	3.79	789.59	3.40	789.98
TW-03	793.20	792.65	787.65	5	777.65	15	2.20	791.00	3.05	790.15	1.61	791.59	1.70	791.50	1.50	791.70
MW-1	793.36	791.3	783.3	8	773.30	18	12.10	781.26	12.41	780.95	10.95	782.41	10.88	782.48	9.97	783.39
MW-2	791.21	791.5	786.0	5.5	776.00	15.5	9.99	781.22	10.32	780.89	8.9	782.31	8.84	782.37	8.06	783.15
MW-2A	791.27	791.5	756.5	35	751.50	40	10.01	781.26	10.32	780.95	8.92	782.35	8.85	782.42	8.04	783.23
MW-2B	791.20	791.5	711.5	80	706.50	85	10.03	781.17	10.36	780.84	8.94	782.26	8.89	782.31	8.09	783.11
MW-3	793.20	790.9	787.9	3	777.90	13	5.58	787.62	5.49	787.71	5.38	787.82	5.70	787.50	5.15	788.05
MW-3A	793.51	790.9	747.9	43	742.90	48	11.61	781.90	11.85	781.66	10.31	783.20	10.37	783.14	9.68	783.83
MW-3B	793.45	791.1	716.1	75	711.10	80	11.34	782.11	11.86	781.59	10.35	783.10	10.42	783.03	9.73	783.72
MW-3C	793.49	791.0	666.0	125	661.00	130	11.6	781.89	12.04	781.45	10.59	782.90	10.63	782.86	9.90	783.59
MW-4	799.24	796.8	791.8	5	781.80	15	7.87	791.37	8.89	790.35	7.08	792.16	6.95	792.29	6.80	792.44
MW-4A	799.13	797.1	763.1	34	758.10	39	7.75	791.38	8.76	790.37	6.98	792.15	7.01	792.12	6.68	792.45
MW-4B	799.07	796.9	716.9	80	711.90	85	7.83	791.24	8.02	791.05	7.05	792.02	7.09	791.98	6.76	792.31
MW-5	798.51	796.2	792.2	4	782.20	14	6.71	791.80	8.73	789.78	5.1	793.41	4.88	793.63	4.43	794.08
MW-6	797.29	797.7	791.7	6	781.70	16	12.86	784.43	10.32	786.97	3.71	793.58	6.78	790.51	4.87	792.42
MW-6A	797.45	797.8	762.8	35	757.80	40	17.21	780.24	17.52	779.93	15.96	781.49	15.90	781.55	15.03	782.42
MW-7	794.48	792.0	782.0	10	772.00	20	13.01	781.47	13.29	781.19	11.81	782.67	11.76	782.72	10.94	783.54
MW-7A	794.28	792.1	752.1	40	747.10	45	12.88	781.40	13.17	781.11	11.75	782.53	11.66	782.62	10.86	783.42
MW-7B	794.24	791.8	711.8	80	706.80	85	12.85	781.39	13.16	781.08	11.73	782.51	11.69	782.55	10.85	783.39
MW-8	795.03	792.8	782.8	10	772.80	20	4.03	791.00	4.96	790.07	3.19	791.84	3.34	791.69	3.04	791.99
MW-8A	795.17	792.8	747.8	45	742.80	50	11.79	783.38	12.21	782.96	10.75	784.42	10.80	784.37	10.11	785.06
MW-8B	795.19	792.7	712.7	80	707.70	85	11.80	783.39	12.23	782.96	10.77	784.42	10.81	784.38	10.12	785.07
MW-9	790.91	790.5	780.5	10	770.5	20	10.69	780.22	11.02	779.89	9.51	781.40	9.52	781.39	8.64	782.27
MW-9A	791.16	791.6	752.1	39.5	747.1	44.5	10.94	780.22	11.32	779.84	9.74	781.42	9.75	781.41	8.89	782.27
MW-10	791.17	791.69	781.7	10	771.7	20	--	--	--	--	--	--	--	--	4.96	786.21
MW-10A	791.25	791.71	750.7	41	745.7	46	--	--	--	--	--	--	--	--	8.32	782.93
MW-11	790.20	790.72	780.7	10	770.7	20	--	--	--	--	--	--	--	--	6.98	783.22
MW-12	793.72	794.14	784.1	10	774.1	20	--	--	--	--	--	--	--	--	11.56	782.16
MW-12A	793.54	793.98	754.0	40	749.0	45	--	--	--	--	--	--	--	--	11.38	782.16

* Surface water elevation at SP-01

Table 2 (Page 1 of 2)
Groundwater Sample Results for Nitrate as N
DB Oak Facility, Fort Atkinson, Wisconsin

Well Location	May 2009*	Sep. 2009	Dec. 2009	Mar. 2010	June 2010	Sep. 2010	Dec. 2010	Mar. 2011	June 2011**	Sep. 2011	Dec. 2011	Mar. 2012	June 2012	Sep. 2012	Dec. 2012	Mar. 2013	June 2013	Sep. 2013	Dec. 2013	Mar. 2014	June 2014	Sep. 2014	Dec. 2014	Mar. 2015	Sep. 2015	Mar. 2016
IW-01	<0.025	<0.025	<0.025	<0.025	<0.025	<0.13	<0.13	<0.025	0.91	<0.050	< 0.033 >	<0.050	--	<0.025	--	--	--	< 0.31 >	--	<0.025	--	--	--	<0.025	< 0.027 >	< 0.027 >
TW-01	4.1	0.34	<0.025	<0.025	<0.025	<0.13	<0.050	<0.025	4.2	<0.050	<0.025	<0.050	--	< 0.052 >	--	<0.025	--	--	--	<0.025	--	< 0.036 >	--	0.27	0.20	0.21
TW-02	0.14	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.4	4.6	<0.050	<0.025	0.34	--	< 0.032 >	<0.050	0.10	<0.025	--	0.098	<0.025	< 0.051 >	<0.025	<0.025	0.19	<0.050	<0.019
TW-03	4.3	<0.025	<0.025	<0.025	<0.025	<0.13	--	<0.025	0.15	<0.050	<0.025	0.17	--	< 0.054 >	<0.050	<0.025	<0.025	--	<0.025	<0.025	< 0.054 >	< 0.030 >	< 0.044 >	<0.025	<0.050	< 0.061 >
MW-2	0.23	<0.025	< 0.047 >	--	< 0.055 >	< 0.025 >	< 0.066 >	< 0.057 >	0.081	<0.050	< 0.035 >	0.11	0.090	< 0.028 >	<0.050	0.18	0.36	0.22	0.13	0.17	<0.20	< 0.049 >	< 0.034 >	<0.025	< 0.088 >	0.18
MW-2A	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.069 >	<0.050	<0.025	<0.050	<0.025	<0.025	<0.050	<0.050	<0.025	<0.025	<0.025	<0.025	< 0.030 >	<0.025	< 0.027 >	<0.025	<0.050	<0.019
MW-2B	0.11	0.76	0.60	--	0.18	0.53	0.58	0.64	< 0.039 >	0.42	0.38	0.41	--	0.50	--	1.1	--	0.82	--	1.1	--	0.48	--	0.92	1.0	0.94
MW-3	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.13	<0.025	0.4	<0.050	<0.025	<0.050	<0.025	<0.025	<0.050	<0.050	<0.025	<0.025	<0.025	<0.025	< 0.027 >	< 0.038 >	< 0.031 >	<0.025	<0.050	< 0.051 >
MW-3A	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025	1.3	<0.050	<0.025	<0.050	<0.025	<0.025	<0.050	<0.050	<0.025	<0.025	<0.025	<0.025	< 0.035 >	< 0.041 >	< 0.038 >	<0.025	<0.050	< 0.048 >
MW-3B	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.85	<0.050	<0.025	<0.050	<0.025	<0.025	<0.050	<0.050	<0.025	<0.025	< 0.32 >	<0.025	< 0.044 >	< 0.033 >	< 0.029 >	<0.025	<0.050	< 0.030 >
MW-3C	<0.025	<0.025	<0.025	<0.025	<0.025	<0.13	<0.025	<0.025	0.89	<0.050	<0.025	<0.050	--	<0.025	--	--	--	<0.025		<0.025	--	< 0.043 >	--	<0.025	<0.050	< 0.056 >
MW-4	<0.025	<0.025	<0.025	<0.025	<0.025	<0.13	<0.13	<0.025	0.25	<0.050	< 0.032 >	<0.050	<0.025	<0.025	<0.050	<0.050	--	<0.025	<0.025	<0.025	< 0.070 >	< 0.055 >	< 0.049 >	<0.025	<0.050	0.15
MW-4A	<0.025	<0.025	<0.025	<0.025	<0.025	<0.13	<0.025	<0.025	0.35	<0.050	<0.025	<0.050	<0.025	<0.025	--	<0.050	--	<0.025	--	<0.025	2.3	< 0.040 >	--	<0.025	<0.050	< 0.035 >
MW-4B	<0.025	<0.025	<0.025	--	<0.025	<0.13	<0.025	<0.025	0.17	<0.050	<0.025	<0.050	--	<0.025	--	<0.050	--	<0.025	--	<0.025	--	< 0.038 >	--	< 0.026 >	<0.050	--
MW-7	0.099	0.22	0.46	0.27	--	--	--	--	--	--	--	<0.050	--	3.7	--	1.0	--	0.43	--	0.42	--	1.6	--	0.88	1.3	1.7
MW-7A	2.9	2.70	3.10	2.5	2.8	2.8	3.0	2.2	< 0.026 >	3.0	2.1	1.3	1.2	1.1	1.1	1.0	1.9	1.9	2.2	1.9	--	3.6	2.5	2.1	1.6	1.3
MW-7B	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.074 >	<0.050	<0.025	<0.050	--	<0.025	--	0.41	--	< 0.041 >	--	< 0.27 >	--	< 0.040 >	--	<0.025	< 0.086 >	0.84
MW-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.17	0.16	0.42
MW-9A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.025	< 0.029 >	<0.019

* Samples for TW-01, TW-02, and TW-03 were collected on June 1, 2009.
** The laboratory inadvertently analyzed June 2011 samples for ammonia as N rather than nitrate as N.
All units reported in mg/L.
All detected constituents are shown in bold.
< - Detected below Limit of Detection
< > Detected above Limit of Detection, but below Limit of Quatitation.

Table 2 (Page 2 of 2)
Groundwater Sample Results for Sulfate as SO4
DB Oak Facility, Fort Atkinson, Wisconsin

Well Location	May 2009*	Sep. 2009	Dec. 2009	Mar. 2010	June 2010	Sep. 2010	Dec. 2010	Mar. 2011	June 2011**	Sep. 2011	Dec. 2011	Mar. 2012	June 2012	Sep. 2012	Dec. 2012	Mar. 2013	June 2013	Sep. 2013	Dec. 2013	Mar. 2014	June 2014	Sep. 2014	Dec. 2014	Mar. 2015	Sep. 2015	Mar. 2016
IW-01	<5.0>	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	18	<2.5	<2.5	<2.5	--	<2.5	--	--	--	<2.5	--	<2.5	--	--	--	<2.5	<2.5	<2.5
TW-01	40	47	<2.5	<2.5	<2.5	<2.5	<4.7>	9.8	<2.5	<2.5	8.7	9.0	--	<3.4>	--	21	--	<2.5	--	12	--	22	--	22	33	60
TW-02	19	<2.5	5.1	<4.3>	<2.5	<2.5	<4.7>	11	<2.5	<2.5	<4.4>	43	--	<2.8>	<3.0>	19	<3.9>	<3.6>	72	14	12	5.9	17	18	34	14
TW-03	48	44	24	<3.6>	<3.7>	<4.9>	--	<3.1>	<5.0>	<3.6>	<2.5	<3.0>	--	14	<3.3>	21	23	25	22	22	22	30	28	33	43	33
MW-2	35	30	34	44	40	29	27	34	38	46	62	68	69	86	93	83	42	43	55	59	39	57	64	69	77	54
MW-2A	38	64	75	86	59	65	74	87	66	63	80	88	110	120	100	95	70	62	75	76	96	75	77	75	88	110
MW-2B	81	74	74	65	66	62	57	52	64	69	67	65	--	59	--	63	--	59	--	59	--	65	--	64	72	68
MW-3	60	<2.5	<2.5	<2.5	<2.5	2,300	<2.5	<2.5	<2.5	<2.5	<2.5	<3.4>	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	86	9.5	84	9.8	<3.5>	60	21
MW-3A	66	57	58	57	57	57	57	58	14	33	17	<4.0>	20	<3.7>	32	30	32	30	31	35	37	38	34	34	35	36
MW-3B	74	66	69	66	65	67	64	62	48	50	44	30	37	40	44	52	52	49	47	46	54	52	53	53	58	56
MW-3C	12	<3.6>	<2.5	<2.5	<3.0>	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	--	<2.5	--	--	--	<2.5	--	<2.5	--	<2.5	--	<2.5	<2.5	<2.5
MW-4	51	<4.1>	<3.9>	13	<2.5	<2.9>	8.8	15	<2.5	<2.5	<3.4>	<2.5>	6.4	<2.7>	<2.5	<2.5		5.1	8.0	9.1	<2.5	8.9	11	17	<2.7>	46
MW-4A	52	60	54	51	50	51	51	53	57	60	59	55	59	58	--	65	--	52	--	58	38	54	--	51	54	<3.2>
MW-4B	110	61	49	<2.5	<2.5	<2.5	<2.5	40	67	65	64	50	--	51	--	62	--	62	--	73	--	78	--	58	--	--
MW-7	33	8.1	7.5	21	--	--	--	--	--	--	--	--	--	9.8	--	14	--	18	--	18	--	15	--	7.2	11	11
MW-7A	48	48	42	41	29	27	30	34	41	35	34	27	26	24	25	28	33	30	30	34	--	36	34	33	41	41
MW-7B	68	57	68	68	64	73	71	57	63	63	57	76		72	--	62	--	61	--	76	--	69	--	76	83	65
MW-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	69	100	59
MW-9A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	60	62	61

* Samples for TW-01, TW-02, and TW-03 were collected on June 1, 2009.
 All units reported in mg/L.
 All detected constituents are shown in bold.
 < - Detected below Limit of Detection
 < > Detected above Limit of Detection, but below Limit of Quatitation.

Table 3
June 2015 VOC Groundwater Sample Results
DB Oak Facility, Fort Atkinson, Wisconsin

Constituent	PAL	ES	TW-02	TW-03	MW-2	MW-2A	MW- 2A DUP#1	MW-3	MW-3A	MW-3B	MW-4	MW-7A	MW-9	MW-9A
Benzene	0.5	5	<3.8	<22	<38	<34	<38	<0.423>	<340	<54	<68	<2.7	<22	<6.8
Chlorobenzene	20	100	<3.8	<21	<38	<32	<38	<0.506>	<320	<52	<65	<2.6	<21	<6.5
Chloroethane	80	400	<12	<120	<120	<180	<120	<1.5	<330	<300	<370	<15	<120	<37
cis-1,2-Dichloroethene (c-DCE)	7	70	160	428	1,800	3,630	2,000	1.63	14,700	1,160	6,010	187	2,300	358
trans-1,2-Dichloroethene (t-DCE)	20	100	<3.5	<22	<35	<34	<35	<0.27	<340	<54	<67	<2.7	<25.4>	<6.7
Ethylbenzene	140	700	<3.5	<33	<35	<53	<35	<0.822>	<510	<82	<100	<4.1	<33	<10
Isopropylbenzene	--	--	<3.8	<23	<38	<36	<38	<0.325>	<360	<58	<73	<2.9	<23	<7.3
Methylene Chloride	0.5	5	15	<19	180	<29	150	<0.23	<290	<46	<58	<2.3	<19	<5.8
Tetrachloroethene (PCE)	0.5	5	<12>	<36.8>	<72>	135	<44	<0.411>	<330	3,380	<66	70.8	<37.7>	<6.6
Toluene	160	800	<4.0	<22	<40	<34	<40	<0.417>	<340	<54	<67	<2.7	<22	<6.7
Trichloroethene (TCE)	0.5	5	19	<20.6>	120	<71>	<33	<0.362>	<230	1,440	<46	32	<15	<4.6
1,2,4-Trimethylbenzene	--	--	<3.3	<22	<33	<35	<33	<0.28	<350	<56	<70	<2.8	<22	<7.0
1,3,5-Trimethylbenzene	--	--	<4.1	<7.4	<41	<12	<41	<0.096>	<120	<18	<23	<0.92	<7.4	<2.3
Total Trimethylbenzene	96	480	<3.3	<7.4	<33	<12	<33	<0.096>	<120	<18	<23	<0.92	<7.4	<2.3
o-Xylene	--	--	<3.4	<25	<34	<39	<34	1.73	<390	<63	<79	<3.2	<25	<7.9
m,p-Xylene	--	--	<7.9	<11	<79	<35	<33	2.98	<170	<28	<35	<1.4	<11	<3.5
Total Xylene	400	2,000	<3.4	<11	<34	<12	<41	4.71	<170	<28	<35	<1.4	<11	<3.5
Vinyl Chloride (VC)	0.02	0.2	30	488	<39	53.9	1,700	<0.483>	2,360	218	4,560	<2.0	85.6	<16.8>
Total VOCs			236	975.4	2,172	3,890	3,850	9.702	17,060	6,198	10,570	289.8	2,448.7	374.8

PAL Preventive Action Limit per Wisconsin Admin. Code sec. NR 141.10.
ES Enforcement Standard per Wisconsin Admin. Code sec. NR 141.10.

All units reported in µg/L.
All detected constituents are shown in bold
Concentrations exceeding the PAL are in red italics.
Concentrations exceeding the ES are shaded.
< - Detected below Limit of Detection.
<> Detected above Limit of Detection, but below Limit of Quatitation

Table 4 (Page 1 of 2)
June 2015 VOC Groundwater Sample Results – Geoprobe Borings
DB Oak Facility, Fort Atkinson, Wisconsin

Constituent	PAL	ES	GP-100 15 ft.	GP-101 14 ft.	GP-102 35 ft.	GP-103 15 ft.	GP-103 35 ft.	GP-104 14 ft.	GP-105 15 ft.	GP-106 15 ft.	GP-106 35 ft.	GP-107 20 ft.	GP-Dup#1 G-107 20 ft.	GP-107 35 ft.
Benzene	0.5	5	<0.29	<7.2>	<0.29	<0.29	<0.29	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Bromoform			<0.25	<5.0	<0.25	<0.25	<0.33>	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
n-Butylbenzene			<0.20	<4.0>	<0.20	<0.20	<0.20	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Chlorobenzene	20	100	<0.19	<25	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Chloroethane	80	400	<1.2	<5.1	<1.2	<1.2	<1.2	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59
1,1-Dichloroethane			<0.25	<4.9	<0.25	<0.25	<0.25	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
1,1-Dichloroethene			<0.25	<5.0	<0.25	<0.25	<0.25	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
cis-1,2-Dichloroethene (c-DCE)	7	70	<0.30	<9.7>	<0.53>	60	<0.39>	16	<0.22	<0.22	<0.22	0.90	0.97	<0.22
trans-1,2-Dichloroethene (t-DCE)	20	100	<0.25	<5.0	<0.25	1.8	<0.25	<0.30>	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Ethylbenzene	140	700	<0.25>	<4.7	<0.22	<0.22	<0.22	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Isopropylbenzene	--	--	<0.24	<4.8	<0.24	<0.24	<0.24	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Methylene Chloride	0.5	5	<0.25	<5.1	<0.25	<0.25	<0.25	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Naphthalene	10	100	<0.34	<17>	<0.34	<0.34	<0.34	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
n-Propylbenzene			<0.27	21	<0.27	<0.27	<0.27	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Tetrachloroethene (PCE)	0.5	5	<0.21	<4.3	<0.23>	<0.21	<0.21	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
Toluene	160	800	<0.20>	<3.8	<0.29>	<0.44>	<0.20>	<0.42>	<0.29>	<0.24>	<0.44>	<0.22	<0.22	<0.22
Trichloroethene (TCE)	0.5	5	<0.31	<6.1	<0.31	<0.93>	<0.31	3.2	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
1,2,4-Trimethylbenzene	--	--	<0.52>	130	<0.21	<0.21	<0.21	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
1,3,5-Trimethylbenzene	--	--	<0.26	44	<0.26	<0.26	<0.26	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Total Trimethylbenzene	96	480	<0.52>	174	<0.21	<0.21	<0.21	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
o-Xylene	--	--	<0.26	<7.5>	<0.26	<0.26	<0.26	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
m,p-Xylene	--	--	<0.42	<26>	<0.42	<0.42	<0.42	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Total Xylene	400	2,000	<0.26	33.5	<0.26	<0.26	<0.26	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Vinyl Chloride (VC)	0.02	0.2	7.5	44	<0.16	2.5	<0.16	0.95	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

PAL Preventive Action Limit per Wisconsin Admin. Code sec. NR 141.10.
ES Enforcement Standard per Wisconsin Admin. Code sec. NR 141.10.

All units reported in µg/L.
All detected constituents are shown in bold
Concentrations exceeding the PAL are in red italics.
Concentrations exceeding the ES are shaded.
< - Detected below Limit of Detection.
<> Detected above Limit of Detection, but below Limit of Quatitation

Table 4 (Page 2 of 2)
June 2015 VOC Groundwater Sample Results – Geoprobe Borings
DB Oak Facility, Fort Atkinson, Wisconsin

Constituent	PAL	ES	GP-108 18 ft.	GP-108 35 ft.	GP-109 18 ft.	GP-110 20 ft.	GP-111 17 ft.	GP-111 35 ft.	GP-112 35 ft.	GP-113 15 ft.	GP-113 35 ft.	GP-Dup#2 G-113 35 ft.	GP-114 15 ft.	GP-114 35 ft.
Benzene	0.5	5	<0.19	<0.19	<0.19	<i>0.75</i>	<0.29	<i>3.3</i>	<0.29	<0.29	<0.29	<0.19	<0.29	<0.19
Bromoform			<0.17	<0.17	<0.17	<0.17	<0.25	<0.25	<0.25	<0.25	<0.25	<0.17	<0.25	<0.17
n-Butylbenzene			<0.28	<0.28	<0.28	<0.28	<0.20	<0.20	<0.20	<0.20	<0.20	<0.28	<0.20	<0.28
Chlorobenzene	20	100	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Chloroethane	80	400	<0.59	<0.59	<0.59	<0.59	<1.2	<1.2	<1.2	<1.2	<1.2	<0.59	<1.2	<0.59
1,1-Dichloroethane			<0.21	<0.21	<0.21	<0.21	<0.25	<0.36>	<0.25	<0.25	<0.25	<0.21	<0.25	<0.21
1,1-Dichloroethene			<0.15	<0.15	<0.15	<0.15	<0.25	0.98	<0.25	<0.25	<0.25	<0.15	<0.25	<0.15
cis-1,2-Dichloroethene (c-DCE)	7	70	<0.22	<0.22	<0.22	<0.22	3.8	180	<0.30	<0.30	<0.30	<0.22	<0.30	<0.22
trans-1,2-Dichloroethene (t-DCE)	20	100	<0.18	<0.18	<0.18	<0.18	<0.25	4.8	<0.25	<0.25	<0.25	<0.18	<0.25	<0.18
Ethylbenzene	140	700	<0.17	<0.17	<0.17	<0.17	<0.22	<0.27>	<0.22	<0.22	<0.22	<0.17	<0.22	<0.17
Isopropylbenzene	--	--	<0.19	<0.19	<0.19	<0.19	<0.24	<0.24	<0.24	<0.24	<0.24	<0.19	<0.24	<0.19
Methylene Chloride	0.5	5	<0.18	<0.18	<0.18	<0.18	<0.25	<0.25	<0.25	<0.42>	<0.25	<0.18	<0.25	<0.18
Naphthalene	10	100	<0.27	<0.27	<0.27	<0.28>	<0.34	<0.34	<0.40>	<0.34	<0.34	<0.27	<0.34	<0.27
n-Propylbenzene			<0.18	<0.18	<0.18	<0.18	<0.27	<0.27	<0.27	<0.27	<0.27	<0.18	<0.27	<0.18
Tetrachloroethene (PCE)	0.5	5	<0.22	<0.22	<0.22	<0.22	<0.21	<0.21	<0.21	<0.21	<0.21	<0.22	<0.21	<0.22
Toluene	160	800	<0.22	<0.22	<0.22	2.5	<0.39>	0.74	<0.35>	<0.18	<0.18	<0.22	<0.23>	<0.22
Trichloroethene (TCE)	0.5	5	<0.17	<0.17	<0.17	<0.17	<0.31	<0.31	<0.31	<0.31	<0.31	<0.17	<0.31	<0.17
1,2,4-Trimethylbenzene	--	--	<0.17	<0.17	<0.17	<0.28>	<0.21	<0.21	<0.21	<0.21	<0.21	<0.17	<0.21	<0.17
1,3,5-Trimethylbenzene	--	--	<0.21	<0.21	<0.21	<0.21	<0.26	<0.26	<0.26	<0.26	<0.26	<0.21	<0.26	<0.21
Total Trimethylbenzene	96	480	<0.17	<0.17	<0.17	<0.28>	<0.21	<0.21	<0.21	<0.21	<0.21	<0.17	<0.21	<0.17
o-Xylene	--	--	<0.17	<0.17	<0.17	<0.32>	<0.26	<0.26	<0.26	<0.26	<0.26	<0.17	<0.26	<0.17
m,p-Xylene	--	--	<0.40	<0.40	<0.40	<0.60>	<0.42	<0.42	<0.42	<0.42	<0.42	<0.40	<0.42	<0.40
Total Xylene	400	2,000	<0.17	<0.17	<0.17	0.92	<0.26	<0.26	<0.26	<0.26	<0.26	<0.17	<0.26	<0.17
Vinyl Chloride (VC)	0.02	0.2	<0.20	<0.20	<0.20	<0.20	<0.27>	18	<0.16	<0.16	<0.16	<0.20	<0.16	<0.20

PAL Preventive Action Limit per Wisconsin Admin. Code sec. NR 141.10.
ES Enforcement Standard per Wisconsin Admin. Code sec. NR 141.10.

All units reported in µg/L.
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Concentrations exceeding the ES are shaded.
< - Detected below Limit of Detection.
<> Detected above Limit of Detection, but below Limit of Quatitation

**Table 5 (Page 1 of 2)
September 2015 VOC Groundwater Sample Results
DB Oak Facility, Fort Atkinson, Wisconsin**

Constituent	PAL	ES	TW-01	TW-02	TW-02 DUP#2	TW-03	IW-01	MW-2	MW-2A	MW-2B	MW-3	MW-3A	MW-3B	MW-3C
Chlorobenzene	20	100	<0.19	<7.7	<9.6	<15	<0.19	<38	<38	<0.19	<0.32>	<240	<39	<0.19
cis-1,2-Dichloroethene (c-DCE)	7	70	<0.35>	470	460	1,300	<0.30	2,400	2,000	5.6	1.1	13,000	980	1.4
trans-1,2-Dichloroethene (t-DCE)	20	100	<0.18	<15>	<14>	<14	<0.25	<35	<35	<0.18	<0.34>	<310	<50	<0.25
Ethylbenzene	140	700	<0.17	<7.0	<8.7	<14	<0.22	<35	<35	<0.17	<0.51>	<280	<44	<0.22
Isopropylbenzene	--	--	<0.19	<7.5	<9.4	<15	<0.24	<38	<38	<0.19	<0.22>	<300	<48	<0.24
Tetrachloroethene (PCE)	0.5	5	<0.22	60	51	<17	<0.21	170	<44	13	<0.22	<270	2,600	<0.21
Toluene	160	800	<0.20	<14>	<10	<27>	<0.18	<40	<40	<0.20	<0.20	<250>	<45>	<0.32>
Trichloroethene (TCE)	0.5	5	<0.17	39	35	<13	<0.31	370	<33	7.8	<0.17	<380	1,300	<0.31
1,2,4-Trimethylbenzene	--	--	<0.17	<6.7	<8.4	<13	<0.21	<33	<33	<0.17	<0.19>	<260	<41	<0.21
1,3,5-Trimethylbenzene	--	--	<0.21	<8.2	<10	<16	<0.26	<41	<41	<0.21	<0.21	<330	<51	<0.26
Total Trimethylbenzene	96	480	<0.17	<6.7	<8.4	<13	<0.21	<33	<33	<0.17	<0.19>	<260	<41	<0.21
o-Xylene	--	--	<0.17	<6.9	<8.6	<14	<0.26	<34	<34	<0.17	<0.41>	<320	<51	<0.26
m,p-Xylene	--	--	<0.40	<16	<20	<32	<0.42	<79	<79	<0.40	<0.61>	<520	<83	<0.42
Total Xylene	400	2,000	<0.17	<6.9	<8.6	<14	<0.26	<34	<34	<0.17	<1.02>	<320	<51	<0.26
Vinyl Chloride (VC)	0.02	0.2	0.86	130	130	1,000	1.4	<39	<47>	<0.20	1.7	2,500	230	<0.18>
Total VOCs			1.21	728	690	2,327	1.4	2,940	2,047	26.40	5.4	15,750	5,155	1.9

PAL Preventive Action Limit per Wisconsin Admin. Code sec. NR 141.10.
ES Enforcement Standard per Wisconsin Admin. Code sec. NR 141.10.

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Table 5 (Page 2 of 2)
September 2015 VOC Groundwater Sample Results
DB Oak Facility, Fort Atkinson, Wisconsin

Constituent	PAL	ES	MW-4	MW-4A	MW-7	MW-7A	MW-7B	MW-9	MW-9 DUP#1	MW-9A
Chlorobenzene	20	100	<97	<0.19	<0.19	<1.9	<0.19	<38	<48	<4.8
cis-1,2-Dichloroethene (c-DCE)	7	70	9,700	<0.64>	<0.30	160	<0.77>	3,400	4,100	290
trans-1,2-Dichloroethene (t-DCE)	20	100	<130	<0.25	<0.25	<2.5	<0.18	<35	<44	<4.4
Ethylbenzene	140	700	<110	<0.22	<0.22	<2.2	<0.17	<35	<47	<4.4
Isopropylbenzene	--	--	<120	<0.24	<0.24	<2.4	<0.19	<38	<47	<4.7
Tetrachloroethene (PCE)	0.5	5	<110	<0.34>	<0.30>	71	6.4	<44	<55	<5.5
Toluene	160	800	<110>	<0.18	<0.18	<2.4>	<0.20	<61>	<50	<7.5>
Trichloroethene (TCE)	0.5	5	<510>	<0.40>	<0.31	45	1.5	<33	<42	<4.2
1,2,4-Trimethylbenzene	--	--	<100	<0.21	<0.21	<2.1	<0.17	<33	<42	<4.2
1,3,5-Trimethylbenzene	--	--	<130	<0.26	<0.26	<2.6	<0.21	<41	<51	<5.1
Total Trimethylbenzene	96	480	<100	<0.21	<0.21	<2.1	<0.17	<33	<42	<4.2
o-Xylene	--	--	<130	<0.26	<0.26	<2.6	<0.17	<34	<43	<4.3
m,p-Xylene	--	--	<210	<0.42	<0.42	<4.2	<0.40	<79	<99	<9.9
Total Xylene	400	2,000	<130	<0.26	<0.27	<2.6	<0.17	<34	<43	<4.3
Vinyl Chloride (VC)	0.02	0.2	8,000	<0.16	<0.16	<1.6	<0.23>	230	280	<4.9
Total VOCs			18,320	1.38	0.30	278.40	8.90	3,691	4,380	297.50

PAL Preventive Action Limit per Wisconsin Admin. Code sec. NR 141.10.
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Concentrations exceeding the ES are shaded.
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Table 6
December 2015 VOC Groundwater Sample Results
DB Oak Facility, Fort Atkinson, Wisconsin

Constituent	PAL	ES	TW-02	TW- 02 DUP#1	TW-03	MW-2	MW-2A	MW-3	MW-3A	MW-3B	MW-4	MW-7A	MW-9	MW-9A
cis-1,2-Dichloroethene (c-DCE)	7	70	550	540	600	1,600	2,200	3.3	12,000	900	3,600	180	2,100	480
trans-1,2-Dichloroethene (t-DCE)	20	100	<10	<25>	<25	<50	<50	<0.38>	<310	<50	<130	<3.1	<63	<6.3
Ethylbenzene	140	700	<8.9	<8.9	<22	<44	<44	<0.23>	<280	<44	<110	<2.8	<56	<5.6
Tetrachloroethene (PCE)	0.5	5	230	220	<41>	150	<43	<0.21	<270	3,000	<110	120	<53	<5.3
1,1,2-Trichloroethane	0.5	5	<9.5	<9.5	<24	<48	<48	<0.30>	<300	<48	<120	<3.0	<60	<6.0
Trichloroethene (TCE)	0.5	5	150	180	<31	280	<61	1.3	<380	1,400	<150	65	<76	<7.6
Vinyl Chloride (VC)	0.02	0.2	160	160	950	<31	<100>	4.8	2,300	220	5,100	<2.0	<75>	<7.7>
Total VOCs			1,090	1,125.00	1,591	2,030	2,300	10.31	14,300	5,520	8,700	365.0	2,175	487.7

PAL Preventive Action Limit per Wisconsin Admin. Code sec. NR 141.10.
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Table 7 (Page 1 of 2)
March 2016 VOC Groundwater Sample Results
DB Oak Facility, Fort Atkinson, Wisconsin

Constituent	PAL	ES	TW-01	TW-02	TW-02 DUP#1	TW-03	IW-01	MW-2	MW-2A	MW-2B	MW-3	MW-3A	MW-3B	MW-3C
Benzene	0.5	5	<0.24	<9.5	<9.7	<12	<0.19	<39	<39	<0.19	<0.27>	<240	<49	<0.24
cis-1,2-Dichloroethene (c-DCE)	7	70	1.4	540	540	1,100	<0.18	1,700	2,500	13	3.0	16,000	1,100	1.4
trans-1,2-Dichloroethene (t-DCE)	20	100	<0.19>	26	<22>	<8.7>	<0.15	<29	<29	<0.22>	<0.30>	<180	<36	<0.17
Tetrachloroethene (PCE)	0.5	5	0.88	220	240	<37>	<0.17	120	<33	16	<0.17	<210	3,400	<0.22
Toluene	160	800	<0.21	<8.3	<9.6	<10	<0.19	<38	<38	<0.19	<0.19	<240	<48	<0.52>
Trichloroethene (TCE)	0.5	5	2.0	170	150	<26>	<0.24	170	<47	8.1	<0.24	<300	1,300	<0.32
o-Xylene	--	--	<0.19	<7.4	<7.9	<9.3	<0.16	<31	<31	<0.16	<0.16>	<200	<39	<0.19
m,p-Xylene	--	--	<0.37	<15	<16	<19	<0.32	<64	<64	<0.32	<0.49>	<400	<80	<0.37
Total Xylene	400	2,000	<0.19	<7.4	<7.9	<9.3	<0.16	<31	<31	<0.16	0.65	<200	<39	<0.19
Vinyl Chloride (VC)	0.02	0.2	0.69	190	170	1,200	1.6	<32	<98>	<0.16	12	2,800	<300	<0.20>
Total VOCs			5.16	1,146	1,122	2,371.7	1.6	1,990	2,598	37.32	15.95	18,800	5,800	2.12

PAL Preventive Action Limit per Wisconsin Admin. Code sec. NR 141.10.
ES Enforcement Standard per Wisconsin Admin. Code sec. NR 141.10.

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Table 7 (Page 2 of 2)
March 2016 VOC Groundwater Sample Results
DB Oak Facility, Fort Atkinson, Wisconsin

Constituent	PAL	ES	MW-4	MW-4A	MW-7	MW-7A	MW-7B	MW-9	MW-9A	MW-10	MW-10A	MW-11	MW-12	MW-12A	MW-12 DUP#2	
Benzene	0.5	5	<120	<0.24	<0.24	<2.1	<0.24	<48	<9.5	<0.24	<0.24	<0.24	<0.24	<39	<39	
cis-1,2-Dichloroethene (c-DCE)	7	70	3,700	2.1	<0.24	180	8.4	1,700	320	<0.24	<0.24	<0.24	20	2,400	2,100	
trans-1,2-Dichloroethene (t-DCE)	20	100	<85	<0.17	<0.17	<12.5	<0.25>	<34	<6.8	<0.17	<0.17	<0.17	<0.17	<29	<29	
Tetrachloroethene (PCE)	0.5	5	<110	<0.33>	<0.22	100	8.5	<44	<8.8	<0.22	<0.22	<0.22	<0.22	<33	<33	
Toluene	160	800	<100	<0.21	<0.21	<2.6	<0.21	<42	<8.3	<0.21	<0.21	<0.21	<0.21	<38	<38	
Trichloroethene (TCE)	0.5	5	<160	<0.32	<0.32	55	5.1	<65	<13	<0.32	<0.32	<0.33>	<0.32	<47	<47	
o-Xylene	--	--	<93	<0.19	<0.19	<2.3	<0.19	<37	<7.4	<0.19	<0.19	<0.19	<0.19	<31	<31	
m,p-Xylene	--	--	<190	<0.37	<0.37	<4.6	<0.37	<74	<15	<0.37	<0.37	<0.37	<0.37	<64	<64	
Total Xylene	400	2,000	<93	<0.19	<0.19	<2.3	<0.19	<37	<15	<0.19	<0.19	<0.19	<0.19	<31	<31	
Vinyl Chloride (VC)	0.02	0.2	5,600	<0.17	<0.17	<2.1	<0.52>	<73>	<6.8	<0.17	<0.17	<0.17	<0.17	<0.35>	290	250
Total VOCs			9,300	2.43	0.00	335.0	22.77	1,773	320.0	0.00	0.00	0.33	20.82	2,690	2,350	

PAL Preventive Action Limit per Wisconsin Admin. Code sec. NR 141.10.
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Table 8
Surface Water Sample Results
DB Oak Facility, Fort Atkinson, Wisconsin

Constituent	Storm Sewer North of SP-01	Outfall at SP-01	Surface Water South of SP-01
December 2014			
cis-1,2-Dichloroethene (c-DCE)	--	110	--
Tetrachloroethene (PCE)	--	310	--
Trichloroethene (TCE)	--	85	--
Vinyl Chloride (VC)	--	<11>	--
March 2015			
cis-1,2-Dichloroethene (c-DCE)	38	38	36
Tetrachloroethene (PCE)	150	150	140
Trichloroethene (TCE)	38	45	30
Vinyl Chloride (VC)	<4.2>	<4.2>	<2.5>
June 2015			
cis-1,2-Dichloroethene (c-DCE)	187	100	113
Tetrachloroethene (PCE)	339	83.5	141
Trichloroethene (TCE)	110	59.2	36.2
Vinyl Chloride (VC)	52.1	9.9	<5.0>
September 2015			
cis-1,2-Dichloroethene (c-DCE)	250	18	--
Tetrachloroethene (PCE)	630	9.4	--
Trichloroethene (TCE)	170	3.1	--
Vinyl Chloride (VC)	39	1.5	--
December 2015			
cis-1,2-Dichloroethene (c-DCE)	87	59	49
Tetrachloroethene (PCE)	190	140	120
Trichloroethene (TCE)	48	31	30
Vinyl Chloride (VC)	15	11	8.7
March 2015			
cis-1,2-Dichloroethene (c-DCE)	100	95	54
Tetrachloroethene (PCE)	180	330	110
Trichloroethene (TCE)	53	54	24
Vinyl Chloride (VC)	7.7	10	<5.8>

All units reported in µg/L.

All detected constituents are shown in bold

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<> Detected above Limit of Detection, but below Limit of Quatitation

**Table 9
Sediment Sample Results
DB Oak Facility, Fort Atkinson, Wisconsin**

Location	SED-1	SED-1	SED-2	SED-2	SED-3	SED-3	SED-4	SED-4	SED-5	SED-5	SED-6	SED-6	
Depth (feet)	0.5 - 1.0	2.0 - 4.0	0.5 - 2.0	2.0 - 4.0	0.5 - 2.0	2.0 - 4.0	0.5 - 2.0	2.0 - 4.0	0.5 - 2.0	2.0 - 4.0	0.5 - 2.0	2.0 - 4.0	
Sample Date	7-Oct-15	8-Apr-16	23-Mar-16	23-Mar-16	23-Mar-16	23-Mar-16	23-Mar-16	23-Mar-16	8-Apr-16	8-Apr-16	8-Apr-16	8-Apr-16	
Distance from Outfall (feet)	0	0	5	5	15	15	25	25	45	45	65	65	
Constituent													
Chlorobenzene	<61>	<22	1,500	Refusal - No Sample Collected	220	<22	<110	<22	<22	<22	<22	<22	
1,2-Dichlorobenzene	<53>	<19	2,500		700	<19	<97	<19	<19	<19	<19	<19	<52>
1,1-Dichloroethene	<60>	<21	<210		<42	<21	<110	<21	<21	<21	<21	<21	<21
cis-1,2-Dichloroethene	18,000	<20	8,300		540	<20	1,500	<35>	170	<20	<20	<20	<20
trans-1,2-Dichloroethene	290	<19	<190		<38	<19	<96	<19	<19	<19	<19	<19	<19
Ethylbenzene	180	<27	1,100		200	<27	<140	<27	<27	<27	<27	<27	<27
Isopropylbenzene	<31	<20	<200		<76>	<20	<99	<20	<20	<20	<20	<20	<20
p-Isopropyltoluene	<73>	<18	<180		<76>	<18	<92	<18	<18	<18	<18	<18	<18
Methylene chloride	<64>	<19	<190		<37	<19	<83	<19	<19	<19	<19	<19	<19
Naphthalene	<99>	<37	<370		<75	<37	<190	<37	<37	<37	<37	<37	<37
n-Propylbenzene	<88>	<20	<200		<39	<20	<98	<20	<20	<20	<20	<20	<20
Tetrachloroethene	96,000	120	28,000		5,700	<50>	27,000	460	790	<20	540	<33>	
Toluene	210	<19	1,000		<37	<19	<94	<19	<19	<19	<19	<19	<19
1,1,2-Trichloroethane	<28	<22	<220		<44	150	<110	<22	<22	<22	<22	100	<22
Trichloroethene	14,000	<29	2,600		570	<29	4,400	<29	<72>	<29	<29	<29	<29
Trichlorofluoromethane	450	<16	<160		<32	<16	<80	<16	<16	<16	<16	<16	<16
1,2,4-trimethylbenzene	210	<16	<610>		190	<16	<120	<23	<23	<23	<23	<23	<23
1,3,5-trimethylbenzene	<75>	<22	<220		<43	<22	<110	<22	<22	<22	<22	<22	<22
Vinyl chloride	1,200	<17	<410>		<34	<17	<86	<17	<56>	<17	<17	<17	<17
o-Xylene	180	<19	1,300		230	<19	<93	<19	<19	<19	<19	<19	<19
meta, para-Xylene	490	<39	2,900	580	<39	<200	<39	<39	<39	<39	<39	<39	
Percent Solids	61.2	89.1	61.7	61.6	88.3	76.3	86.3	57.3	83.9	61.7	84.1		

All units reported in µg/kg.

Table 10 (Page 1 of 5)
Historic Groundwater Sample Results – Volatile Organic Compounds (VOCs) at the DB Oak Facility, Fort Atkinson, Wisconsin

Date	TW-01	TW-02	TW-03	IW-01	MW-1	MW-2	MW-2A	MW-2B	MW-3	MW-3A	MW-3B	MW-3C	MW-4	MW-4A	MW-4B	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-7B	MW-8	MW-8A	MW-8B	MW-9	MW-9A	
<i>cis-1,2-Dichloroethene PAL = 7 µg/l ES = 70 µg/l</i>																											
12/16/2004	--	--	--	--	0.14	5,900	380	--	6,800	--	--	--	<66	0.89	--	0.21	--	--	--	--	--	--	--	--	--	--	--
6/1/2005	--	--	--	--	<0.40	3,800	350	--	2,600	13,000	--	--	<200	<0.40	--	<0.40	<0.40	<0.40	--	--	--	--	--	--	--	--	--
3/28/2006	--	--	--	--	<0.19	6,400	3,800	--	3,500	12,000	600	--	<190	0.29	--	<0.19	<0.19	<0.34	0.89	270	--	--	--	--	--	--	--
11/2/2006	--	--	--	--	--	--	--	--	3,000	14,000	400	--	--	--	--	--	--	--	<0.83	290	--	--	--	--	--	--	
10/25/2007	--	--	--	--	<0.50	1,800	1,800	19	5,800	11,000	330	110	42	<0.50	--	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
4/21/2008	--	--	--	--	<0.50	560	2,100	19	2,100	16,000	530	49	600	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	--	--
5/26/2009	5,900	6,000	14	8.8	<0.20	260	660	1.4	2,800	18,000	480	37	<40	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<1.6	<0.16	<0.16	<0.16	<0.16	<0.16	--	--
9/22/2009	5,000	3,300	5.5	2.7	--	630	920	1.8	27,000	20,000	1,000	0.35	5,200	0.36	1.1	--	--	--	<0.16	<1.3	<0.16	--	--	--	--	--	--
12/2/2009	1,900	4,100	220	2	--	510	1,700	2.2	68,000	18,000	1,000	<0.41	1,600	0.2	2.5	--	--	--	<0.16	0.50	0.49	--	--	--	--	--	--
3/23/2010	3.0	3,700	450	1.7	<0.12	1,000	1,900	4.6	80,000	15,000	920	5.0	4,300	2.6	0.29	<0.12	<0.12	<0.12	<0.12	5.0	0.20	<0.12	<0.12	0.24	--	--	--
6/22/2010	10.0	4,000	340	1.8	--	950	1,600	1.6	<2,500>	16,000	860	11	3,600	0.79	<0.39>	--	--	--	--	<1.6	<0.20	--	--	--	--	--	--
9/15/2010	7.8	<250	<3.1	<0.13	--	<5.0	<13	<0.13	<630	<160	<170	<0.13	<15	<0.13	<0.13	<0.13	--	--	<0.13	<0.50	<0.13	<0.13	<0.13	<0.13	<0.13	--	--
12/14/2010	11	2,400	--	1.2	--	390	2,100	15	<510	17,000	740	6.1	990	<0.2	2.4	--	--	--	--	<1.0	<0.20	--	--	--	--	--	--
3/9/2011	6.7	1,500	62	1.0	--	530	1,700	14	<970>	14,000	<670>	6.4	3,100	2.6	7.3	<0.20	--	--	<0.20	<1.1>	<0.20	<0.20	<0.20	<0.20	<0.37>	--	--
6/28/2011	1.1	2,100	580	0.82	--	570	1,600	16	<200	8,500	1,800	5.3	7,200	0.70	1.9	--	--	--	--	1.3	<0.21	--	--	--	--	--	--
9/20/2011	<0.44>	1,900	110	<0.49>	--	710	1,200	15	<100	14,000	4,900	6.9	9,200	1.9	0.92	<0.21	--	--	--	<1.1>	<0.21	<0.21	<0.33>	<0.20	--	--	--
12/5/2011	<0.53>	1,900	480	<0.43>	--	2,200	1,700	13	<100>	8,500	4,800	4.8	21,000	1.60	1.30	--	--	--	--	3.5	<0.20	--	--	--	--	--	--
3/6/2012	1.9	1,300	6.7	<0.29>	--	3,200	2,200	12	<470>	4,500	6,500	4.3	69,000	1.4	3.1	<0.20	--	--	<0.21	4.2	<0.66>	<0.21	<0.21	<0.23>	--	--	--
6/6/2012	--	1,400	770	--	--	3,200	2,200	--	<200	7,900	3,400	--	8,300	1.8	--	--	--	--	--	67	--	--	--	--	--	--	--
9/24/2012	1.1	1,200	180	0.54	--	3,900	1,800	16	<0.28>	3,200	2,200	4.1	5,800	1.5	<0.69>	--	--	--	22	74	<0.61>	--	--	--	--	--	--
12/5/2012	--	1,200	530	--	--	4,800	2,300	--	2	15,000	1,500	--	9,700	--	--	--	--	--	--	74	--	--	--	--	--	--	--
3/20/2013	<0.31>	680	400	<0.27>	<0.10	3,200	2,400	35	13	11,000	1,100	4.3	30,000	0.44	<0.33>	--	<0.10	<0.10	0.99	140	4.9	--	--	--	--	--	--
6/11/2013	--	1,000	90	--	--	870	1,500	--	<4.0	13,000	1,400	--	5,000	--	--	--	--	--	--	96	--	--	--	--	--	--	--
9/16/2013	1.4	1,100	390	<0.31>	--	2,300	1,600	23	<1.3>	13,000	1,100	1.9	1,300	<0.30>	<0.10	--	--	--	<0.10	45	<0.10	--	--	--	--	--	--
12/4/2013	--	700	330	--	--	1,900	2,400	--	1.6	13,000	960	--	7.8	--	--	--	--	--	--	86	--	--	--	--	--	--	--
3/24/2014	0.54	770	390	<0.26>	--	1,800	630	39	1.9	14,000	900	5.5	6,500	<0.11>	<0.10	--	--	--	<0.10	160	<0.33>	--	--	--	--	--	--
6/23/2014	--	620	290	--	--	840	2,300	--	3.0	14,000	950	--	14,000	--	--	--	--	--	--	120	--	--	--	--	--	--	--
9/24/2014	0.36	660	320	<0.22>	--	1,300	1,500	7.3	1.1	12,000	1,100	1.5	7,400	<0.10	0.40	--	--	--	1.2	77	<0.10	--	--	--	--	--	--
12/22/2014	--	550	350	--	--	2,000	1,900	--	0.85	15,000	1,300	--	740	--	--	--	--	--	--	97	--	--	--	--	760	340	
3/10/2015	<0.30	440	370	<0.30	--	3,800	2,000	11	<0.81>	13,000	990	1.8	2,600	<0.30	<0.30	--	--	--	<0.30	92	<0.50>	--	--	--	980	300	
6/18/2015	--	160	428	--	--	1,800	3,630	--	1.63	14,700	1,160	--	6,010	--	--	--	--	--	--	187	--	--	--	--	2,300	358	
9/25/2015	<0.35>	470	1,300	<0.30	--	2,400	2,000	5.6	1.1	13,000	980	1.4	9,700	<0.64>	--	--	--	--	<0.30	160	<0.77>	--	--	--	3,400	290	
12/21/2015	--	550	600	--	--	1,600	2,200	--	3.3	12,000	900	--	3,600	--	--	--	--	--	--	180	--	--	--	--	2,100	480	
3/21/2016	1.4	540	1,100	<0.18	--	1,700	2,500	13	3.0	16,000	1,100	1.4	3,700	2.1	--	--	--	--	<0.24	180	8.4	--	--	--	1,700	320	

All units reported in µg/L.
 All detected constituents are shown in bold
 < - Detected below Limit of Detection.

PAL - Preventive Action Limit per Wisconsin Admin. Code sec. NR 141.10
 ES - Enforcement Standard per Wisconsin Admin. Code sec. NR 141.10
 <> Detected above Limit of Detection, but below Limit of Quantitation

Concentrations exceeding the PAL are in red italics.
 Concentrations exceeding the ES are shaded.
 -- No sample

Table 10 (Page 2 of 5)
Historic Groundwater Sample Results – Volatile Organic Compounds (VOCs) at the DB Oak Facility, Fort Atkinson, Wisconsin

Date	TW-01	TW-02	TW-03	IW-01	MW-1	MW-2	MW-2A	MW-2B	MW-3	MW-3A	MW-3B	MW-3C	MW-4	MW-4A	MW-4B	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-7B	MW-8	MW-8A	MW-8B	MW-9	MW-9A	
<i>trans-1,2- Dichloroethene PAL = 20 µg/l ES = 100 µg/l</i>																											
12/16/2004	--	--	--	<0.21	<0.11	32	<5.4	--	<540	--	--	--	<54	<0.11	--	<0.11	--	--	--	--	--	--	--	--	--	--	--
6/1/2005	--	--	--	--	<0.35	160	<8.7	--	<870	250	--	--	<170	<0.35	--	<0.35	<0.35	<0.35	--	--	--	--	--	--	--	--	--
3/28/2006	--	--	--	--	<0.17	<85	20	--	<420	190	<85	--	<170	<0.17	--	<0.17	<0.17	<0.21	<0.17	<10	--	--	--	--	--	--	--
11/2/2006	--	--	--	--	--	--	--	--	<220	<220	<110	--	--	--	--	--	--	--	<0.89	<8.9	--	--	--	--	--	--	
10/25/2007	--	--	--	--	<0.50	<25	<25	<0.50	<200	190	<100	1	<25	<0.50	--	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
4/21/2008	--	--	--	--	<0.50	<25	<25	<0.50	<130	<250	<100	<5	<500	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
5/26/2009	52	64	<5.2	<0.26	<0.26	<6.5	<13	<0.26	<51	250	<51	0.38	<52	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<2.1	<0.21	<0.21	<0.21	<0.21	<0.21	--	--
9/22/2009	140	63	<4.1	<0.26	--	<6.5	<13	<0.26	840	300	<210	<0.26	<52	<0.21	<0.21	--	--	--	<0.21	<1.6	<0.21	--	--	--	--	--	--
12/2/2009	89	62	<4.1	<0.21	--	<5.1	11	<0.21	2,000	<260	<160	<0.51	<21	<0.21	<0.21	--	--	--	<0.21	<0.21	<0.21	--	--	--	--	--	--
3/23/2010	0.93	<100	<13	<0.26	<0.13	7.6	16	<0.13	1,800	180	<100	<0.50	47	<0.26	<0.26	<0.13	<0.13	<0.13	<0.13	<0.63	<0.13	<0.13	<0.13	<0.13	<0.26	--	--
6/22/2010	1.20	<65	<6.5	<0.26	--	<10	<26	<0.26	<1,300	<330	<210	<1.0	<33	<0.26	<0.26	--	--	--	--	<2.1	<0.26	--	--	--	--	--	--
9/15/2010	13	3,600	290	0.99	--	360	730	0.63	<600	15,000	1,000	6.1	660	0.53	0.24	<0.12	--	--	<0.12	<0.48	<0.12	<0.12	0.68	<0.12	--	--	--
12/14/2010	< 0.33 >	<65	--	<0.26	--	<10	<26	<0.26	<650	<330	<260	<0.26	<33	<0.26	<0.26	--	--	--	--	<1.3	<0.26	--	--	--	--	--	--
3/9/2011	< 0.31 >	<33	<6.5	--	--	<10	<26	<0.26	<650	<330	<260	--	<26	<0.26	<0.26	--	--	--	--	--	--	--	--	--	--	--	--
6/28/2011	<0.19	37	5.5	<0.26	--	<10	<26	<0.26	<260	<330	<52	<0.26	69	<0.26	<0.26	--	--	--	--	<1.3	<0.19	--	--	--	--	--	--
9/20/2011	<0.26	<65	<6.5	<0.19	--	<7.7	<19	<0.19	<97	<330	<130	<0.26	< 57 >	<0.19	<0.19	<0.19	--	--	<0.48	<0.48	<0.19	<0.19	<0.26	<0.26	--	--	
12/5/2011	<0.26	<52	<21	<0.26	--	< 17 >	<26	<0.26	<130	<330	<130	<0.26	< 140 >	<0.26	<0.26	--	--	--	--	<1.0	<0.26	--	--	--	--	--	--
3/6/2012	<0.19	< 31 >	<0.19	<0.26	--	<52	<52	<0.26	<520	<150	<77	<0.19	< 650 >	<0.19	<0.19	<0.26	--	--	<0.19	<0.77	<0.19	<0.19	<0.19	<0.19	<0.19	--	--
6/6/2012	--	120	5.6	--	--	<65	<52	--	<260	<210	<130	--	<210	<0.19	--	--	--	--	--	<0.97	--	--	--	--	--	--	--
9/24/2012	<0.26	< 29 >	<4.8	<0.26	--	<48	<39	< 0.21 >	<0.19	< 50 >	<39	<0.19	<210	<0.26	<0.26	--	--	--	< 0.28 >	<1.3	<0.26	--	--	--	--	--	--
12/5/2012	--	< 32 >	<24	--	--	<77	<39	--	<0.19	<190	<39	--	<150	--	--	--	--	--	--	<0.97	--	--	--	--	--	--	--
3/20/2013	<0.32	<32	<25	<0.32	<0.32	<130	<63	< 0.37 >	62	<400	<40	<0.32	< 270 >	<0.32	<0.32	--	<0.32	<0.32	<0.32	<1.6	<0.32	--	--	--	--	--	--
6/11/2013	--	< 39 >	<0.18	--	--	<32	<63	--	<13	<400	<37	--	<250	--	--	--	--	--	--	<2.3	--	--	--	--	--	--	--
9/16/2013	<0.18	< 35 >	<15	<0.18	--	<74	<37	<0.74	<0.74	<230	<63	<0.32	<74	<0.32	<0.32	--	--	--	<0.32	<3.2	<0.32	--	--	--	--	--	--
12/4/2013	--	< 32 >	<32	--	--	<40	<63	--	<0.32	<400	<63	--	<1.3	--	--	--	--	--	--	<3.2	--	--	--	--	--	--	--
3/24/2014	<0.32	<32	<32	<0.32	--	<40	<16	<0.79	<0.32	<400	<63	<0.32	<500	< 0.32 >	<0.32	--	--	--	<0.32	<32	<0.32	--	--	--	--	--	--
6/23/2014	--	<32	<32	--	--	<16	<63	--	<0.17	<180	<63	--	<160	--	--	--	--	--	--	<3.2	--	--	--	--	--	--	--
9/24/2014	<0.32	<32	<32	<0.32	--	<16	<63	<0.32	<0.32	<400	<63	<0.32	<400	<0.32	<0.32	--	--	--	<0.32	<3.2	<0.32	--	--	--	--	--	--
12/22/2014	--	< 23 >	<16	--	--	<32	<32	--	<0.32	<320	<63	--	<22	--	--	--	--	--	--	<0.87	--	--	--	--	--	<17	<7.9
3/10/2015	<0.25	< 17 >	<20	<0.25	--	< 25 >	<31	<0.25	<0.25	<310	<50	<0.25	<63	<0.25	<0.25	--	--	--	<0.25	<2.0	<0.25	--	--	--	--	<20	<6.3
6/18/2015	--	<3.5	<22	--	--	<35	<34	--	<0.27	<340	<54	--	<67	--	--	--	--	--	--	<2.7	--	--	--	--	--	25.4	<6.7
9/25/2015	<0.18	< 15 >	<14	<0.25	--	<35	<35	<0.18	< 0.34 >	<310	<50	<0.25	<130	<0.25	--	--	--	--	<0.25	<2.5	<0.18	--	--	--	--	<35	<4.4
12/21/2015	--	<10	<25	--	--	<50	<50	--	< 0.38 >	<310	<50	--	<130	--	--	--	--	--	--	<3.1	--	--	--	--	--	<63	<6.3
3/21/2016	< 0.19 >	26	< 8.7 >	<0.15	--	<29	<29	< 0.22 >	< 0.30 >	<180	<36	<0.17	<85	<0.17	--	--	--	--	<0.17	<12.5	< 0.25 >	--	--	--	--	<34	<6.8

All units reported in µg/L.
 All detected constituents are shown in bold
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PAL - Preventive Action Limit per Wisconsin Admin. Code sec. NR 141.10
 ES - Enforcement Standard per Wisconsin Admin. Code sec. NR 141.10
 <> Detected above Limit of Detection, but below Limit of Quantitation

Concentrations exceeding the PAL are in red italics.
 Concentrations exceeding the ES are shaded.
 -- No sample

Table 10 (Page 3 of 5)
Historic Groundwater Sample Results – Volatile Organic Compounds (VOCs) at the DB Oak Facility, Fort Atkinson, Wisconsin

Date	TW-01	TW-02	TW-03	IW-01	MW-1	MW-2	MW-2A	MW-2B	MW-3	MW-3A	MW-3B	MW-3C	MW-4	MW-4A	MW-4B	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-7B	MW-8	MW-8A	MW-8B	MW-9	MW-9A	
<i>Trichlorethene (TCE) PAL = 0.5 µg/l ES = 5 µg/l</i>																											
12/16/2004	--	--	--	--	<0.12	140	69	--	17,000	--	--	--	10,000	23	--	<i>1.2</i>	--	--	--	--	--	--	--	--	--	--	--
6/1/2005	--	--	--	--	<0.25	160	83	--	5,500	2,300	--	--	4,700	<i>0.59</i>	--	<0.25	<0.25	<0.25	--	--	--	--	--	--	--	--	--
3/28/2006	--	--	--	--	0.4	450	700	--	7,200	2,900	2,800	--	38,000	<i>0.97</i>	--	<i>0.77</i>	0.35	<0.19	<i>2.9</i>	200	--	--	--	--	--	--	--
11/2/2006	--	--	--	--	--	--	--	--	5,100	1,900	1,800	--	--	--	--	--	--	--	<i>1.4</i>	180	--	--	--	--	--	--	--
10/25/2007	--	--	--	--	<0.50	520	530	6.2	3,300	1,500	1,200	<i>1.4</i>	1,500	8.5	--	<0.50	<0.50	<0.50	<i>0.63</i>	110	<i>0.87</i>	<0.50	<0.50	<0.50	--	--	
4/21/2008	--	--	--	--	<0.50	85	620	6.2	3,100	2,700	2,400	<5	43,000	<i>1.1</i>	--	<i>0.81</i>	<0.50	<0.50	<0.50	<0.50	<i>0.73</i>	<0.50	<0.50	<i>1.4</i>	--	--	
5/26/2009	350	440	200	<i>0.68</i>	<0.17	69	380	6.6	4,000	2,100	2,300	<i>2.5</i>	1,100	<i>1.6</i>	0.42	<0.17	<0.17	<0.17	<0.17	<i>3.9</i>	<0.37	<0.37	<0.37	<0.37	--	--	
9/22/2009	<74	750	130	<0.17	--	170	280	6.4	<84	1,100	1,900	0.22	44	<0.37	1.2	--	--	--	<0.37	<i>5.9</i>	0.39	--	--	--	--	--	--
12/2/2009	<46	710	130	0.43	--	230	280	5.9	<190	1,200	2,200	1.1	71	<0.37	1.1	--	--	--	<0.37	3.6	0.62	--	--	--	--	--	--
3/23/2010	<i>0.91</i>	640	77	<0.17	<0.16	360	180	6.7	<820	1,300	2,200	<0.65	17,000	<i>2.2</i>	0.25	<0.16	<0.16	<0.16	<0.16	6.4	<i>0.62</i>	<0.16	<0.16	<0.17	--	--	
6/22/2010	<0.18>	440	<7.2>	<0.23>	--	290	200	6.7	<840	1,400	1,900	<0.67	<21	<0.52>	<0.17	--	--	--	--	<2.1>	<0.35>	--	--	--	--	--	
9/15/2010	<0.16	560	7.7	<0.16	--	150	200	6.5	<820	1,400	2,400	0.31	<20	<i>0.56</i>	<0.16	0.47	--	--	<0.16	<i>2.1</i>	<i>0.78</i>	<0.16	<0.16	<0.16	--	--	
12/14/2010	0.61	790	--	<0.44>	--	200	190	6.3	<420	1,500	2,100	5.4	<21	<0.33>	<0.46>	--	--	--	--	<1.3>	<0.51>	--	--	--	--	--	
3/9/2011	5.6	450	<13>	<0.17	--	180	140	4.9	<420	1,500	1,900	<0.34>	6,300	<i>1.4</i>	<0.44>	<0.17	--	--	<0.17	<1.2>	<0.42>	<0.17	<0.17	<0.33>	--	--	
6/28/2011	<0.25	410	79	<0.17	--	200	160	<i>4.5</i>	<170	310	820	0.34	1,000	<i>0.65</i>	0.23	--	--	--	--	2	0.45	--	--	--	--	--	
9/20/2011	<0.20>	530	<4.2	<0.25	--	290	150	<i>3.9</i>	<120	<210	1,500	<i>0.94</i>	730	<i>1.7</i>	<0.25	<0.25	--	--	<0.25	<1.9>	<0.49>	<0.25	<i>0.60</i>	<0.17	--	--	
12/5/2011	<i>0.64</i>	470	<13	<0.17	--	500	110	<i>4.8</i>	<84	<210	710	<0.53>	2,000	<i>0.59</i>	<0.39>	--	--	--	--	<1.7>	<0.48>	--	--	--	--	--	
3/6/2012	<0.30>	490	<0.25	<0.17	--	340	<100>	5.5	<330	<200	<99	<0.25	1,900	<0.41>	<0.49>	<0.17	--	--	<0.25	<2.9>	<0.48>	<0.25	<0.25	<0.31>	--	--	
6/6/2012	--	1,200	15	--	--	300	<79>	--	<170	<130	550	--	<130	<0.51>	--	--	--	--	--	<3.5>	--	--	--	--	--	--	
9/24/2012	<0.34>	400	<6.2	<0.17	--	490	<85>	7.3	<0.25	<62	870	<0.25	<130	<i>0.61</i>	<0.17	--	--	--	<i>1.4</i>	6.4	<0.58>	--	--	--	--	--	
12/5/2012	--	360	<31	--	--	510	<87>	--	<0.25	<250	1,100	--	<200	--	--	--	--	--	--	6.9	--	--	--	--	--	--	
3/20/2013	<0.27	250	<31>	<0.34>	<0.27	500	<61>	11	<2.2	<340	1,100	<0.42>	5,900	<0.55>	<0.27	--	<0.27	<0.27	<0.34>	25	<i>1.3</i>	--	--	--	--	--	
6/11/2013	--	270	<20>	--	--	160	<130>	--	<11	<390>	1,200	--	<220	--	--	--	--	--	--	11.0	--	--	--	--	--	--	
9/16/2013	<0.14	220	<20>	<0.14	--	200	<91>	5.1	<0.57	<180	1,200	<0.17	<57	<0.32>	<0.17	--	--	--	<0.17	<4.9>	<i>3.5</i>	--	--	--	--	--	
12/4/2013	--	290	<27	--	--	400	<65>	--	<0.27	<340	1,000	--	<3.4	--	--	--	--	--	--	9.7	--	--	--	--	--	--	
3/24/2014	<0.74>	200	<51>	<0.27	--	190	<39>	11	<0.68>	<340	1,200	<i>1.9</i>	3,900	<0.46>	<0.27	--	--	--	<0.27	24	<i>1.6</i>	--	--	--	--	--	
6/23/2014	--	180	<40>	--	--	67	<200	--	<0.15	<190	1,100	--	<140	--	--	--	--	--	--	20	--	--	--	--	--	--	
9/24/2014	<0.27	180	<27	<0.27	--	360	<55	6.6	<0.56>	<340	1,100	<0.27	<340	<0.29>	<0.27	--	--	--	<0.64>	11	<0.40>	--	--	--	--	--	
12/22/2014	--	200	<14	--	--	270	<36>	--	<0.27	<270	1,500	--	<19	--	--	--	--	--	--	17	--	--	--	--	<15	<6.8	
3/10/2015	<0.31	160	<80>	<0.31	--	200	<49>	8.5	<0.31	<380	1,400	<0.31	<76	<0.31	<0.31	--	--	--	<0.31	19	<0.79>	--	--	--	<24	<7.6	
6/18/2015	--	19	<20.6>	--	--	120	<71>	--	<0.362>	<230	1,440	--	<46	--	--	--	--	--	--	32	--	--	--	--	<15	<4.6	
9/25/2015	<0.17	39	<13	<0.31	--	370	<33	7.8	<0.17	<380	1,300	<0.31	<510>	<0.40>	--	--	--	--	<0.31	45	<i>1.5</i>	--	--	--	<42	<4.2	
12/21/2015	--	150	<31	--	--	280	<61	--	<i>1.3</i>	<380	1,400	--	<150	--	--	--	--	--	--	65	--	--	--	--	<76	<7.6	
3/21/2016	<i>2.0</i>	170	<26>	<0.24	--	170	<47	8.1	<0.24	<300	1,300	<0.32	<160	<0.32	--	--	--	--	<0.32	55	5.1	--	--	--	<65	<13	

All units reported in µg/L.
 All detected constituents are shown in bold
 < - Detected below Limit of Detection.

PAL - Preventive Action Limit per Wisconsin Admin. Code sec. NR 141.10
 ES - Enforcement Standard per Wisconsin Admin. Code sec. NR 141.10
 <> Detected above Limit of Detection, but below Limit of Quantitation

Concentrations exceeding the PAL are in red italics.
 Concentrations exceeding the ES are shaded.
 -- No sample

Table 10 (Page 4 of 5)
Historic Groundwater Sample Results – Volatile Organic Compounds (VOCs) at the DB Oak Facility, Fort Atkinson, Wisconsin

Date	TW-01	TW-02	TW-03	IW-01	MW-1	MW-2	MW-2A	MW-2B	MW-3	MW-3A	MW-3B	MW-3C	MW-4	MW-4A	MW-4B	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-7B	MW-8	MW-8A	MW-8B	MW-9	MW-9A	
<i>Tetrachloroethene (PCE) PAL = 0.5 µg/l ES = 5 µg/l</i>																											
12/16/2004	--	--	--	--	<0.13	120	44	--	34,000	--	--	--	2,500	7.1	--	<i>2.3</i>	--	--	--	--	--	--	--	--	--	--	--
6/1/2005	--	--	--	--	<0.31	<150	110	--	27,000	3,000	--	--	2,500	<i>1.2</i>	--	<0.31	<0.31	<0.31	--	--	--	--	--	--	--	--	--
3/28/2006	--	--	--	--	<0.16	190	320	--	28,000	4,200	17,000	--	5,400	6.9	--	0.17	<0.16	<0.16	5.4	850	--	--	--	--	--	--	--
11/2/2006	--	--	--	--	--	--	--	--	22,000	1,700	9,700	--	--	--	--	--	--	--	<i>4.9</i>	560	--	--	--	--	--	--	
10/25/2007	--	--	--	--	<0.50	<25	360	15	10,000	2,100	5,300	<i>3.2</i>	2,000	<i>1.2</i>	--	<0.50	<0.50	<0.50	<i>3.5</i>	310	6.9	<0.50	<0.50	<0.50	--	--	
4/21/2008	--	--	--	--	<0.50	120	610	15	24,000	4,400	12,000	<5	14,000	<i>1.5</i>	--	<i>0.78</i>	<0.50	<0.50	<0.50	<i>0.67</i>	6.4	<0.50	<i>1.9</i>	4	--	--	
5/26/2009	3,000	320	210	<i>0.76</i>	<0.21	110	590	11	6,700	3,100	9,700	<i>1.9</i>	2,400	<i>3.8</i>	<i>1.1</i>	<0.21	<0.21	<0.21	0.34	94	8.6	<0.12	<0.12	<0.12	--	--	
9/22/2009	120	640	1,100	<0.21	--	270	530	9.2	<100	1,200	9,800	<i>0.68</i>	<41	<0.12	<i>3.6</i>	--	--	--	<i>0.85</i>	68	10	--	--	--	--	--	
12/2/2009	<15	460	590	0.12	--	320	390	9.8	<59	1,500	9,700	<0.30	110	<i>0.95</i>	<i>2.8</i>	--	--	--	<i>0.98</i>	83	11	--	--	--	--	--	
3/23/2010	<i>1.3</i>	530	92	<0.21	<0.18	470	250	13	<900	1,400	10,000	<0.72	5,000	<i>3.3</i>	<i>2.2</i>	<0.18	<0.18	<0.18	0.32	92	8.6	0.22	<i>1.1</i>	<i>2.0</i>	--	--	
6/22/2010	<0.41>	370	<10>	<0.54>	--	400	290	11	<1,000	2,400	1,600	<0.82	<26	<i>1.2</i>	<i>0.81</i>	--	--	--	--	82	8.1	--	--	--	--	--	
9/15/2010	<0.16	500	<4.5	<0.16	--	180	340	7.1	<900	1,300	10,000	<0.18	<23	1.1	<0.18	<0.18	--	--	0.48	44	8	<0.16	<0.16	<0.16	--	--	
12/14/2010	<0.54>	840	--	<0.44>	--	270	370	19	<520	1,500	11,000	34	<26	<0.38>	<i>2.5</i>	--	--	--	--	55	11	--	--	--	--	--	
3/9/2011	<i>3.0</i>	730	<7.8>	<0.43>	--	220	220	8.2	<520	1,500	9,600	<0.21	5,500	6.2	<i>1.5</i>	<0.21	--	--	<0.34>	60	8.4	<0.21	<0.21	<i>3.2</i>	--	--	
6/28/2011	<0.15	360	51	<0.21	--	210	240	8.2	<210	<260	830	<0.21	70	<i>0.67</i>	0.40	--	--	--	--	45	7.1	--	--	--	--	--	
9/20/2011	<0.29>	510	<5.2	<0.15	--	250	210	5.0	<73	<260	<320>	<0.44>	<18	<i>0.82</i>	<0.15	<0.15	--	--	<0.47>	43	6.6	<0.15	<0.21	<0.21	--	--	
12/5/2011	<0.21	550	<16	<0.21	--	<15>	170	6.9	<100	<260	<210>	<0.21	<100	<i>0.82</i>	<0.37>	--	--	--	--	50.0	5.50	--	--	--	--	--	
3/6/2012	<0.18>	810	<0.15	<0.21	--	450	<140>	6.8	<410	<120	<58	<0.15	<180	<i>0.66</i>	<i>1.4</i>	<0.21	--	--	<0.29>	59	<i>3.5</i>	<0.15	<0.15	<0.15	--	--	
6/6/2012	--	1,400	10	--	--	350	<88>	--	<210	<160	<110>	--	<160	<i>0.85</i>	--	--	--	--	--	54	--	--	--	--	--	--	
9/24/2012	<0.27>	420	<3.7	<0.21	--	530	110	6.7	<0.15	<37	840	<0.15	<160	<i>0.74</i>	<0.21	--	--	--	<i>0.80</i>	67	<i>3.1</i>	--	--	--	--	--	
12/5/2012	--	350	<18	--	--	<200>	<74>	--	<0.15	<150	1,800	--	<120	--	--	--	--	--	--	55	--	--	--	--	--	--	
3/20/2013	<0.22	480	<38>	<0.31>	<0.22	<270>	<66>	10	<1.7	<270	2,500	<0.35>	<150>	<0.68>	<0.22	--	<0.22	<0.30>	<0.42>	69	<i>3.1</i>	--	--	--	--	--	
6/11/2013	--	330	<13	--	--	140	<94>	--	<8.6	<270	2,700	--	<170	--	--	--	--	--	--	44	--	--	--	--	--	--	
9/16/2013	<0.19>	300	<24>	<0.19>	--	<74>	<62>	5.9	<0.65	<200	2,400	<0.22	<87>	<0.29>	<0.22	--	--	--	<0.27>	25	<0.56>	--	--	--	--	--	
12/4/2013	--	410	<28>	--	--	330	<65>	--	<0.22	<270	1,900	--	<2.7	--	--	--	--	--	--	47	--	--	--	--	--	--	
3/24/2014	<0.16	360	<26>	<0.16	--	140	<33>	7.7	<0.22	<400	2,200	<i>4.1</i>	<110	<0.16	<0.16	--	--	--	<0.16	60	<i>4.9</i>	--	--	--	--	--	
6/23/2014	--	230	<52>	--	--	96	<200	--	<0.14	<170	1,900	--	<110	--	--	--	--	--	--	49	--	--	--	--	--	--	
9/24/2014	<0.22	220	<22	<0.22	--	230	<43	9.6	<0.22	<270	2,100	<0.22	<270	<0.22	<0.31>	--	--	--	<i>2.3</i>	31	<i>3.8</i>	--	--	--	--	--	
12/22/2014	--	270	<16>	--	--	230	<42>	--	<0.22	<220	2,400	--	<17	--	--	--	--	--	--	49	--	--	--	--	<14	<5.4	
3/10/2015	<0.21	260	130	<0.21	--	200	<44>	13	<0.21	<270	2,800	<0.21	<53	<43	<i>0.78</i>	--	--	--	<0.29>	44	5.5	--	--	--	<17	<5.3	
6/18/2015	--	<12>	<36.8>	--	--	<72>	135	--	<0.411>	<330	3,380	--	<66	--	--	--	--	--	--	70.8	--	--	--	--	<37.7>	<6.6	
9/25/2015	<0.22	60	<17	<0.21	--	170	<44	13	<0.22	<270	2,600	<0.21	<110	<0.34>	--	--	--	--	<0.30>	71	6.4	--	--	--	<55	<5.5	
12/21/2015	--	230	<41>	--	--	150	<43	--	<0.21	<270	3,000	--	<110	--	--	--	--	--	--	120	--	--	--	--	<53	<5.3	
3/21/2016	<i>0.88</i>	220	<37>	<0.17	--	120	<33	16	<0.17	<210	3,400	<0.22	<110	<0.33>	--	--	--	--	<0.22	100	8.5	--	--	--	<44	<8.8	

All units reported in µg/L.
 All detected constituents are shown in bold
 < - Detected below Limit of Detection.

PAL - Preventive Action Limit per Wisconsin Admin. Code sec. NR 141.10
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 <> Detected above Limit of Detection, but below Limit of Quantitation

Concentrations exceeding the PAL are in red italics.
 Concentrations exceeding the ES are shaded.
 -- No sample

Table 10 (Page 5 of 5)
Historic Groundwater Sample Results – Volatile Organic Compounds (VOCs) at the DB Oak Facility, Fort Atkinson, Wisconsin

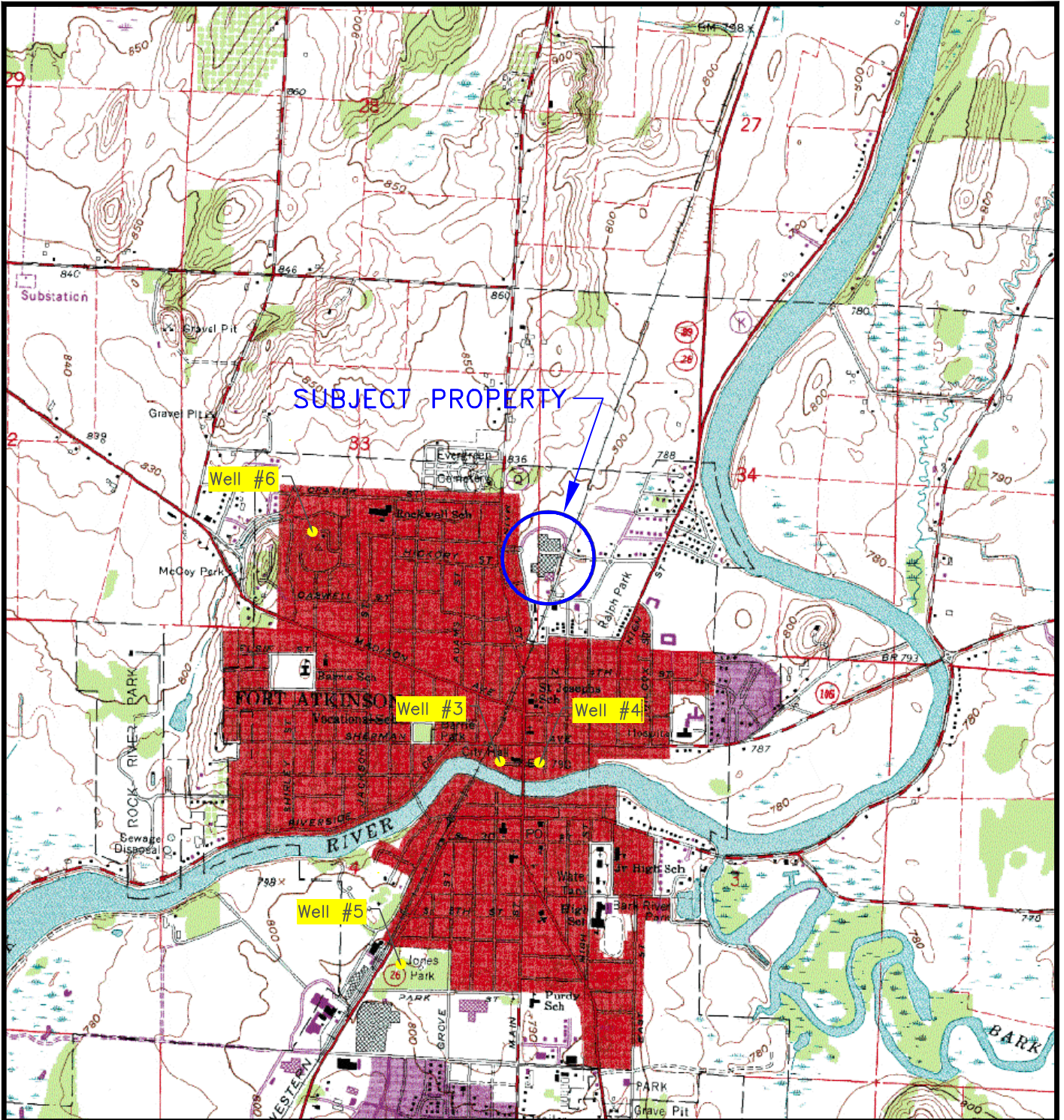
Date	TW-01	TW-02	TW-03	IW-01	MW-1	MW-2	MW-2A	MW-2B	MW-3	MW-3A	MW-3B	MW-3C	MW-4	MW-4A	MW-4B	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-7B	MW-8	MW-8A	MW-8B	MW-9	MW-9A	
<i>Vinyl Chloride PAL = 0.02 µg/l ES = 0.2 µg/l</i>																											
12/16/2004	--	--	--	--	<0.16	33	29	--	<820	--	--	--	<82	<0.16	--	<0.16	--	--	--	--	--	--	--	--	--	--	--
6/1/2005	--	--	--	--	<0.11	<53	36	--	<270	910	--	--	<53	<0.11	--	<0.11	<0.11	<0.11	--	--	--	--	--	--	--	--	--
3/28/2006	--	--	--	--	<0.2	<98	91	--	<490	740	<98	--	<200	<0.2	--	<0.2	<0.2	<0.17	<0.2	<8.3	--	--	--	--	--	--	--
11/2/2006	--	--	--	--	--	--	--	--	79	580	<22	--	--	--	--	--	--	--	<0.18	<1.8	--	--	--	--	--	--	
10/25/2007	--	--	--	--	<0.50	27	<25	<0.50	710	520	<100	2.8	<25	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	--	--
4/21/2008	--	--	--	--	<0.50	<25	<25	<0.50	<130	990	<100	<5	<500	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
5/26/2009	2,700	240	<3.7	5.5	<0.18	6.9	<9.2	<0.18	270	1,700	<42	0.57	<37	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<1.5	<0.17	<0.17	<0.17	<0.17	--	--
9/22/2009	1,300	410	<3.4	7.2	--	25	75	<0.18	12,000	2,300	210	<0.18	1,300	<0.17	<0.17	--	--	--	<0.17	<1.4	<0.17	--	--	--	--	--	--
12/2/2009	560	520	<3.4	7.8	--	6.5	56	<0.17	27,000	2,200	<140	<0.42	800	<0.57	<0.17	--	--	--	<0.17	<0.57	<0.17	--	--	--	--	--	--
3/23/2010	1.1	680	<9.2	9.3	<0.17	17	76	<0.17	31,000	1,600	<140	1.8	1,600	<0.18	<0.18	<0.17	<0.17	<0.17	<0.17	<0.87	<0.17	<0.17	<0.17	<0.17	<0.18	--	--
6/22/2010	1.6	1,100	58	7.6	--	<16>	<18	<0.18	52,000	1,700	<150	<1.7>	1,600	<0.18	<0.18	--	--	--	--	<1.5	<0.18	--	--	--	--	--	--
9/15/2010	56	1,000	130	6.9	--	<6.9	<17	<0.17	27,000	1,900	<140	0.85	970	<0.17	<0.17	<0.17	--	--	<0.17	<0.69	<0.17	<0.18	<0.18	<0.18	<0.18	--	--
12/14/2010	0.66	470	--	7.8	--	13	25	<0.18	26,000	1,700	<180	1.2	2,100	<0.18	<0.22>	--	--	--	--	<0.92	<0.18	--	--	--	--	--	--
3/9/2011	1.6	830	290	6.7	--	<7.4	<48>	<0.18	28,000	1,200	<180	0.71	1,400	<0.18	<0.18	<0.18	--	--	<0.18	<0.92	<0.18	<0.18	<0.18	<0.18	<0.18	--	--
6/28/2011	<0.15	590	460	4.8	--	10	<18	<0.18	13,000	1,200	130	0.95	7,200	<0.18	0.29	--	--	--	--	1.1	<0.15	--	--	--	--	--	--
9/20/2011	<0.18	500	650	2.6	--	<6.6>	<15	<0.15	4,400	4,000	<160>	0.79	3,200	<0.15	<0.15	<0.15	--	--	<0.15	<0.37	<0.15	<0.15	<0.18	<0.18	--	--	
12/5/2011	<0.18	550	560	2.1	--	65	<33>	<0.18	15,000	9,400	<190>	0.73	4,400	<0.18	<0.18	--	--	--	--	<0.74	<0.18	--	--	--	--	--	--
3/6/2012	0.84	260	13	1.8	--	<55>	<69>	<0.18	20,000	6,700	400	0.61	14,000	<0.15	<0.15	<0.18	--	--	<0.15	<0.60	<0.15	<0.15	<0.15	<0.15	<0.15	--	--
6/6/2012	--	1,800	1,100	--	--	<46	<73>	--	12,000	4,700	710	--	7,000	<0.15	--	--	--	--	--	<0.75	--	--	--	--	--	--	--
9/24/2012	<0.44>	290	290	1.8	--	<37	<66>	<0.15	2.1	2,800	690	0.66	6,800	<0.18	<0.18	--	--	--	<0.18	<0.92	<0.18	--	--	--	--	--	--
12/5/2012	--	280	1,100	--	--	<60	<67>	--	83	2,800	450	--	9,100	--	--	--	--	--	--	<0.75	--	--	--	--	--	--	--
3/20/2013	<0.17	150	750	1.5	<0.17	<66	<33	<0.17	5,200	2,800	250	1.1	13,000	<0.17	<0.17	--	<0.17	<0.17	<0.17	<0.83	0.79	--	--	--	--	--	--
6/11/2013	--	260	1,000	--	--	<17	<33	--	380	2,400	270	--	6,700	--	--	--	--	--	--	<1.9>	--	--	--	--	--	--	--
9/16/2013	<0.24>	280	970	1.8	--	<44	<32>	<0.44	<0.44	2,600	250	<0.17	5,200	<0.17	<0.17	--	--	--	<0.17	<1.7	<0.17	--	--	--	--	--	--
12/4/2013	--	110	720	--	--	<44	<54>	--	<0.57>	2,400	190	--	160	--	--	--	--	--	--	<1.7	--	--	--	--	--	--	--
3/24/2014	<0.17	200	760	1.5	--	<21	36	<0.42	6.6	2,200	170	0.66	3,000	<0.17	<0.17	--	--	--	<0.17	<1.7	<0.17	--	--	--	--	--	--
6/23/2014	--	210	680	--	--	<16>	<59>	--	8.9	2,200	220	--	12,000	--	--	--	--	--	--	<1.7	--	--	--	--	--	--	--
9/24/2014	<0.17	230	780	1.7	--	<14>	<33	<0.17	0.77	2,600	250	<0.19>	8,400	<0.17	<0.17	--	--	--	<0.17	<1.7	<0.17	--	--	--	--	--	--
12/22/2014	--	120	700	--	--	<24>	62	--	<0.54>	2,500	230	--	1,200	--	--	--	--	--	--	<0.84	--	--	--	--	<20>	<4.2	
3/10/2015	<0.16	99	750	1.4	--	<28>	<47>	<0.19>	<0.31>	2,500	210	<0.26>	1,700	<0.16	<0.16	--	--	--	<0.16	<1.2	<0.16	--	--	--	52	<3.9	
6/18/2015	--	30	488	--	--	<39	53.9	--	<0.483>	2,360	218	--	4,560	--	--	--	--	--	--	<2.0	--	--	--	--	85.6	<16.8>	
9/25/2015	0.86	130	1,000	1.4	--	<39	<47>	<0.20	1.7	2,500	230	<0.18>	8,000	<0.16	--	--	--	--	<0.16	<1.6	<0.23>	--	--	--	230	<4.9	
12/21/2015	--	160	950	--	--	<31	<100>	--	4.8	2,300	220	--	5,100	--	--	--	--	--	--	<2.0	--	--	--	--	<75>	<7.7>	
3/21/2016	0.69	190	1,200	1.6	--	<32	<98>	<0.16	12	2,800	<300	<0.20>	5,600	<0.17	--	--	--	--	<0.17	<2.1	<0.52>	--	--	--	<73>	<6.8	

All units reported in µg/L.
 All detected constituents are shown in bold
 < - Detected below Limit of Detection.

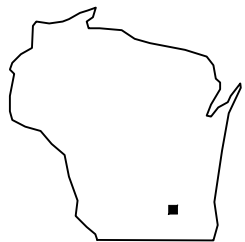
PAL - Preventive Action Limit per Wisconsin Admin. Code sec. NR 141.10
 ES - Enforcement Standard per Wisconsin Admin. Code sec. NR 141.10
 <> Detected above Limit of Detection, but below Limit of Quantitation

Concentrations exceeding the PAL are in red italics.
 Concentrations exceeding the ES are shaded.
 -- No sample

Figures



BASE MAP SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE, FORT ATKINSON, WISCONSIN, DATED 1987.



QUADRANGLE LOCATION

NORTH
SCALE: 1"=2400'

Former Thomas Industries
Fort Atkinson, Wisconsin

SITE LOCATION

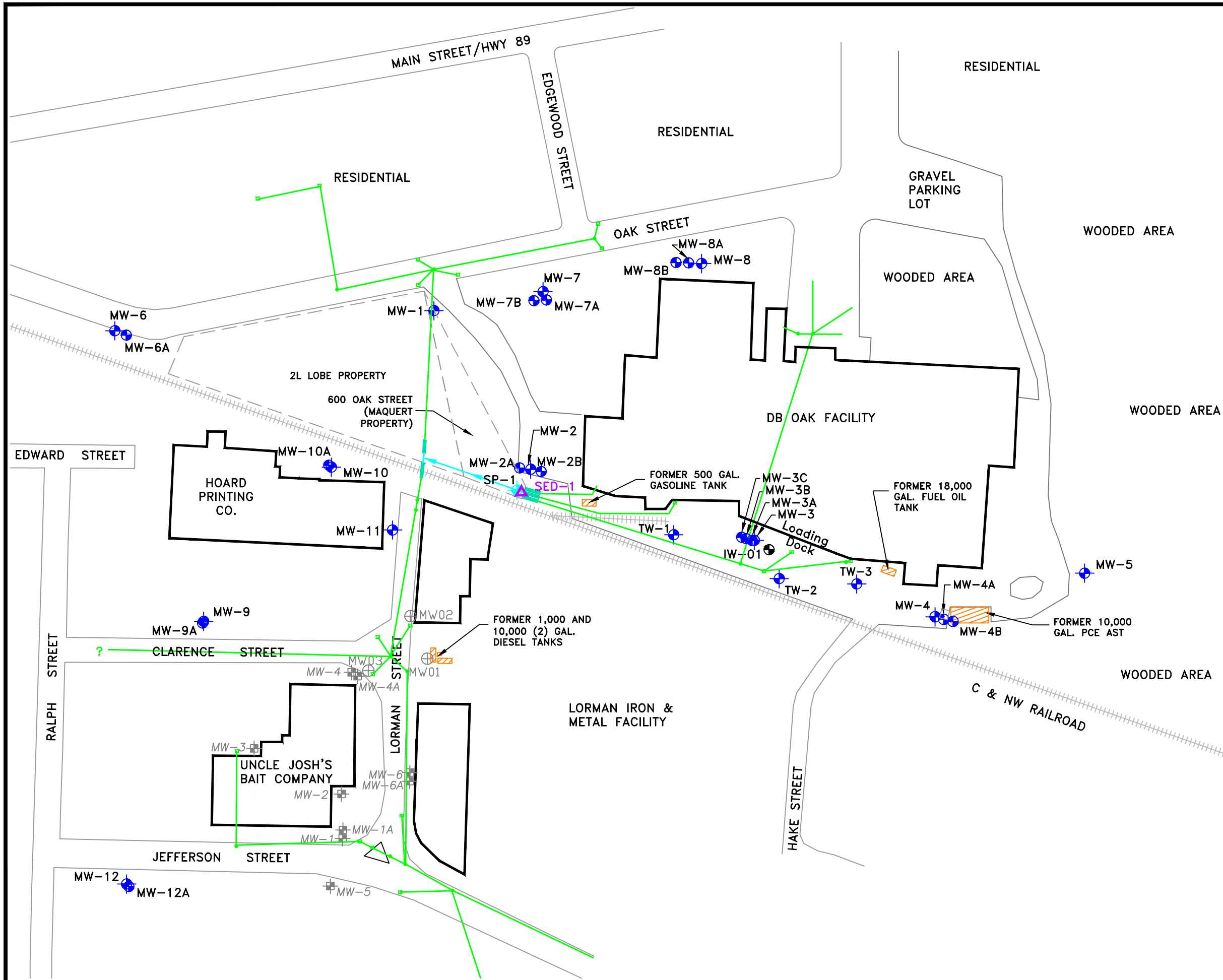
March 2013

42-1-37320-001











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Geotechnical and Environmental Consultants

FIGURE 1

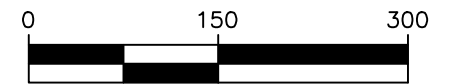
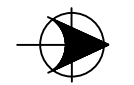
Filename: C:\PROJECTS\37320 GardnerDenver-DB OAKC-AD\SITE-2015-2016.dwg Tab: Figure 2 Date: 5/10/2016 Login: Dave Nemetz



LEGEND

-  SAND POINT WELL
-  MONITORING WELL
-  PIEZOMETER
-  ABANDONED MONITORING WELL (UNCLE JOSH'S BAIT COMPANY)
-  ABANDONED MONITORING WELL (LORMAN IRON & METAL)
-  FORMER TANKS
-  STORM SEWER (APPROXIMATE)
-  CULVERT
-  SURFACE DITCH/DIRECTION OF FLOW
-  SEDIMENT SAMPLE

NORTH



SCALE: 1" = 150'
SCALE IS APPROXIMATE

SOURCES:

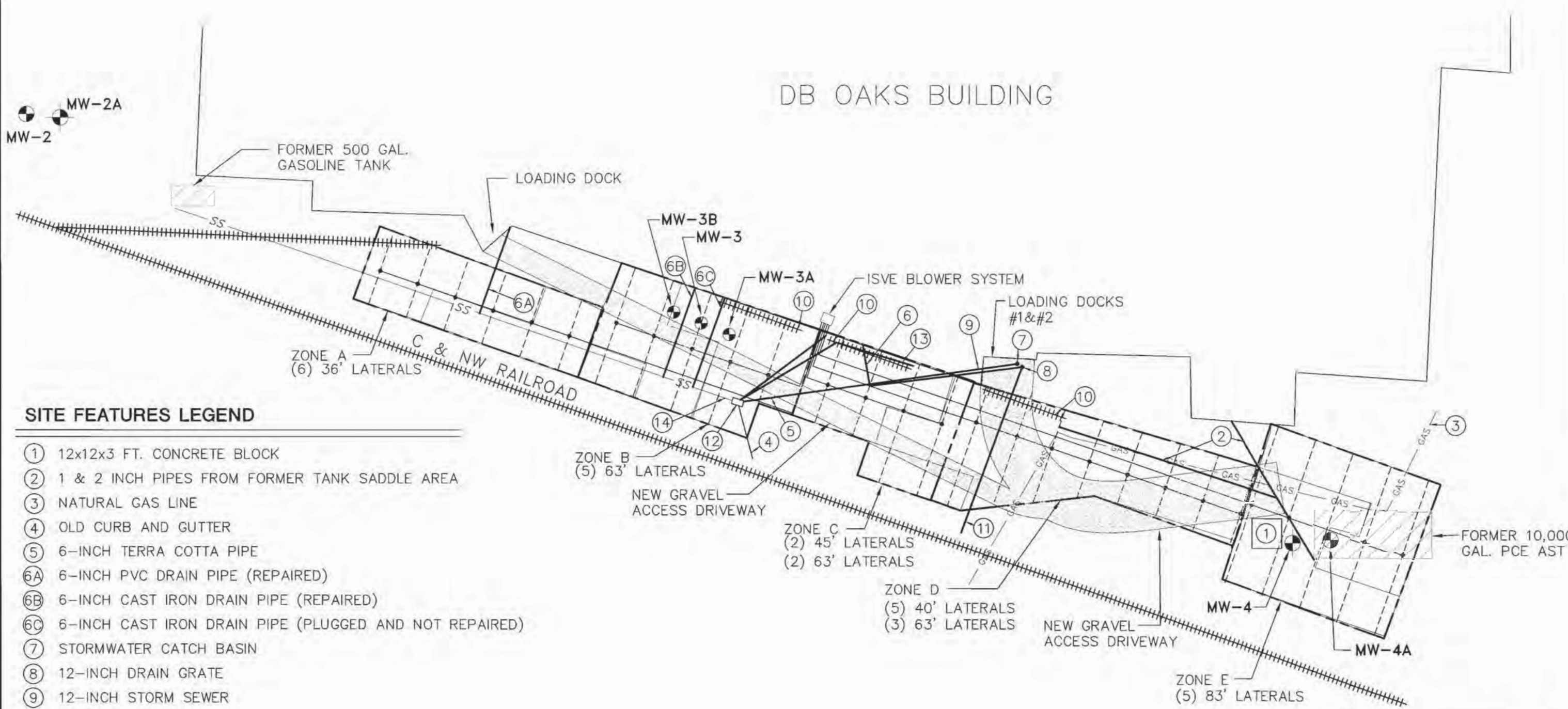
- ATEC, SITE PLAN AND GEOPROBE BORINGS, MARCH 30, 1995.
- AERIAL PHOTO, APRIL 21, 1996.
- AERIAL PHOTO, 2005.
- GOOGLE EARTH AERIAL PHOTO, SEPT. 2010

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 Phone (608) 442-5223

DRAWN: DDZ, DAN PROJECT 42-1-37320 APPROVED: MSM

FIGURE 2 SITE MAP

FORMER THOMAS INDUSTRIES
 700-710 OAK STREET, FORT ATKINSON, WISCONSIN



SITE FEATURES LEGEND

- ① 12x12x3 FT. CONCRETE BLOCK
- ② 1 & 2 INCH PIPES FROM FORMER TANK SADDLE AREA
- ③ NATURAL GAS LINE
- ④ OLD CURB AND GUTTER
- ⑤ 6-INCH TERRA COTTA PIPE
- ⑥A 6-INCH PVC DRAIN PIPE (REPAIRED)
- ⑥B 6-INCH CAST IRON DRAIN PIPE (REPAIRED)
- ⑥C 6-INCH CAST IRON DRAIN PIPE (PLUGGED AND NOT REPAIRED)
- ⑦ STORMWATER CATCH BASIN
- ⑧ 12-INCH DRAIN GRATE
- ⑨ 12-INCH STORM SEWER
- ⑩ RR SPUR TRACKS
- ⑪ 4-INCH STEEL PIPE
- ⑫ STORMWATER CATCH BASIN
- ⑬ 12" CONCRETE STORMWATER DRAIN

- SS STORM SEWER
- GAS GAS LINE
- RAILROAD TRACKS

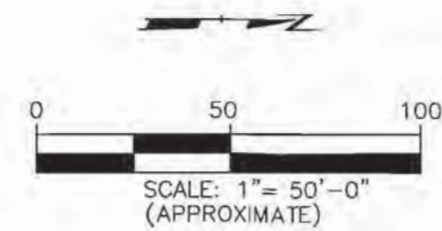
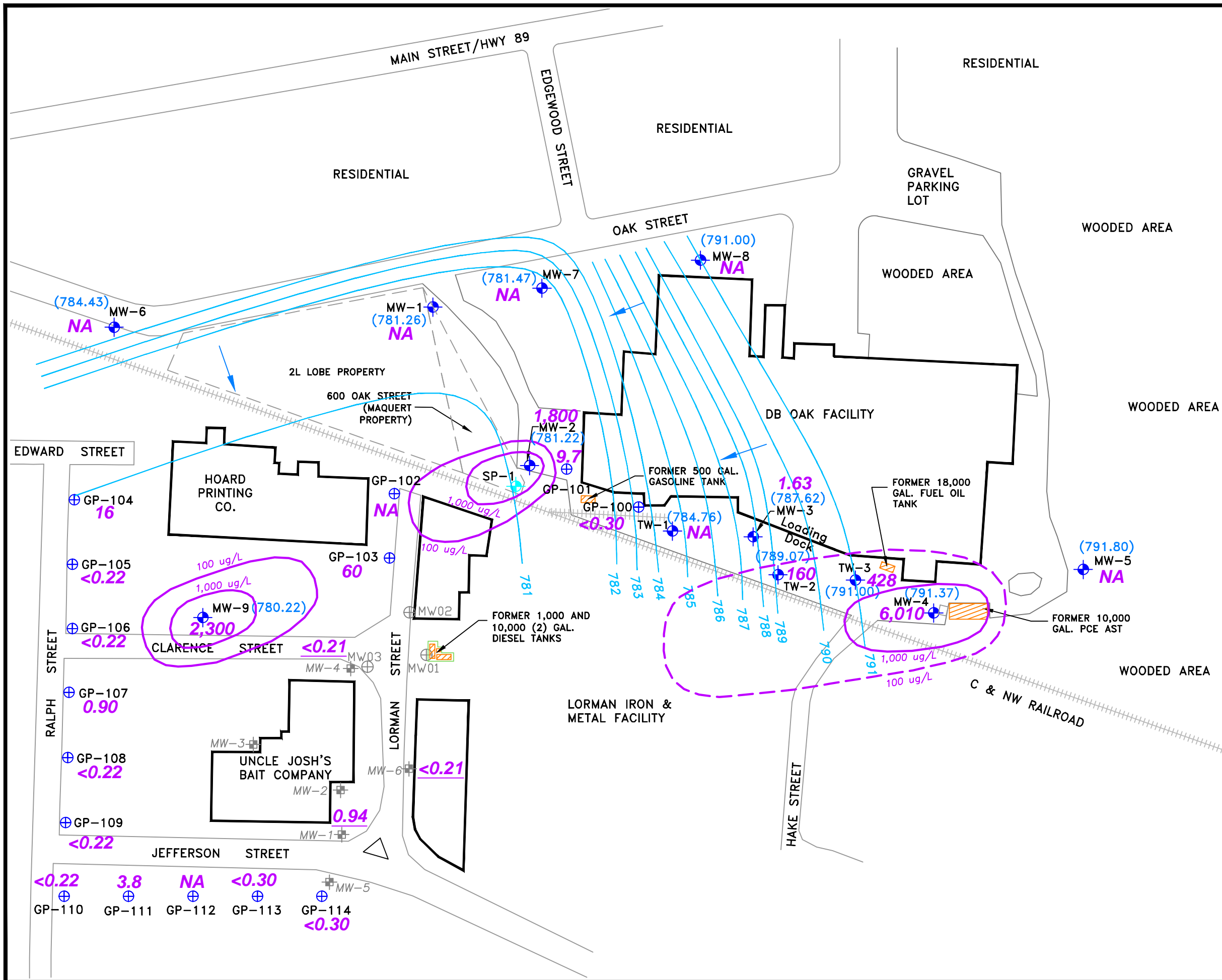


FIGURE 3 SVE Piping Map

PROJECT: DB OAKS FACILITY			
SHEET TITLE: SVE SYSTEM & NEW STORMSEWER PIPING LAYOUT			
DRAWN BY: TAF	SCALE:	PROJ. NO.:	07303.01
CHECKED BY: DSS	NONE	FILE NO.:	73030120.dwg
APPROVED BY: DWH	DATE PRINTED:		
DATE: MAY 2007			
RMT MAY 02 2007		744 Heartland Trail Madison, WI 53717-1934 P.O. Box 8923 53708-8923 Phone: 608-831-4444 Fax: 608-831-3334	

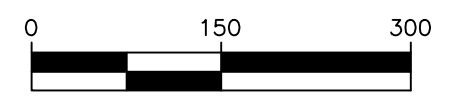
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 Date: 5/2/07
 Author: TAF
 Checker: DSS
 Approver: DWH
 Plot Date: 5/2/07
 Plot Time: 10:00 AM
 Plot Path: \\server\plotters\plotter1\

Filename: C:\projects\42-1-37320 GardnerDenver-DB OAK\CAD\SITE-2014-2015.dwg Tab: Fig 2 Date: 9/16/2015 Login: Dave Nemetz



LEGEND

- SAND POINT WELL
- EXISTING MONITORING WELL (Water Table)
- PROBE BORING (TEMPORARY SCREEN set at least 14' but no more than 20')
- ABANDONED MONITORING WELL (UNCLE JOSH'S BAIT COMPANY)
- ABANDONED MONITORING WELL (LORMAN IRON & METAL)
- FORMER TANKS
- FORMER EXCAVATION
- GROUNDWATER ELEVATION (MEASURED JUNE 18, 2015)
- GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER CIS-1,2-DCE in ug/L
NA = no analysis (Sampled June 16-18, 2015 except underlined values at UNCLE JOSH'S from June 2012)
- GROUNDWATER CIS-1,2-DCE CONTOUR (DASHED WHERE INFERRED)



SCALE: 1" = 150'
SCALE IS APPROXIMATE

SOURCES:

- ATEC, SITE PLAN AND GEOPROBE BORINGS, MARCH 30, 1995.
- AERIAL PHOTO, APRIL 21, 1996.
- AERIAL PHOTO, 2005.
- GOOGLE EARTH AERIAL PHOTO, SEPT. 2010

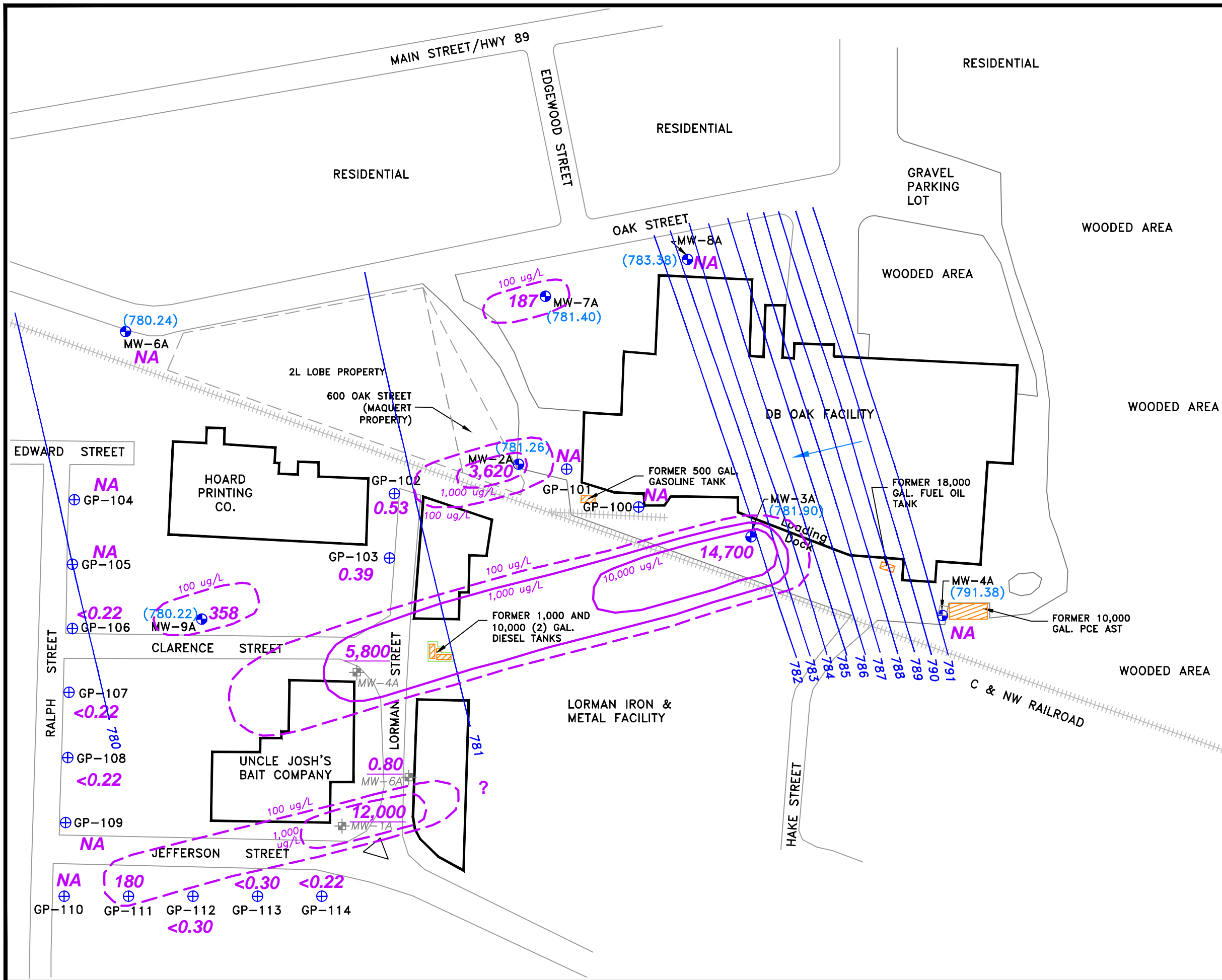
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DRAWN: DDZ, DAN PROJECT 42-1-37320 APPROVED: MSM

FIGURE 4
GROUNDWATER ELEVATIONS & CIS-1,2-DCE
SHALLOW WATER TABLE WELLS
(JUNE 2015)

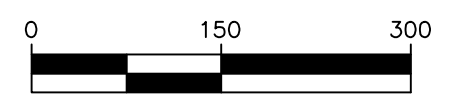
FORMER THOMAS INDUSTRIES
 700-710 OAK STREET, FORT ATKINSON, WISCONSIN

Filename: C:\projects\42-1-37320 GardnerDenver-DB OAK\CAD\SITE-2014-2015.dwg Tab: Fig 3 Date: 9/8/2015 Login: Dave Nemetz



LEGEND

- EXISTING PIEZOMETER
- PROBE BORING (TEMPORARY SCREEN set at 35')
- ABANDONED PIEZOMETER (UNCLE JOSH'S BAIT COMPANY)
- FORMER TANKS
- FORMER EXCAVATION
- GROUNDWATER ELEVATION (MEASURED JUNE 18, 2015)
- GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER CIS-1,2-DCE in ug/L
NA = no analysis (Sampled June 16-18, 2015 except underlined values at UNCLE JOSH'S from June 2012)
- GROUNDWATER CIS-1,2-DCE CONTOUR (DASHED WHERE INFERRED)



SCALE: 1" = 150'
SCALE IS APPROXIMATE

- SOURCES:
- ATEC, SITE PLAN AND GEOPROBE BORINGS, MARCH 30, 1995.
 - AERIAL PHOTO, APRIL 21, 1996.
 - AERIAL PHOTO, 2005.
 - GOOGLE EARTH AERIAL PHOTO, SEPT. 2010

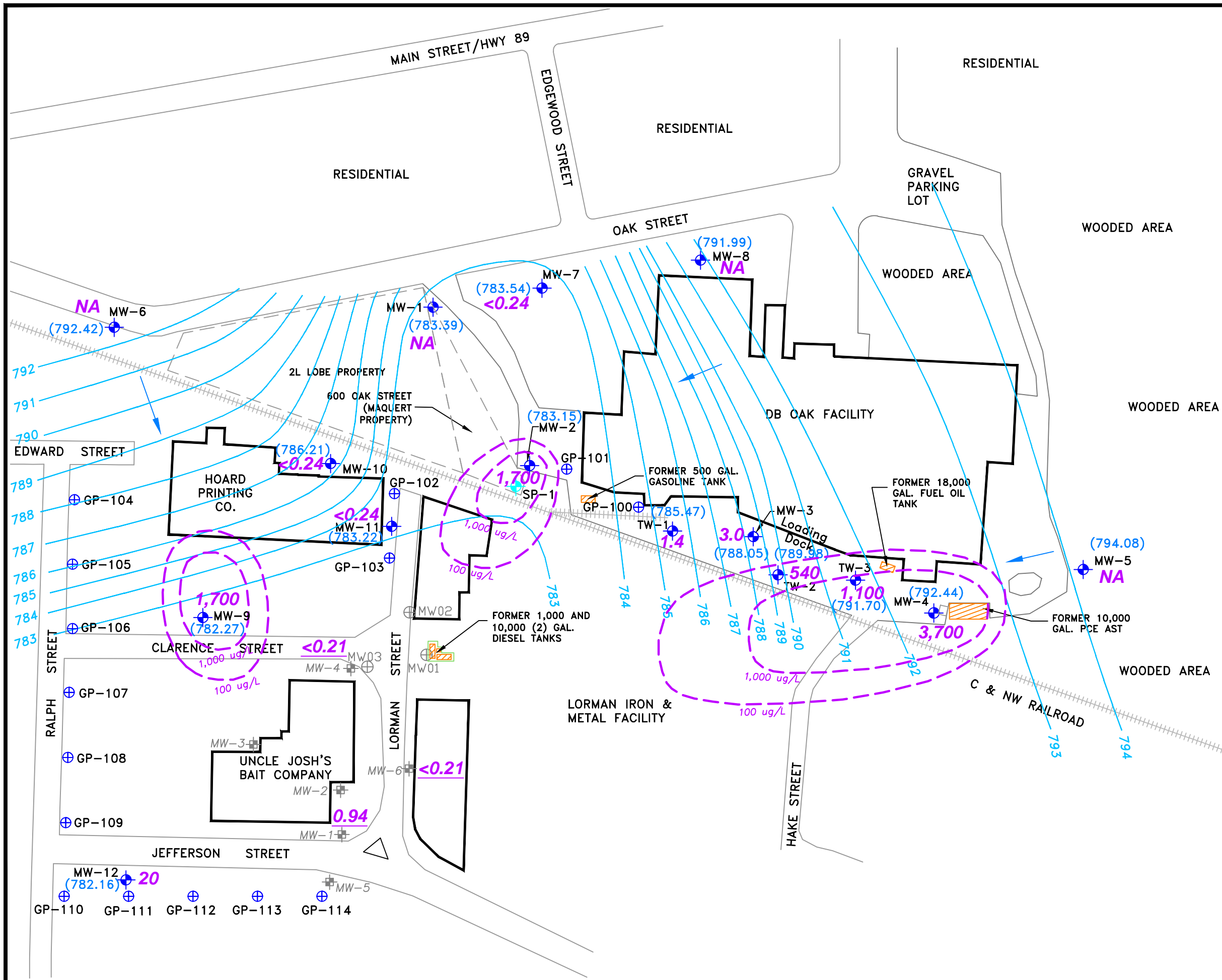
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DRAWN: DDZ, DAN PROJECT 42-1-37320 APPROVED: MSM

FIGURE 4A GROUNDWATER ELEVATIONS & CIS-1,2-DCE "A" HORIZON PIEZOMETERS (JUNE 2015)

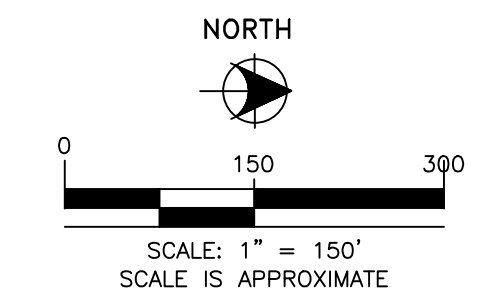
FORMER THOMAS INDUSTRIES
700-710 OAK STREET, FORT ATKINSON, WISCONSIN

Filename: C:\PROJECTS\37320 GardnerDenver-DB OAKC-AD\SITE-2015-2016.dwg Tab: Fig 5 Date: 5/13/2016 Login: Dave Nemetz



LEGEND

- SAND POINT WELL
- EXISTING MONITORING WELL (Water Table)
- 2015 PROBE BORING (Temporary screen set at least 14' but no more than 20')
- ABANDONED MONITORING WELL (UNCLE JOSH'S BAIT COMPANY)
- ABANDONED MONITORING WELL (LORMAN IRON & METAL)
- FORMER TANKS
- FORMER EXCAVATION
- GROUNDWATER ELEVATION (MEASURED APRIL 8, 2016)
- GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER CIS-1,2-DCE in ug/L (Sampled March 21-22 & 31, 2016 except underlined values at UNCLE JOSH'S from June 2012) NA = no analysis
- GROUNDWATER CIS-1,2-DCE CONTOUR (DASHED WHERE INFERRED)



SOURCES:
 ATEC, SITE PLAN, MARCH 30, 1995.
 AERIAL PHOTO, APRIL 21, 1996.
 AERIAL PHOTO, 2005.
 GOOGLE EARTH AERIAL PHOTO, SEPT. 2010

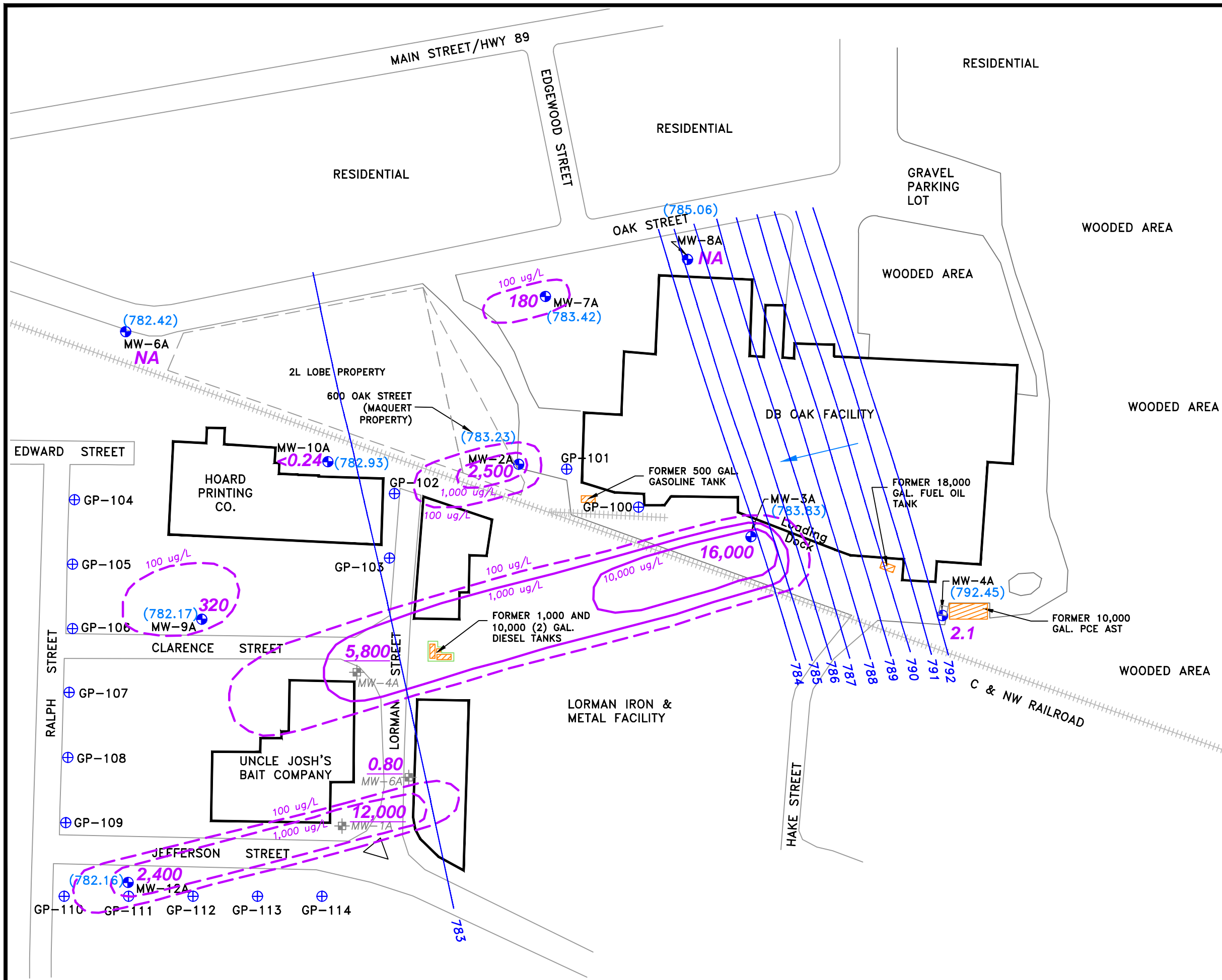
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DRAWN: DDZ, DAN PROJECT 42-1-37320 APPROVED: MSM

FIGURE 5
GROUNDWATER ELEVATIONS & CIS-1,2-DCE
SHALLOW WATER TABLE WELLS
(MARCH 2016)

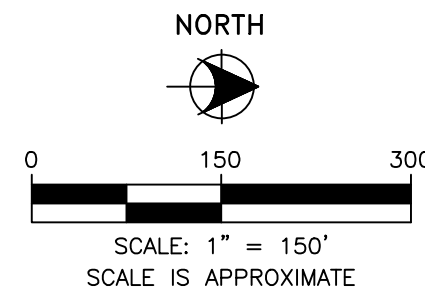
FORMER THOMAS INDUSTRIES
 700-710 OAK STREET, FORT ATKINSON, WISCONSIN

Filename: C:\PROJECTS\37320 GardnerDenver-DB OAKC-AD\SITE-2015-2016.dwg Tab: Fig 5A Date: 5/13/2016 Login: Dave Nemetz



LEGEND

- ⊕ EXISTING PIEZOMETER
- ⊕ PROBE BORING (TEMPORARY SCREEN set at 35')
- ⊕ ABANDONED PIEZOMETER (UNCLE JOSH'S BAIT COMPANY)
- FORMER TANKS
- FORMER EXCAVATION
- (790.68) GROUNDWATER ELEVATION (MEASURED APRIL 8, 2016)
- 789 GROUNDWATER ELEVATION CONTOUR
- ← GROUNDWATER FLOW DIRECTION
- 3,580 GROUNDWATER CIS-1,2-DCE in ug/L (Sampled March 21-22 & 31, 2016 except underlined values at UNCLE JOSH'S from June 2012) NA = no analysis
- 1,000 ug/L GROUNDWATER CIS-1,2-DCE CONTOUR (DASHED WHERE INFERRED)



SOURCES:

- ATEC, SITE PLAN, MARCH 30, 1995.
- AERIAL PHOTO, APRIL 21, 1996.
- AERIAL PHOTO, 2005.
- GOOGLE EARTH AERIAL PHOTO, SEPT. 2010

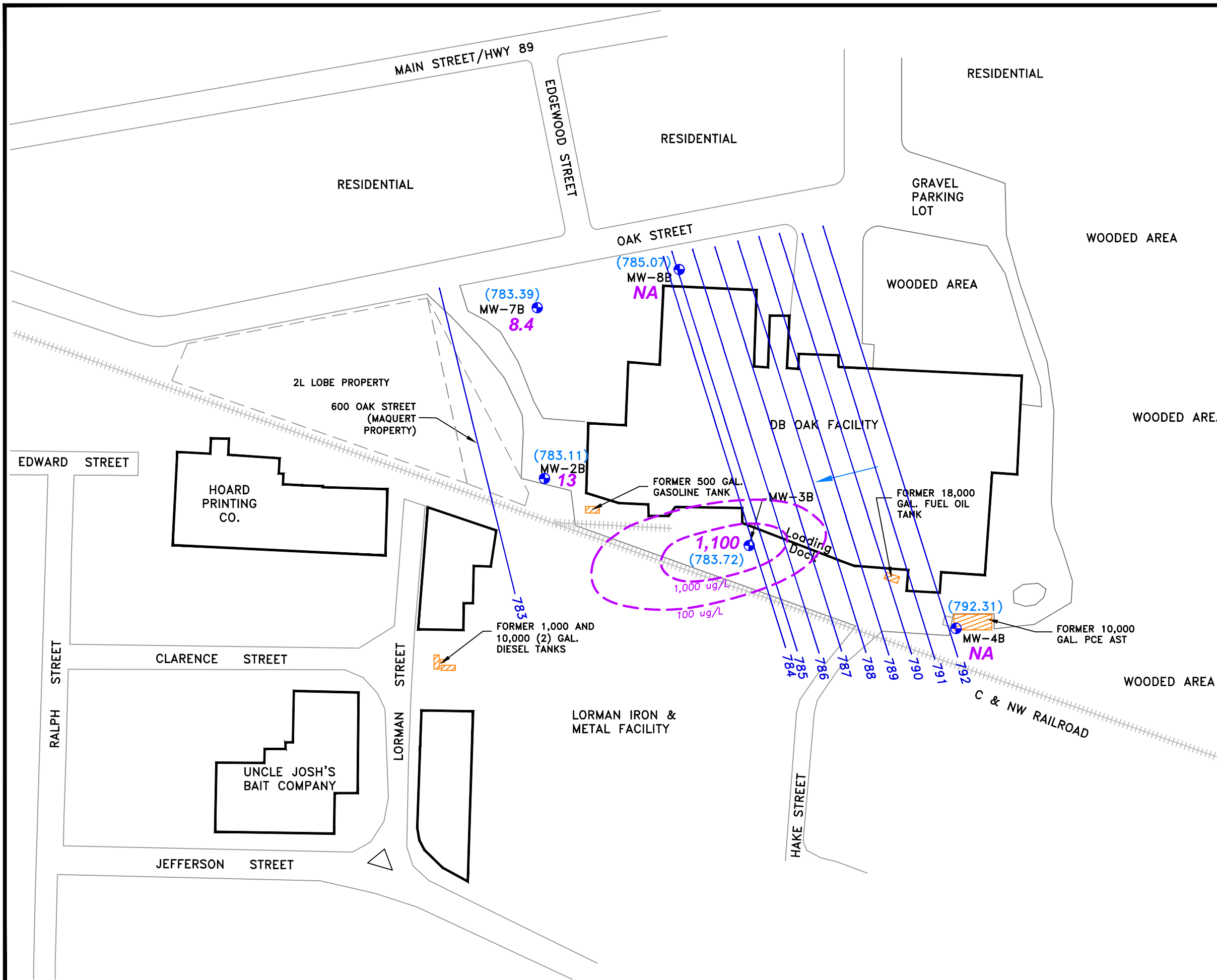
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DRAWN: DDZ, DAN PROJECT 42-1-37320 APPROVED: MSM




FIGURE 5A
GROUNDWATER ELEVATIONS & CIS-1,2-DCE
"A" HORIZON PIEZOMETERS
(MARCH 2016)

FORMER THOMAS INDUSTRIES
 700-710 OAK STREET, FORT ATKINSON, WISCONSIN

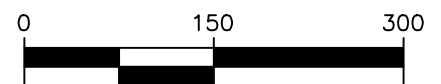
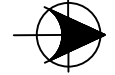
Filename: C:\PROJECTS\37320 Gardner\Denver-DB OAK\CAD\SITE-2015-2016.dwg Tab: Figure 5B Date: 5/13/2016 Login: Dave Nemetz



LEGEND

-  EXISTING PIEZOMETER
-  FORMER TANKS
- (790.68) GROUNDWATER ELEVATION (MEASURED APRIL 8, 2016)
- 789 — GROUNDWATER ELEVATION CONTOUR
-  GROUNDWATER FLOW DIRECTION
- 3,580 GROUNDWATER cis-1,2-DCE in ug/L (SAMPLED MARCH 21-22 & 31, 2016) NA = no analysis
- 1,000 ug/L GROUNDWATER cis-1,2-DCE CONTOUR (DASHED WHERE INFERRED)

NORTH



SCALE: 1" = 150'
SCALE IS APPROXIMATE

- SOURCES:
- ATEC, SITE PLAN, MARCH 30, 1995.
 - AERIAL PHOTO, APRIL 21, 1996.
 - AERIAL PHOTO, 2005.
 - GOOGLE EARTH AERIAL PHOTO, SEPT. 2010

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FIGURE 5B GROUNDWATER ELEVATIONS/TOTAL VOCS "B" HORIZON PIEZOMETERS (MARCH 2016)

FORMER THOMAS INDUSTRIES
700-710 OAK STREET, FORT ATKINSON, WISCONSIN

Appendices

Appendix A

Field Measurement Summary Tables

**Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016**

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
6/1/2009	TW-01	4.1	40	11.07	0.802	1.53	12.01	-223.8		
6/1/2009	TW-01			10.42	0.846	0.71	12.09	-233.2		
6/3/2009	TW-01			11.25	0.53	0.89	10.32	-146.80		
6/4/2009	TW-01			10.74	0.44	0.43	10.91	-190.80		
6/5/2009	TW-01			10.32	0.397	0.28	11.35	-168.80		
6/10/2009	TW-01									EOS in well
6/11/2009	TW-01									EOS in well
7/9/2009	TW-01			12.81	1.278	0.11	6.76	-179.3	8.23	
9/22/2009	TW-01	0.34	47	16.68	2.348	0.51	5.67	-18.80	8.88	
12/2/2009	TW-01	<0.025	<2.5	13.94	1.02	0.40	6.81	-249	9.22	
3/23/2010	TW-01	<0.025	<2.5	8.62	0.301	1.45	6.84	-166.0	8.49	
6/22/2010	TW-01	<0.025	<2.5	12.38	1.457	1.04	6.51	-131.7	7.54	
9/15/2010	TW-01	<0.13	<2.5	16.33	1.314	0.50	7.85	-151.30	8.05	
12/14/2010	TW-01	<0.025	<4.7>	12.43	0.291	2.12	6.85	-36.20	9.11	
3/9/2011	TW-01	<0.025	9.8	8.55	0.396	0.66	6.90	-238.1	8.23	
4/12/2011	TW-01			8.93	0.591	0.00	6.94	-253.4	7.82	
6/28/2011	TW-01	4.2	<2.5	12.39	0.787	1.34	6.62	-77.1	8.46	
9/20/2011	TW-01	<0.050	<2.5	16.55	0.774	0.63	6.77	-267.0	9.92	
12/5/2011	TW-01	<0.025	8.7	14.16	0.376	0.20	9.20	-146.2	8.94	
3/6/2012	TW-01	<0.050	9.0	9.44	0.371	1.46	7.03	-194.3	NA	WLI malfunction
3/26/2012	TW-01								8.82	
6/6/2012	TW-01								8.76	
9/24/2012	TW-01	<0.052>	<3.4>	17.52	0.781	0.54	6.98	-101.7	10.72	
12/5/2012	TW-01									
3/21/2013	TW-01	<0.025	21	7.91	0.465	0.26	7.32	-185.0	8.51	
6/11/2013	TW-01								7.49	
9/16/2013	TW-01	<0.034>	<2.5	15.90	0.614		7.02	-62.9	9.07	
12/4/2013	TW-01								9.49	
3/24/2014	TW-01	<0.025	12	8.19	0.289	1.41	6.67	-1.8	9.44	
6/23/2014	TW-01								6.96	
9/24/2014	TW-01	<0.036>	22						9.44	
12/22/2014	TW-01								9.61	
3/10/2015	TW-01	0.27	22	8.75	0.215	0.76	8.01	77.2	9.61	
6/18/2015	TW-01								8.32	
9/22/2015	TW-01	0.20	33	16.35	0.350	2.53	7.33	32.8	8.65	
12/21/2015	TW-01								8.02	
3/21/2016	TW-01	0.21	60	9.05	0.460	1.9	7.48	-38.4	8.35	

**Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016**

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
6/1/2009	TW-02	0.14	19	12.49	0.312	2.05	10.56	-164.8		
6/2/2009	TW-02			10.26	0.432	1.00	10.41	-116		
6/3/2009	TW-02			10.32	0.374	0.62	9.62	-102.00		
6/4/2009	TW-02			10.34	0.377	0.36	9.09	-123.30		
6/5/2009	TW-02			10.31	0.475	0.38	7.97	-101.00		
6/5/2009	TW-02			10.20	0.443	0.10	8.67	-111.30		
6/10/2009	TW-02			10.55	0.403	0.14	8.48	-188.1		
6/11/2009	TW-02			10.61	0.409	0.14	8.53	-196.1		
7/9/2009	TW-02			16.17	0.544	0.11	11.10	-179.3	4.91	
9/22/2009	TW-02	<0.025	<2.5	17.54	0.620	0.48	11.58	-253.70	5.61	
12/2/2009	TW-02	<0.025	5.1	12.92	0.457	0.32	10.52	-390.8	4.31	
12/2/2009	TW-02	<0.025	5.6							
3/23/2010	TW-02	<0.025	<4.3>	7.01	0.705	2.56	11.93	-287.1	3.92	
6/22/2010	TW-02	<0.025	<2.5	12.50	0.592	0.87	10.83	-217.0	3.70	
9/15/2010	TW-02	<0.025	<2.5	16.88	0.794	0.18	12.06	-229.40	4.72	
12/14/2010	TW-02	<0.025	<4.7>	9.65	0.543	4.27	11.61	-58.50	4.49	
3/9/2011	TW-02	1.4	11	6.42	0.299	1.19	10.31	-265.1	3.69	
4/12/2011	TW-02			7.17	0.523	0.00	8.84	-288.9	4.29	
6/28/2011	TW-02	4.6	<2.5	13.39	1.053	0.86	7.24	-79.1	4.22	
9/20/2011	TW-02	<0.050	<2.5	18.51	0.602	0.49	11.26	-335.7	5.80	
12/5/2011	TW-02	<0.025	<4.4>	12.92	0.555	0.20	9.30	-171.8	4.12	
3/6/2012	TW-02	0.34	43	8.10	0.671	2.03	11.48	-307.5	NA	WLI malfunction
3/26/2012	TW-02								4.02	
6/6/2012	TW-02	<0.025	<2.9>	12.39	0.591	0.66	11.61	-241.8	4.46	
9/24/2012	TW-02	<0.032>	<2.8>	17.16	0.807	0.53	11.00	-82.8	6.24	
12/5/2012	TW-02									
3/21/2013	TW-02	0.10	19	7.73	0.696	0.25	11.25	-278.3	3.73	
6/11/2013	TW-02	<0.025	<3.9>						3.97	
9/16/2013	TW-02	<0.032>	<3.6>	15.50	0.676		10.75	-257.6	4.96	
12/4/2013	TW-02	0.098	72						4.54	
3/24/2014	TW-02	<0.025	14	6.29	0.394	0.83	10.68	-87.7	3.82	
6/23/2014	TW-02	<0.051>	12						3.34	
9/24/2014	TW-02	<0.025	5.9						5.17	
12/22/2014	TW-02	<0.025	17						4.58	
3/10/2015	TW-02	0.19	18	6.78	0.263	0.35	10.52	-98.5	5.17	
6/18/2015	TW-02								4.31	
9/22/2015	TW-02	<0.050	34	14.82	0.566	1.23	7.50	-140	4.55	
12/21/2015	TW-02								3.75	
3/21/2016	TW-02	<0.019	14	8.37	0.287	2.15	7.31	-56.4	3.79	

**Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016**

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
6/1/2009	TW-03	4.3	48	11.32	0.536	0.28	7.95	-132.8		
6/2/2009	TW-03			10.52	0.465	0.14	7.41	-75.1		
6/2/2009	TW-03			10.24	0.436	0.08	7.49	-102		
6/2/2009	TW-03			10.44	0.651	4.49	9.47	-22.9		
6/2/2009	TW-03			9.38	0.484	0.16	7.8	-112		
6/3/2009	TW-03			9.46	0.482	0.06	7.56	-119.20		
6/4/2009	TW-03			10.18	0.424	0.25	7.52	-97.00		
6/5/2009	TW-03			9.63	0.419	0.14	7.56	-100.00		
6/5/2009	TW-03			9.68	0.402	0.11	7.44	-90.60		
6/10/2009	TW-03			10.14	0.341	0.39	7.55	-92.6		
6/11/2009	TW-03			10.06	0.377	0.30	7.54	-96.2		
7/9/2009	TW-03			15.06	0.596	0.09	7.10	-179.3	2.25	
9/22/2009	TW-03	<0.025	44	18.10	0.609	0.83	7.53	-30.60	3.13	
12/2/2009	TW-03	<0.025	24	11.42	0.519	0.47	7.20	-215.7	1.61	
3/23/2010	TW-03	<0.025	<3.6>	6.09	0.154	5.61	8.25	-46.2	1.62	
6/22/2010	TW-03	<0.025	<3.7>	14.92	0.813	0.40	7.36	-179.2	0.60	
9/15/2010	TW-03	<0.13	<4.9>	17.51	0.730	0.35	8.98	-202.40	2.02	
12/14/2010	TW-03									Could not find
3/9/2011	TW-03	<0.025	<3.1>	1.52	1.302	15.17	8.17	211.5	1.56	
4/12/2011	TW-03			7.16	0.798	0.00	7.59	-192.9	1.37	
6/28/2011	TW-03	0.15	<5.0>	12.03	0.688	0.88	7.27	-97.7	2.50	
9/20/2011	TW-03	<0.050	<3.6>	17.52	0.710	0.69	7.07	-94.9	4.01	
12/5/2011	TW-03	<0.025	<2.5	12.66	0.670	0.33	8.98	-140.0	1.50	
3/6/2012	TW-03	0.17	<3.0>	4.87	0.275	9.71	6.97	-56.9	NA	WLI malfunction
3/26/2012	TW-03								1.71	
6/6/2012	TW-03	<0.025	9.5	11.77	0.697	0.53	11.77	-154.5	2.70	
9/24/2012	TW-03	<0.054>	14	17.32	0.867	0.62	6.94	-68.5	5.46	
12/5/2012	TW-03									
3/21/2013	TW-03	<0.025	21	6.54	0.845	0.47	7.07	-72.1	2.29	
6/11/2013	TW-03	<0.025	23						1.81	
9/16/2013	TW-03	<0.025	25	17.10	1.002		7.02	-78.4	2.84	
12/4/2013	TW-03	<0.025	22						1.84	
3/24/2014	TW-03	<0.025	22	6.14	0.690	0.76	6.00	15.7	1.52	
6/23/2014	TW-03	<0.054>	22						1.06	
9/24/2014	TW-03	<0.030>	30						3.49	
12/22/2014	TW-03	<0.044>	28						2.55	
3/10/2015	TW-03	<0.025	33	6.45	0.619	0.75	6.90	-78	3.48	
6/18/2015	TW-03								2.20	
9/22/2015	TW-03	<0.050	43	15.25	0.692	0.36	6.97	-106.5	3.05	
12/21/2015	TW-03								1.61	
3/21/2016	TW-03	<0.061>	33	8.23	0.588	2.07	7.02	-67.9	1.70	

**Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016**

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
5/26/2009	MW-2	0.23	35	10.33	0.934	2.41	7.27	52.8	6.32	
7/9/2009	MW-2			12.28	1.057	0.20	6.80	-8.7	7.93	
9/22/2009	MW-2	<0.025	30	14.03	1.073	1.05	7.22	-106.30	10.24	
12/2/2009	MW-2	<0.047>	34	12.18	0.949	0.65	6.86	-14.7	9.83	
3/23/2010	MW-2		44	6.92	0.812	2.32	6.90	17.3	8.87	
6/22/2010	MW-2	<0.055>	40	11.62	1.326	0.79	6.40	-102.2	6.59	
9/15/2010	MW-2	<0.025>	29	15.64	1.212	0.34	8.42	-148.50	7.77	
12/14/2010	MW-2	<0.066>	27	11.45	0.772	0.21	6.91	5.10	9.77	
3/9/2011	MW-2	<0.057>	34	5.63	0.699	4.37	6.94	182.1	9.26	
4/12/2011	MW-2			7.38	1.321	0.00	7.19	-76.3	7.91	
6/28/2011	MW-2	0.081	38	10.94	1.094	0.80	6.83	83.3	8.76	
9/20/2011	MW-2	<0.050	46	14.06	1.007	0.63	6.87	-90.6	10.69	
12/5/2011	MW-2	<0.035>	62	12.44	0.070	0.31	6.30	-25.5	10.07	
3/6/2012	MW-2	0.11	68	8.21	0.853	1.39	6.74	-62.6	NA	WLI malfunction
3/26/2012	MW-2								9.50	
6/6/2012	MW-2	0.090	69	10.34	0.946	0.84	6.83	-128	9.19	
9/24/2012	MW-2	<0.028>	86	15.06	1.212	1.32	6.87	-8.1	11.41	
12/5/2012	MW-2	<0.050	93							
3/21/2013	MW-2	0.18	83	7.90	1.122	0.42	7.01	-86.5	9.41	
6/11/2013	MW-2	0.36	42						7.07	
9/16/2013	MW-2	0.22	43	14.10	1.235		6.97	-46.9	9.52	
12/4/2013	MW-2	0.13	55						10.19	
3/24/2014	MW-2	0.17	59	5.73	0.943	2.42	6.57	188.7	10.38	
6/23/2014	MW-2	<0.20	39						7.22	
9/24/2014	MW-2	<0.049>	57						10.22	
12/22/2014	MW-2	<0.034>	64						10.78	
3/10/2015	MW-2	<0.025	69	6.84	0.861	2.31	6.98	56.5	11.52	
6/18/2015	MW-2								9.99	
9/22/2015	MW-2	<0.088>	77	12.95	0.902	1.12	6.38	17.3	10.32	
12/21/2015	MW-2								8.9	
3/21/2016	MW-2	0.18	54	7.41	0.889	6.05	7.02	76.5	8.84	

**Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016**

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
5/26/2009	MW-2A	<0.025	38	9.01	0.470	0.04	7.38	-27.1	6.28	
7/9/2009	MW-2A			11.59	0.493	0.12	7.09	-33.6	7.9	
9/22/2009	MW-2A	<0.025	64	12.64	0.473	0.61	7.33	-107.10	10.32	
12/2/2009	MW-2A	<0.025	75	11.94	0.5	0.19	7.27	-275.4	9.94	
3/23/2010	MW-2A	<0.025	86	7.58	0.496	1.84	7.41	22.6	8.93	
6/22/2010	MW-2A	<0.025	59	10.80	0.866	0.35	6.62	-124.1	6.55	
9/15/2010	MW-2A	<0.025	65	14.84	0.126	0.15	8.68	-177.60	7.76	
12/14/2010	MW-2A	<0.025	74	11.46	0.189	0.35	7.79	0.20	9.87	
3/9/2011	MW-2A	<0.025	87	6.90	0.243	6.09	7.66	165.6	9.30	
4/12/2011	MW-2A			11.40	0.986	0.00	7.40	-149.1	7.89	
6/28/2011	MW-2A	<0.069>	66	10.33	0.325	0.41	7.26	71.9	8.77	
9/20/2011	MW-2A	<0.050	63	10.95	0.586	0.76	7.15	-125.1	10.69	
12/5/2011	MW-2A	<0.025	80	11.25	0.672	0.23	6.32	-48.7	10.10	
3/6/2012	MW-2A	<0.050	88	11.42	0.713	1.23	6.91	-120.6	NA	WLI malfunction
3/26/2012	MW-2A								9.52	
6/6/2012	MW-2A	<0.025	110	10.60	0.381	0.94	7.31	-131	9.20	
9/24/2012	MW-2A	<0.025	120	11.19	0.981	0.60	7.05	-24.9	11.44	
12/5/2012	MW-2A	<0.050	100							
3/21/2013	MW-2A	<0.050	95	11.65	1.038	0.21	7.10	-173.2	9.34	
6/11/2013	MW-2A	<0.025	70						6.92	
9/16/2013	MW-2A	<0.025	62	11.30	0.863		7.27	-117.3	9.55	
12/4/2013	MW-2A	<0.025	75						10.24	
3/24/2014	MW-2A	<0.025	76	11.55	0.747	0.55	6.83	42.2	10.46	
6/23/2014	MW-2A	<0.030>	96						7.21	
9/24/2014	MW-2A	<0.025	75						10.15	
12/22/2014	MW-2A	<0.027>	77						10.82	
3/10/2015	MW-2A	<0.025	75	10.98	0.747	1.04	7.12	-74.2	11.60	
6/18/2015	MW-2A								10.01	
9/22/2015	MW-2A	<0.050	88	9.66	0.615	0.74	6.83	-88.6	10.32	
12/21/2015	MW-2A								8.92	
3/21/2016	MW-2A	<0.019	110	11.63	0.745	1.97	7.14	-22.8	8.85	

**Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016**

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
5/26/2009	MW-2B	0.11	81	8.89	0.093	0.53	5.81	70.4	6.31	
7/9/2009	MW-2B								7.94	
9/22/2009	MW-2B	0.76	74	13.43	0.168	0.74	7.19	-72.20	10.40	
12/2/2009	MW-2B	0.60	74	12.08	0.226	3.28	7.25	55.4	10.01	
3/23/2010	MW-2B		65	9.76	0.182	3.03	7.44	24.6	8.96	
6/22/2010	MW-2B	0.18	66	11.59	0.321	0.71	6.72	-113.1	6.62	
9/15/2010	MW-2B	0.53	62	15.21	0.310	0.29	7.81	-128.40	7.82	
12/14/2010	MW-2B	0.58	57	11.67	0.247	2.99	7.31	2.60	9.92	
3/9/2011	MW-2B	0.64	52	2.17	0.085	13.92	7.73	188.3	9.32	
4/12/2011	MW-2B			7.64	0.513	0.00	7.64	-187.5	7.92	
6/28/2011	MW-2B	<0.039>	64	11.26	0.123	4.20	7.25	78.4	8.80	
9/20/2011	MW-2B	0.42	69	11.4	0.869	0.94	7.21	35.9	10.73	
12/5/2011	MW-2B	0.38	67	11.30	0.231	0.35	6.37	-82.5	10.13	
3/6/2012	MW-2B	0.41	65	11.36	0.459	1.34	6.92	-15.4	NA	WLI malfunction
3/26/2012	MW-2B								9.58	
6/6/2012	MW-2B								9.24	
9/24/2012	MW-2B	0.50	59	11.33	1.164	0.76	7.18	-40.6	11.44	
12/5/2012	MW-2B									
3/21/2013	MW-2B	1.1	63	11.62	0.158	0.69	6.90	-183.4	9.44	
6/11/2013	MW-2B								6.93	
9/16/2013	MW-2B	0.82	59	11.70	1.113		7.28	-73.9	9.51	
12/4/2013	MW-2B								10.32	
3/24/2014	MW-2B	1.1	59	11.54	0.779	0.45	6.94	31.1	10.52	
6/23/2014	MW-2B								7.25	
9/24/2014	MW-2B	0.48	65						10.19	
12/22/2014	MW-2B								10.86	
3/10/2015	MW-2B	0.92	64	11.23	0.836	1.27	7.20	-56.4	11.58	
6/18/2015	MW-2B								10.03	
9/22/2015	MW-2B	1.0	72	10.25	0.713	1.03	6.87	-57.7	10.36	
12/21/2015	MW-2B								8.94	
3/21/2016	MW-2B	0.94	68	11.51	0.786	1.81	7.23	27.7	8.89	

**Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016**

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
5/26/2009	MW-3	<0.025	60	11.54	0.598	0.30	7.99	51.4	5.30	
6/1/2009	MW-3			12.81	0.499	1.83	8.14	-27.4		
6/3/2009	MW-3			11.40	0.515	0.32	7.76	-40.80		
6/4/2009	MW-3			10.74	0.474	0.25	7.65	-24.80		
6/5/2009	MW-3			11.25	0.425	0.95	7.60	26.60		
6/10/2009	MW-3			11.31	0.404	0.34	7.66	-72.2		
6/11/2009	MW-3			11.20	0.393	0.44	7.57	-65.7		
7/9/2009	MW-3			13.89	1.443	0.16	6.77	-166.7	6.59	
9/22/2009	MW-3	<0.025	<2.5	15.18	0.434	0.25	6.22	-181.20	7.82	
12/2/2009	MW-3	<0.025	<2.5	13.23	1.18	0.74	6.26	-208.1	6.64	
3/23/2010	MW-3	<0.025	<2.5	7.23	0.714	1.15	6.44	-191.2	6.10	
6/22/2010	MW-3	<0.025	<2.5	12.47	1.343	0.40	6.03	-159.4	5.30	
9/15/2010	MW-3	<0.025	2300	16.46	1.366	0.36	8.57	-221.20	5.99	
12/14/2010	MW-3	<0.025	<2.5	11.36	1.005	0.05	6.35	-52.40	6.19	
3/9/2011	MW-3	<0.025	<2.5	7.11	1.218	0.85	6.42	-220.5	5.52	
4/12/2011	MW-3			8.84	1.523	0.00	6.73	-273	5.58	
6/28/2011	MW-3	0.4	<2.5	13.28	1.668	0.82	6.27	-48.6	6.16	
9/20/2011	MW-3	<0.050	<2.5	16.28	1.535	0.61	6.29	-220.0	6.94	
12/5/2011	MW-3	<0.025	<2.5	12.94	1.565	0.59	9.13	-138.9	5.69	
3/6/2012	MW-3	<0.050	<3.4>	8.24	1.254	1.29	6.15	-211.5	NA	WLI malfunction
3/26/2012	MW-3								5.84	
6/6/2012	MW-3	<0.025	<2.5	12.10	1.457	1.03	6.42	-120.1	5.94	
9/24/2012	MW-3	<0.025	<2.5	16.83	1.364	0.47	6.70	-87.1	7.14	
12/5/2012	MW-3	<0.050	<2.5							
3/21/2013	MW-3	<0.050	<2.5	8.05	1.762	0.37	6.72	-166.4	5.49	
6/11/2013	MW-3	<0.025	<2.5						5.23	
9/16/2013	MW-3	<0.025	<2.5	16.00	1.799		6.77	-83.2	6.14	
12/4/2013	MW-3	<0.025	<2.5						6.25	
3/24/2014	MW-3	<0.025	86	7.12	0.831	0.6	6.06	-15.5	5.82	
6/23/2014	MW-3	<0.027>	9.5						5.00	
9/24/2014	MW-3	<0.038>	84						6.66	
12/22/2014	MW-3	<0.031>	9.8						6.50	
3/10/2015	MW-3	<0.025	<3.5>	7.27	1.084	0.28	6.65	-118.7	6.53	
6/18/2015	MW-3								5.58	
9/22/2015	MW-3	<0.050	60	15.19	0.458	0.40	6.78	-27.1	5.49	
12/21/2015	MW-3								5.38	
3/21/2016	MW-3	<0.051>	21	9.12	0.421	2.62	6.99	27.4	5.70	

**Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016**

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
5/26/2009	MW-3A	<0.025	66	10.61	0.776	1.43	7.41	43.7	8.61	
6/3/2009	MW-3A			13.65	0.849	0.03	7.15	-58.70		
6/4/2009	MW-3A			13.52	0.824	0.11	7.19	-44.30		
6/5/2009	MW-3A			13.42	0.763	0.06	7.20	-50.00		
6/10/2009	MW-3A			13.47	0.673	0.11	7.35	-59.2		
6/11/2009	MW-3A									EOS in well
7/9/2009	MW-3A			13.52	1.028	0.21	7.02	-248.8	9.84	
9/22/2009	MW-3A	<0.025	57	14.74	0.999	1.21	7.03	-238.60	11.86	
12/2/2009	MW-3A	<0.025	58	13.49	0.928	0.77	6.95	-284.1	11.23	
3/23/2010	MW-3A	<0.025	57	10.38	0.828	1.16	7.18	-117.9	10.35	
6/22/2010	MW-3A	<0.025	57	13.55	1.131	0.50	6.69	-180.7	8.80	
9/15/2010	MW-3A	<0.050	57	16.50	0.967	0.32	9.14	-228.90	9.75	
12/14/2010	MW-3A	<0.025	57	12.69	0.667	0.42	7.16	8.50	11.25	
3/9/2011	MW-3A	<0.025	58	9.14	0.779	0.70	7.17	123.6	10.73	
4/12/2011	MW-3A			13.8	1.035	0.00	7.25	-228.6	9.62	
6/28/2011	MW-3A	1.3	14	12.07	0.784	1.43	5.19	15.6	10.59	EOS in well
9/20/2011	MW-3A	<0.050	33	13.42	1.329	0.85	5.38	-165.7	12.14	EOS in well
12/5/2011	MW-3A	<0.025	17	13.48	1.095	0.20	9.94	-146.0	11.30	
3/6/2012	MW-3A	<0.050	<4.0>	13.45	1.184	1.45	5.86	-138.5	NA	WLI malfunction
3/26/2012	MW-3A								10.86	
6/6/2012	MW-3A	<0.025	20	13.38	1.335	0.65	6.46	-122.1	10.78	
9/24/2012	MW-3A	<0.025	<3.7>	13.42	1.642	0.35	6.23	-69.2	12.86	
12/5/2012	MW-3A	<0.050	32							
3/21/2013	MW-3A	<0.050	30	13.49	1.666	0.11	6.51	-205.8	10.75	
6/11/2013	MW-3A	<0.025	32						9.12	
9/16/2013	MW-3A	<0.025	30	14.40	1.421		6.69	-96.7	11.13	
12/4/2013	MW-3A	<0.025	31						11.59	
3/24/2014	MW-3A	<0.025	35	12.5	1.003	1.14	6.92	-40.2	11.67	
6/23/2014	MW-3A	<0.035>	37						8.96	
9/24/2014	MW-3A	<0.041>	38						11.67	
12/22/2014	MW-3A	<0.038>	34						12.07	
3/10/2015	MW-3A	<0.025	34	13.32	1.174	0.48	6.61	-81.7	12.85	
6/18/2015	MW-3A								11.61	
9/22/2015	MW-3A	<0.050	35	11.99	0.885	0.14	6.77	-123.1	11.85	
12/21/2015	MW-3A								10.31	
3/21/2016	MW-3A	<0.048>	36	13.45	1.004	1.39	6.69	-76.5	10.37	

**Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016**

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
5/26/2009	MW-3B	<0.025	74	10.50	0.522	4.16	7.84	18.7	8.65	
6/3/2009	MW-3B			13.85	0.582	0.05	7.48	-52.90		
6/4/2009	MW-3B			13.81	0.539	0.66	7.50	10.10		
6/5/2009	MW-3B			13.70	0.503	0.30	7.54	1.20		
6/10/2009	MW-3B			13.79	0.446	0.14	7.59	-21.1		
6/11/2009	MW-3B			13.71	0.445	0.17	7.59	-38.60		
7/9/2009	MW-3B			13.04	0.622	0.20	7.23	-50.6	9.89	
9/22/2009	MW-3B	<0.025	66	16.33	0.416	0.46	8.14	-177.70	11.90	
12/2/2009	MW-3B	<0.025	69	13.52	0.603	0.57	7.20	-247.4	11.28	
3/23/2010	MW-3B	<0.025	66	9.74	0.548	7.03	7.51	-67.7	10.39	
6/22/2010	MW-3B	<0.025	65	12.61	0.797	2.65	7.55	-121.6	8.88	
9/15/2010	MW-3B	<0.025	67	16.72	0.689	0.31	9.52	-206.40	9.81	
12/14/2010	MW-3B	<0.025	64	12.31	0.482	2.40	7.49	11.40	11.30	
3/9/2011	MW-3B	<0.025	62	9.12	0.582	7.5	7.67	136.8	10.66	
4/12/2011	MW-3B			13.42	0.744	0.00	7.51	-154.3	9.65	
6/28/2011	MW-3B	0.85	48	12.13	1.003	3.02	3.39	253.8	10.97	EOS in well
9/20/2011	MW-3B	<0.050	50	13.59	0.851	0.93	4.83	-131.1	12.20	EOS in well
12/5/2011	MW-3B	<0.025	44	13.50	0.575	0.24	9.63	-168.7	11.36	
3/6/2012	MW-3B	<0.050	30	13.53	0.661	1.00	6.24	-247.4	NA	WLI malfunction
3/26/2012	MW-3B								10.89	
6/6/2012	MW-3B	<0.025	37	13.51	0.732	0.40	6.58	-156.4	10.80	
9/24/2012	MW-3B	<0.025	40	13.42	0.998	0.49	6.04	-42.8	12.88	
12/5/2012	MW-3B	<0.050	44							
3/21/2013	MW-3B	<0.050	52	13.28	0.954	0.30	6.77	-236.2	10.81	
6/11/2013	MW-3B	<0.025	52						9.15	
9/16/2013	MW-3B	<0.025	49	14.00	0.803		7.11	-135.9	11.16	
12/4/2013	MW-3B	<0.032>	47						11.67	
3/24/2014	MW-3B	<0.025	46	12.68	0.585	0.584	7.14	-74	11.71	
6/23/2014	MW-3B	<0.044>	54						9.05	
9/24/2014	MW-3B	<0.033>	52						11.71	
12/22/2014	MW-3B	<0.029>	53						12.11	
3/10/2015	MW-3B	<0.025	53	13.12	0.647	0.47	7.11	-132.7	12.89	
6/18/2015	MW-3B								11.34	
9/22/2015	MW-3B	<0.050	58	11.94	0.490	0.30	7.10	-135.5	11.86	
12/21/2015	MW-3B								10.35	
3/21/2016	MW-3B	<0.030>	56	13.22	0.576	1.49	7.19	-104	10.42	

**Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016**

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
5/26/2009	MW-3C	<0.025	12	10.36	0.479	0.18	7.93	-57.3	8.56	
7/9/2009	MW-3C			12.75	0.374	0.13	7.91	-150.3	9.3	
9/22/2009	MW-3C	<0.025	3.6	14.97	0.634	0.50	7.33	-214.60	9.00	
12/2/2009	MW-3C	<0.025	<2.5	13.26	0.441	0.50	7.52	-220.6	11.65	
3/23/2010	MW-3C	<0.025	<2.5	10.69	0.473	1.89	7.53	-256.5	10.70	
6/22/2010	MW-3C	<0.025	<3.0>	12.41	0.564	0.35	7.12	-172.9	9.52	
9/15/2010	MW-3C	<0.13	<2.5	16.35	0.405	0.27	8.90	-153.10	8.35	
12/14/2010	MW-3C	<0.025	<2.5	12.98	0.286	0.24	7.78	6.50	11.30	
3/9/2011	MW-3C	<0.025	<2.5	9.47	0.353	1.36	7.83	145.7	11.03	
4/12/2011	MW-3C			12.99	0.421	0.00	8.28	-290.4	9.73	
6/28/2011	MW-3C	0.89	<2.5	13.28	0.363	1.51	7.19	-22.8	10.5	
9/20/2011	MW-3C	<0.050	<2.5	13.63	0.322	0.71	7.91	-238.2	12.32	
12/5/2011	MW-3C	<0.025	<2.5	13.37	0.335	0.25	6.52	-70.4	11.73	
3/6/2012	MW-3C	<0.050	<2.5	13.59	0.335	1.08	7.63	-122.0	11.72	
3/26/2012	MW-3C								11.15	
6/6/2012	MW-3C								10.95	
9/24/2012	MW-3C	<0.025	<2.5	13.45	0.422	0.37	7.75	-82.5	11.23	
12/5/2012	MW-3C									
3/21/2013	MW-3C			13.57	0.428	0.53	7.91	-191.1	11.15	
6/11/2013	MW-3C								8.97	
9/16/2013	MW-3C	<0.025	<2.5	13.70	0.415		8.04	-62.1	11.17	
12/4/2013	MW-3C								11.85	
3/24/2014	MW-3C	<0.025	<2.5	12.38	0.329	0.416	7.83	-147	7.19	
6/23/2014	MW-3C								9.14	
9/24/2014	MW-3C	<0.043>	<2.5						11.84	
12/22/2014	MW-3C								12.4	
3/10/2015	MW-3C	<0.025	<2.5	12.82	0.354	0.56	7.88	-98.3	13.21	
6/18/2015	MW-3C								11.6	
9/22/2015	MW-3C	<0.050	<2.5	12.10	0.315	0.89	7.33	-112	12.04	
12/21/2015	MW-3C								10.59	
3/21/2016	MW-3C	<0.056>	<2.5	13.23	0.309	2.09	8.15	-26.5	10.63	

**Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016**

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
5/26/2009	IW-01	<0.025	5	10.51	0.475	0.20	7.62	-46.3	8.05	
7/9/2009	IW-01			12.51	0.528	0.19	7.43	-124.3	9.34	
9/22/2009	IW-01	<0.025	<2.5	15.53	0.551	0.76	7.79	-151.30	11.32	
12/2/2009	IW-01	<0.025	<2.5	13.11	0.549	0.76	7.37	-172.8	10.72	
3/23/2010	IW-01	<0.025	<2.5	11.14	0.539	2.34	7.62	-154.2	9.88	
6/22/2010	IW-01	<0.025	<2.5	12.39	0.723	0.75	6.95	-159.8	8.57	
9/15/2010	IW-01	<0.13	<2.5	15.81	0.607	1.05	9.76	-552.30	9.29	
12/14/2010	IW-01	<0.025	<2.5	13.83	0.432	0.76	7.56	5.30	10.78	
3/9/2011	IW-01	<0.025	<2.5	9.86	0.548	1.72	7.60	125.7	10.11	
4/12/2011	IW-01			13.01	0.723	0.00	8.86	-240.8	9.14	
6/28/2011	IW-01	0.91	18	11.89	0.547	0.58	6.87	-88	9.98	
9/20/2011	IW-01	<0.050	<2.5	13.47	0.543	0.85	7.02	-194.1	11.62	
12/5/2011	IW-01	<0.033>	<2.5	13.33	0.259	0.54	6.73	-77.9	10.84	
3/6/2012	IW-01	<0.050	<2.5	13.96	0.524	1.73	7.28	-25.2	10.82	
3/26/2012	IW-01								10.40	
6/6/2012	IW-01								10.30	
9/24/2012	IW-01	<0.025	<2.5	13.04	0.641	1.62	7.19	-52.9	12.39	
12/5/2012	IW-01	<0.025	<2.5							
3/21/2013	IW-01			13.52	0.708	0.77	7.42	-87.1	10.30	
6/11/2013	IW-01								8.63	
9/16/2013	IW-01	<0.031>	<2.5	13.50	0.708		7.51	-113.2	10.64	
12/4/2013	IW-01								11.01	
3/24/2014	IW-01	<0.025	<2.5	12.69	0.531	0.57	7.25	-77.6	11.19	
6/23/2014	IW-01								8.57	
9/24/2014	IW-01								11.17	
12/22/2014	IW-01								11.57	
3/10/2015	IW-01	<0.025	<2.5	12.51	0.598	0.82	7.37	-133	12.34	
6/18/2015	IW-01								10.88	
9/22/2015	IW-01	<0.027>	<2.5	12.48	0.563	0.30	6.87	-134	11.16	
12/21/2015	IW-01								9.83	
3/21/2016	IW-01	<0.027>	<2.5	13.23	0.569	2.01	7.34	-66.5	9.91	

**Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016**

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
5/26/2009	MW-4	<0.025	51	10.66	0.535	1.35	7.57	24.4	6.72	
6/2/2009	MW-4			9.01	0.496	0.14	7.52	31.1		
6/4/2009	MW-4			9.19	0.465	0.31	7.56	-79.70		
6/5/2009	MW-4			9.27	0.44	0.90	7.58	-98.70		
6/10/2009	MW-4									EOS in well
7/9/2009	MW-4			14.34	0.637	0.12	6.59	-153.7	7.5	
9/22/2009	MW-4	<0.025	4.1	15.43	0.727	0.90	7.05	-109.10	8.86	
12/2/2009	MW-4	<0.025	<3.9>	12.12	0.7	0.45	6.98	-166	6.97	
3/23/2010	MW-4	<0.025	13	6.22	0.57	2.43	7.04	-115.4	6.73	
6/22/2010	MW-4		<2.5	10.94	1.035	0.44	6.72	-157.6	5.86	
9/15/2010	MW-4	<0.13	<2.9>	15.33	0.875	0.33	9.29	-203.80	7.49	
12/14/2010	MW-4	<0.025	8.8	10.68	0.604	1.81	6.78	-34.80	7.01	
3/9/2011	MW-4	<0.025	15	6.41	0.778	0.87	6.77	-158.5	6.51	
4/12/2011	MW-4			8.28	1.081	0.00	7.37	-218.1	6.86	
6/28/2011	MW-4	0.25	<2.5	11.52	1.288	1.00	6.38	-93.4	8.00	
9/20/2011	MW-4	<0.050	<2.5	14.53	1.409	0.90	5.98	-159.8	9.77	
12/5/2011	MW-4	<0.032>	<3.4>	12.59	1.204	0.63	6.31	-64.0	7.07	
3/6/2012	MW-4	<0.050	<2.5>	7.84	1.356	1.71	6.21	-139.6	7.17	
3/26/2012	MW-4								7.24	
6/6/2012	MW-4	<0.025	6.4	10.22	1.418	0.43	6.42	-138.5	8.39	
9/24/2012	MW-4	<0.025	<2.7>	15.19	1.492	1.15	6.49	-49.4	11.23	
12/5/2012	MW-4	<0.050	<2.5							
3/21/2013	MW-4	<0.050	<2.5	7.79	1.392	0.21	6.81	-136.3	7.09	
6/11/2013	MW-4								7.34	
9/16/2013	MW-4	<0.025	5.1	15.10	1.564		6.63	-77.2	8.48	
12/4/2013	MW-4	<0.025	8.0						7.36	
3/24/2014	MW-4	<0.025	9.1	7.03	0.969	0.86	6.14	-21	6.95	
6/23/2014	MW-4	<0.070>	<2.5						6.49	
9/24/2014	MW-4	<0.055>	8.9						9.09	
12/22/2014	MW-4	<0.049>	11						8.05	
3/10/2015	MW-4	<0.025	17	7.53	1.226	0.95	6.59	-91.8	8.64	
6/18/2015	MW-4								7.87	
9/22/2015	MW-4	<0.050	<2.7>	13.11	0.871	0.49	6.66	-108	8.89	
12/21/2015	MW-4								7.08	
3/21/2016	MW-4	0.15	46	7.86	0.684	3.07	6.91	-55.9	6.95	

**Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016**

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
5/26/2009	MW-4A	<0.025	52	11.14	0.511	2.83	7.66	22.6	6.62	
7/9/2009	MW-4A			12.17	0.561	0.21	7.16	-52.0	7.4	
9/22/2009	MW-4A	<0.025	60	13.64	0.526	0.81	7.43	-54.50	8.75	
12/2/2009	MW-4A	<0.025	54	11.33	0.539	0.27	7.26	-200.9	6.85	
3/23/2010	MW-4A	<0.025	51	7.19	0.467	8.22	7.62	41.9	6.61	
6/22/2010	MW-4A	<0.025	50	12.00	0.720	0.83	7.11	-130.6	5.73	
9/15/2010	MW-4A	<0.13	51	15.59	0.624	0.31	10.13	-185.70	7.43	
12/14/2010	MW-4A	<0.025	51	10.66	0.429	4.08	7.61	-3.80	6.89	
3/9/2011	MW-4A	<0.025	53	6.82	0.505	7.68	7.63	-18.4	6.40	
4/12/2011	MW-4A			10.61	0.708	0.00	8.61	-173	6.74	
6/28/2011	MW-4A	0.35	57	11.46	0.573	2.82	7.45	-58.7	7.93	
9/20/2011	MW-4A	<0.050	60	10.31	0.508	0.59	7.22	-143.8	9.69	
12/5/2011	MW-4A	<0.025	59	10.79	0.532	0.27	6.29	-56.2	6.94	
3/6/2012	MW-4A	<0.050	55	10.62	0.525	1.14	7.03	-186.5	7.05	
3/26/2012	MW-4A								7.13	
6/6/2012	MW-4A	<0.025	59	10.32	0.532	0.60	7.30	-145.6	8.29	
9/24/2012	MW-4A	<0.025	58	10.54	0.726	0.36	7.17	-70.2	11.11	
12/5/2012	MW-4A									
3/21/2013	MW-4A	<0.050	65	10.90	0.714	0.75	7.33	0.75	6.98	
6/11/2013	MW-4A								7.24	
9/16/2013	MW-4A	<0.025	52	10.80	0.723		7.42	-96.5	8.37	
12/4/2013	MW-4A								7.25	
3/24/2014	MW-4A	<0.025	58	10.89	0.529	0.57	6.76	-45.3	6.86	
6/23/2014	MW-4A	2.3	38						6.43	
9/24/2014	MW-4A	<0.040>	54						9.01	
12/22/2014	MW-4A								8.04	
3/10/2015	MW-4A	<0.025	51	10.53	0.593	0.46	7.28	-102.4	8.51	
6/18/2015	MW-4A								7.75	
9/22/2015	MW-4A	<0.050	54	9.29	0.494	1.83	6.91	-124.7	8.76	
12/21/2015	MW-4A								6.98	
3/21/2016	MW-4A	<0.035>	<3.2>	10.79	0.539	2.21	7.32	-71.3	7.01	

Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
5/26/2009	MW-7	0.099	33	9.40	0.522	6.01	7.48	47.4	8.76	
7/9/2009	MW-7								10.49	
9/22/2009	MW-7	0.22	8.1	12.70	0.532	3.26	7.15	60.50	13.22	
12/2/2009	MW-7	0.46	7.5	12.01	0.494	2.28	7.23	54	12.82	
3/23/2010	MW-7	0.027	21	9.29	0.606	11.19	7.22	330.7	11.85	
6/22/2010	MW-7			11.21	0.751	6.50	6.40	-73.5	8.15	
9/15/2010	MW-7			14.87	0.646	7.19	8.42	-43.10	10.38	
12/14/2010	MW-7			11.29	0.479	2.70	7.12	11.50	12.73	
3/9/2011	MW-7			8.04	0.614	4.96	7.12	77.6	12.17	
4/12/2011	MW-7			8.76	0.771	1.99	7.53	54.5	10.71	
6/28/2011	MW-7			10.87	0.602	4.21	6.99	31.5	11.57	
9/20/2011	MW-7			12.28	0.549	2.84	7.11	-17.5	13.63	
12/5/2011	MW-7			12.44	0.563	5.35	7.50	-76.5	13.04	
3/6/2012	MW-7			9.49	0.543	4.26	6.87	161.2	13.06	
3/26/2012	MW-7								12.48	
6/6/2012	MW-7								12.06	
9/24/2012	MW-7	3.7	9.8	12.79	0.737	3.43	7.06	25.3	14.49	
12/5/2012	MW-7									
3/21/2013	MW-7	1.0	14	9.51	0.726	5.97	7.28	54.4	12.43	
6/11/2013	MW-7								9.57	
9/16/2013	MW-7	0.43	18	14.00	0.686		7.35	33.6	12.29	
12/4/2013	MW-7								13.19	
3/24/2014	MW-7	0.42	18	8.53	0.498	6.37	7.06	116.4	13.45	
6/23/2014	MW-7								9.80	
9/24/2014	MW-7	1.6	15						13.03	
12/22/2014	MW-7								13.79	
3/10/2015	MW-7	0.88	7.2	9.03	0.545	2.07	7.22	112.3	14.55	
6/18/2015	MW-7								13.01	
9/22/2015	MW-7	1.3	11	11.73	0.547	3.30	6.43	8.4	13.29	
12/21/2015	MW-7								11.81	
3/21/2016	MW-7	1.7	11	8.61	0.551	2.79	7.26	30.4	11.76	

Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
5/26/2009	MW-7A	2.9	48	9.02	0.675	6.49	7.51	60.4	8.65	
7/9/2009	MW-7A								10.38	
9/22/2009	MW-7A	2.7	48	12.58	0.775	4.87	7.21	62.80	13.09	
12/2/2009	MW-7A	3.10	42	11.67	0.793	3.04	7.01	48	12.73	
3/23/2010	MW-7A	2.5	31	9.45	0.757	6.67	7.10	307.3	11.73	
6/22/2010	MW-7A	2.8	29	10.94	0.980	4.69	6.25	-95.7	8.72	
9/15/2010	MW-7A	2.8	27	14.77	0.752	2.23	8.95	-50.20	10.26	
12/14/2010	MW-7A	3	30	11.05	0.546	5.16	7.19	13.10	12.63	
3/9/2011	MW-7A	2.2	34	6.32	0.683	4.31	7.10	74.9	12.14	
4/12/2011	MW-7A			11.2	0.890	0.15	7.29	58.6	10.61	
6/28/2011	MW-7A	<0.026>	41	11.22	0.668	4.01	6.97	17.7	11.44	
9/20/2011	MW-7A	3.0	35	11.16	0.629	2.89	7.09	-41.3	13.50	
12/5/2011	MW-7A	2.1	34	11.32	0.694	5.00	7.71	-153.5	12.97	
3/6/2012	MW-7A	1.3	27	11.39	0.570	2.92	6.85	155.0	12.97	
3/26/2012	MW-7A								12.37	
6/6/2012	MW-7A	1.2	26	10.22	0.493	1.06	7.17	-115.4	11.94	
9/24/2012	MW-7A	1.1	24	11.15	0.680	0.75	7.07	20.5	14.31	
12/5/2012	MW-7A	1.1	25							
3/21/2013	MW-7A	1.0	28	11.41	0.741	0.50	7.20	28.1	12.32	
6/11/2013	MW-7A	1.9	33						9.43	
9/16/2013	MW-7A	1.9	30	11.70	0.825		7.20	21.3	12.17	
12/4/2013	MW-7A	2.2	30						13.06	
3/24/2014	MW-7A	1.9	34	11.38	0.591	1.05	6.53	28.2	13.38	
6/23/2014	MW-7A								9.82	
9/24/2014	MW-7A	3.6	36						12.91	
12/22/2014	MW-7A	2.5	34						13.67	
3/10/2015	MW-7A	2.1	33	11.22	0.679	1.33	7.06	71.1	14.41	
6/18/2015	MW-7A								12.88	
9/22/2015	MW-7A	1.6	41	9.99	0.547	1.72	6.79	-12.1	13.17	
12/21/2015	MW-7A								11.75	
3/21/2016	MW-7A	1.3	41	11.63	0.586	2.37	7.19	295	11.66	
12/2/2009	MW-7A/Dup1	3.10	41							
3/23/2010	MW-7A/Dup1	2.5	31							

Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
5/26/2009	MW-7B	<0.025	68	9.48	0.739	2.44	7.71	68.8	8.65	
7/9/2009	MW-7B								10.36	
9/22/2009	MW-7B	<0.025	57	13.48	0.846	2.23	7.42	84.20	13.06	
12/2/2009	MW-7B	<0.025	68	12.03	0.865	0.27	7.40	81.4	12.69	
3/23/2010	MW-7B	<0.025	68	8.94	0.849	8.66	7.51	310.9	11.70	
6/22/2010	MW-7B	<0.025	64	11.31	1.252	4.98	6.50	-113.5	8.73	
9/15/2010	MW-7B	<0.025	73	14.80	1.047	0.61	9.44	-101.50	10.25	
12/14/2010	MW-7B	<0.025	71	10.35	0.708	2.84	7.33	16.20	12.61	
3/9/2011	MW-7B	<0.025	57	8.30	0.896	7.51	7.61	65.4	12.11	
4/12/2011	MW-7B			11.41	1.289	0.00	7.47	-41.4	10.6	
6/28/2011	MW-7B	<0.074>	63	10.87	0.995	2.88	7.19	16.7	11.43	
9/20/2011	MW-7B	<0.050	63	11.41	0.920	1.08	7.26	-72.9	13.49	
12/5/2011	MW-7B	<0.025	57	11.68	0.839	4.64	7.90	-39.2	12.42	
3/6/2012	MW-7B	<0.050	76	11.37	0.808	1.89	7.00	145.6	13.95	
3/26/2012	MW-7B								12.35	
6/6/2012	MW-7B								11.92	
9/24/2012	MW-7B	<0.025	72	11.02	1.006	1.17	7.16	33.8	14.25	
12/5/2012	MW-7B									
3/21/2013	MW-7B	0.41	62	11.48	1.090	0.44	7.23	23.3	12.31	
6/11/2013	MW-7B								9.42	
9/16/2013	MW-7B	<0.041>	61	11.70	1.264		7.34	-9.1	12.14	
12/4/2013	MW-7B								13.05	
3/24/2014	MW-7B	<0.027>	76	11.42	0.765	1	6.94	40.5	13.35	
6/23/2014	MW-7B								9.81	
9/24/2014	MW-7B	<0.040>	69						12.89	
12/22/2014	MW-7B								13.64	
3/10/2015	MW-7B	<0.025	76	11.15	0.809	1.96	7.24	43.1	14.39	
6/18/2015	MW-7B								12.85	
9/22/2015	MW-7B	<0.086>	83	10.22	0.696	2.10	6.86	-2.7	13.16	
12/21/2015	MW-7B								11.73	
3/21/2016	MW-7B	0.84	65	11.51	0.754	1.14	7.22	29.2	11.69	

Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
12/22/2014	MW-9								11.49	
3/10/2015	MW-9	0.17	69	8.73	0.903	3.21	7.06	65.9	12.19	
6/18/2015	MW-9								10.69	
9/22/2015	MW-9	0.16	100	11.47	0.980	1.17	6.86	-1.5	11.02	
12/21/2015	MW-9								9.51	
3/21/2016	MW-9	0.42	59	8.46	0.491	2.9	7.17	200.3	9.52	
12/22/2014	MW-9A								11.74	
3/10/2015	MW-9A	<0.025	60	11.24	0.891	2.03	7.10	-49	12.41	
6/18/2015	MW-9A								10.94	
9/22/2015	MW-9A	<0.029>	62	10.51	0.803	0.40	6.92	-18.8	11.32	
12/21/2015	MW-9A								9.74	
3/21/2016	MW-9A	<0.019	61	11.95	0.753	2.15	7.09	81.8	9.75	

Groundwater Field Data
DB Oak
Fort Atkinson, WI
3/21/2016

Date	Location	Nitrate as N (mg/L)	Sulfate as SO4 (mg/L)	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Depth To Water	Remarks
5/26/2009	MW-6A			9.90	0.754	1.97	7.45	39.4	13.24	
7/9/2009	MW-6A								15	
9/22/2009	MW-6A			13.66	0.797	4.15	7.31	53.40	17.56	
12/2/2009	MW-6A			13.32	0.79	1.28	7.35	-4.3	17.32	
3/23/2010	MW-6A			10.57	0.735	6.80	7.15	212.3	16.16	
6/22/2010	MW-6A								14.49	
9/15/2010	MW-6A								14.85	
12/14/2010	MW-6A								17.21	
3/9/2011	MW-6A								16.48	
4/12/2011	MW-6A			12.57	0.873	0.84	7.76	19	14.82	
6/28/2011	MW-6A								15.93	
9/20/2011	MW-6A			12.25	0.629	0.86	7.36	-3.0	17.81	
12/5/2011	MW-6A			12.80	0.664	0.53	9.10	-152.4	17.34	
3/6/2012	MW-6A			12.77	0.643	5.72	7.24	5.5	NA	WLI malfunction
3/26/2012	MW-6A								16.70	
6/6/2012	MW-6A								16.30	
9/24/2012	MW-6A			12.63	0.824	1.02	7.22	-9.0	18.40	
12/5/2012	MW-6A									
3/21/2013	MW-6A			12.63	0.823	2.59	7.43	74.9	16.45	
6/11/2013	MW-6A								13.58	
9/16/2013	MW-6A								16.69	
12/4/2013	MW-6A								17.42	
3/24/2014	MW-6A								17.63	
6/23/2014	MW-6A								14.43	
9/24/2014	MW-6A								17.25	
12/22/2014	MW-6A								17.98	
3/10/2015	MW-6A								18.73	
6/18/2015	MW-6A								17.21	
9/22/2015	MW-6A								17.52	
12/21/2015	MW-6A								15.96	
3/21/2016	MW-6A								15.90	

Appendix B

Purge Water and Soil Cutting Disposal Documentation



SHIPPING DOCUMENT	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Shipping Document Tracking Number ZZ 00390079		
5. Generator's Name and Mailing Address Shannon + Wilson 2110 Lorraine Lane Madison, WI 53713		Generator's Site Address (if different than mailing address) DB Oakes 700-710 Oak St. Fort Atkinson, WI 53538				
6. Transporter 1 Company Name Veolia ES Ind. Services		U.S. EPA ID Number				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address WWTP Burlington, WI.		U.S. EPA ID Number				
Facility's Phone:						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type	11. Total Quantity	12. Unit Wt./Vol.	13. Codes
	1.	purged ground water		500 gals		
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information						
15. GENERATOR S/OFFEROR S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Offoror's Printed/Typed Name Larry W. Henschel		Signature <i>Larry W. Henschel</i>		Month Day Year 10/20/15		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Shipment						
Transporter 1 Printed/Typed Name Larry W. Henschel		Signature <i>Larry W. Henschel</i>		Month Day Year 10/20/15		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Shipping Document Tracking Number:						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a						
Printed/Typed Name		Signature		Month Day Year		

DESIGNATED FACILITY TO GENERATOR



SHIPPING DOCUMENT	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Shipping Document Tracking Number ZZ 00447498		
5. Generator's Name and Mailing Address DB Oates Property Fort Atkinson WI Generator's Phone: _____						
6. Transporter 1 Company Name Veolia ES Industrial Services Inc U.S. EPA ID Number: _____						
7. Transporter 2 Company Name U.S. EPA ID Number: _____						
8. Designated Facility Name and Site Address Burlington WWTP Burlington WI Facility's Phone: _____						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type	11. Total Quantity	12. Unit Wt./Vol.	13. Codes
	1.	purged Ground Water		750	G	
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information						
15. GENERATOR S/OFFEROR S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Officer's Printed/Typed Name Neil L McClellan		Signature <i>Neil L McClellan</i>		Month	Day	Year
				3	31	16
TRANSPORTER INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____					
	Transporter signature (for exports only): _____ Date leaving U.S.: _____					
	17. Transporter Acknowledgment of Receipt of Shipment					
Transporter 1 Printed/Typed Name Paul Olson		Signature <i>Paul Olson</i>		Month	Day	Year
				3	31	16
Transporter 2 Printed/Typed Name		Signature		Month	Day	Year
DESIGNATED FACILITY	18. Discrepancy					
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
	Shipping Document Tracking Number: _____					
	18b. Alternate Facility (or Generator) U.S. EPA ID Number: _____					
	Facility's Phone: _____					
18c. Signature of Alternate Facility (or Generator)				Month	Day	Year
19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a						
Printed/Typed Name		Signature		Month	Day	Year

DESIGNATED FACILITY TO GENERATOR

4251

SPECIAL WASTE MANIFEST DISPOSAL TICKET

ADVANCED DISPOSAL SERVICES MALLARD RIDGE LANDFILL, INC.



Advanced Disposal

34816.039

BILL TO: Veolia ES Industrial Services Inc

TRANSPORTER: Veolia ES Industrial Services Inc

GENERATOR: DB Oaks Property

* GENERATOR'S SIGNATURE: Mu + McElroy 03/31/16
Date

WASTE DESCRIPTION: Drums of Soil (8)

PROFILE #: MM RL 2015-012

ACCEPTED BY: Bambi Becker 5/4/16
Date

DRIVER'S SIGNATURE: [Signature] 3/4/16
Date

2.92 TN

TRUCK NO. 35 TONS/YARDS

Appendix C

Laboratory Reports June 2015 Groundwater Samples

ANALYTICAL REPORT

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 242486

NLS Customer: 104721

Fax: 608 442 9013 **Phone:** 608 442 5223

Project: DB Oak/ 42-1-37320

GP-100 15' NLS ID: 866640

COC: 179099:1 Matrix: GW
 Collected: 06/16/15 08:03 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/24/15	SW846 8260C	721026460

GP-101 14' NLS ID: 866641

COC: 179099:2 Matrix: GW
 Collected: 06/16/15 08:35 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

GP-102 35' NLS ID: 866642

COC: 179099:3 Matrix: GW
 Collected: 06/17/15 19:05 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

GP-103 15' NLS ID: 866643

COC: 179099:4 Matrix: GW
 Collected: 06/18/15 07:05 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

GP-103 35' NLS ID: 866644

COC: 179099:5 Matrix: GW
 Collected: 06/17/15 17:55 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/24/15	SW846 8260C	721026460

GP-104 14' NLS ID: 866645

COC: 179099:6 Matrix: GW
 Collected: 06/16/15 10:08 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/24/15	SW846 8260C	721026460

GP-105 15' NLS ID: 866646

COC: 179099:7 Matrix: GW
 Collected: 06/16/15 13:10 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/24/15	SW846 8260C	721026460

GP-106 15' NLS ID: 866647

COC: 179099:8 Matrix: GW
 Collected: 06/16/15 14:17 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/24/15	SW846 8260C	721026460

GP-106 35' NLS ID: 866648

COC: 179099:9 Matrix: GW
 Collected: 06/16/15 13:55 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/24/15	SW846 8260C	721026460

ANALYTICAL REPORT

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 242486

NLS Customer: 104721

Fax: 608 442 9013 **Phone:** 608 442 5223

Project: DB Oak/ 42-1-37320

GP-107 20' NLS ID: 866649

COC: 179099:10 Matrix: GW
 Collected: 06/17/15 13:30 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/24/15	SW846 8260C	721026460

GP-107 35' NLS ID: 866650

COC: 179101:1 Matrix: GW
 Collected: 06/16/15 15:05 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/24/15	SW846 8260C	721026460

GP-108 18' NLS ID: 866651

COC: 179101:2 Matrix: GW
 Collected: 06/16/15 17:48 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/24/15	SW846 8260C	721026460

GP-108 35' NLS ID: 866652

COC: 179101:3 Matrix: GW
 Collected: 06/16/15 17:18 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/24/15	SW846 8260C	721026460

GP-109 18' NLS ID: 866653

COC: 179101:4 Matrix: GW
 Collected: 06/17/15 09:55 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/24/15	SW846 8260C	721026460

GP-111 17' NLS ID: 866654

COC: 179101:6 Matrix: GW
 Collected: 06/17/15 12:47 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

GP-111 35' NLS ID: 866655

COC: 179101:7 Matrix: GW
 Collected: 06/17/15 13:15 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/26/15	SW846 8260C	721026460

GP-112 35' NLS ID: 866656

COC: 179101:8 Matrix: GW
 Collected: 06/17/15 18:40 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

GP-113 15' NLS ID: 866657

COC: 179101:9 Matrix: GW
 Collected: 06/17/15 14:47 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

ANALYTICAL REPORT

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 242486

NLS Customer: 104721

Fax: 608 442 9013 **Phone:** 608 442 5223

Project: DB Oak/ 42-1-37320

GP-113 35' NLS ID: 866658

COC: 179101:10 Matrix: GW
 Collected: 06/17/15 15:30 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

TW-02 NLS ID: 866659

COC: 178797:1 Matrix: GW
 Collected: 06/18/15 13:25 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/29/15	SW846 8260C	721026460

TW-03 NLS ID: 866660

COC: 178797:2 Matrix: GW
 Collected: 06/18/15 10:45 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

MW-2 NLS ID: 866661

COC: 178797:3 Matrix: GW
 Collected: 06/18/15 09:40 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/29/15	SW846 8260C	721026460

MW-2A NLS ID: 866662

COC: 178797:4 Matrix: GW
 Collected: 06/18/15 09:35 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

MW-3 NLS ID: 866663

COC: 178797:5 Matrix: GW
 Collected: 06/18/15 13:00 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

MW-3A NLS ID: 866664

COC: 178797:6 Matrix: GW
 Collected: 06/18/15 13:05 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

MW-3B NLS ID: 866665

COC: 178797:7 Matrix: GW
 Collected: 06/18/15 12:27 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

MW-4 NLS ID: 866666

COC: 178797:8 Matrix: GW
 Collected: 06/18/15 10:35 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

ANALYTICAL REPORT

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 242486

NLS Customer: 104721

Fax: 608 442 9013 **Phone:** 608 442 5223

Project: DB Oak/ 42-1-37320

MW-7A NLS ID: 866667

COC: 178797:9 Matrix: GW
 Collected: 06/18/15 08:58 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

Dup #1 NLS ID: 866668

COC: 178797:10 Matrix: GW
 Collected: 06/18/15 09:36 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/29/15	SW846 8260C	721026460

MW-9 NLS ID: 866669

COC: 178798:1 Matrix: GW
 Collected: 06/18/15 08:15 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

MW-9A NLS ID: 866670

COC: 178798:2 Matrix: GW
 Collected: 06/18/15 08:10 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

Storm Sewer North NLS ID: 866671

COC: 178798:4 Matrix: SW
 Collected: 06/18/15 14:00 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/29/15	SW846 8260C	721026460

Outfall At SP-01 NLS ID: 866672

COC: 178798:5 Matrix: SW
 Collected: 06/18/15 14:10 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/29/15	SW846 8260C	721026460

South of SP-01 NLS ID: 866673

COC: 178798:6 Matrix: SW
 Collected: 06/18/15 14:20 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

GP-114 15 NLS ID: 866674

COC: 179100:1 Matrix: GW
 Collected: 06/18/15 06:50 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

GP-114 35 NLS ID: 866675

COC: 179100:2 Matrix: GW
 Collected: 06/17/15 16:30 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

NORTHERN LAKE SERVICE, INC.
 Analytical Laboratory and Environmental Services
 400 North Lake Avenue - Crandon, WI 54520
 Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
 WDATCP Laboratory Certification No. 105-330
 EPA Laboratory ID No. WI00034

Printed: 06/30/15 Code: NNNN-S Page 5 of 5

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 242486

NLS Customer: 104721

Fax: 608 442 9013 **Phone:** 608 442 5223

Project: DB Oak/ 42-1-37320

GP Dup #1 NLS ID: 866676

COC: 179100:3 Matrix: GW
 Collected: 06/17/15 13:25 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

GP Dup #2 NLS ID: 866677

COC: 179100:4 Matrix: GW
 Collected: 06/17/15 14:50 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

Trip Blank NLS ID: 866678

COC: 179100:5 Matrix: TB
 Collected: 06/17/15 00:00 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	NA	721026460

GP 109 NLS ID: 866679

Matrix: GW
 Collected: 06/18/15 07:25 Received: 06/19/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					06/25/15	SW846 8260C	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

LOD = Limit of Detection LOQ = Limit of Quantitation ND = Not Detected (< LOD) 1000 ug/L = 1 mg/L
 DWB = Dry Weight Basis NA = Not Applicable %DWB = (mg/kg DWB) / 10000
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
 R. T. Krueger
 President

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 1 of 22

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866640 GP-100 15' Collected: 06/16/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.29	1.0	
Bromobenzene	ND	ug/L	1	0.37	1.3	
Bromochloromethane	ND	ug/L	1	0.24	0.85	
Bromodichloromethane	ND	ug/L	1	0.18	0.62	
Bromoform	ND	ug/L	1	0.25	0.89	
Bromomethane	ND	ug/L	1	0.12	0.43	
n-Butylbenzene	ND	ug/L	1	0.20	0.69	
sec-Butylbenzene	ND	ug/L	1	0.22	0.79	
tert-Butylbenzene	ND	ug/L	1	0.28	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82	
Chlorobenzene	ND	ug/L	1	0.19	0.69	
Chloroethane	ND	ug/L	1	1.2	4.4	
Chloroform	ND	ug/L	1	0.25	0.90	
Chloromethane	ND	ug/L	1	0.21	0.76	
2-Chlorotoluene	ND	ug/L	1	0.27	0.97	
4-Chlorotoluene	ND	ug/L	1	0.28	0.99	
Dibromochloromethane	ND	ug/L	1	0.25	0.89	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.24	0.86	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.61	
Dibromomethane	ND	ug/L	1	0.23	0.81	
1,2-Dichlorobenzene	ND	ug/L	1	0.18	0.63	
1,3-Dichlorobenzene	ND	ug/L	1	0.23	0.81	
1,4-Dichlorobenzene	ND	ug/L	1	0.33	1.2	
Dichlorodifluoromethane	ND	ug/L	1	0.28	0.98	
1,1-Dichloroethane	ND	ug/L	1	0.25	0.87	
1,2-Dichloroethane	ND	ug/L	1	0.33	1.2	
1,1-Dichloroethene	ND	ug/L	1	0.25	0.89	
cis-1,2-Dichloroethene	ND	ug/L	1	0.30	1.1	
trans-1,2-Dichloroethene	ND	ug/L	1	0.25	0.89	
1,2-Dichloropropane	ND	ug/L	1	0.21	0.76	
1,3-Dichloropropane	ND	ug/L	1	0.29	1.0	
2,2-Dichloropropane	ND	ug/L	1	0.27	0.95	
1,1-Dichloropropene	ND	ug/L	1	0.29	1.0	
cis-1,3-Dichloropropene	ND	ug/L	1	0.21	0.74	
trans-1,3-Dichloropropene	ND	ug/L	1	0.17	0.58	
Ethylbenzene	[0.26]	ug/L	1	0.22	0.79	
Hexachlorobutadiene	ND	ug/L	1	0.23	0.83	
Isopropylbenzene	ND	ug/L	1	0.24	0.86	
p-Isopropyltoluene	ND	ug/L	1	0.21	0.75	
Methylene chloride	ND	ug/L	1	0.25	0.90	
Naphthalene	ND	ug/L	1	0.34	1.2	
n-Propylbenzene	ND	ug/L	1	0.27	0.95	
ortho-Xylene	ND	ug/L	1	0.26	0.91	
Styrene	ND	ug/L	1	0.19	0.64	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.22	0.77	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	1.0	
Tetrachloroethene	ND	ug/L	1	0.21	0.76	
Toluene	[0.20]	ug/L	1	0.18	0.63	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.19	0.67	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.60	
1,1,1-Trichloroethane	ND	ug/L	1	0.26	0.93	
1,1,2-Trichloroethane	ND	ug/L	1	0.24	0.84	
Trichloroethene	ND	ug/L	1	0.31	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866640 GP-100 15' Collected: 06/16/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.29	1.0	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.84	
1,2,4-Trimethylbenzene	[0.52]	ug/L	1	0.21	0.73	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.92	
Vinyl chloride	7.5	ug/L	1	0.16	0.55	
meta,para-Xylene	ND	ug/L	1	0.42	1.5	
MTBE	ND	ug/L	1	0.28	1.0	
Isopropyl Ether	ND	ug/L	1	0.24	0.84	
Dibromofluoromethane (SURR)	104%					S
Toluene-d8 (SURR)	98%					S
1-Bromo-4-Fluorobenzene (SURR)	100%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 3 of 22

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866641 GP-101 14' Collected: 06/16/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	[7.2]	ug/L	20	5.9	20	
Bromobenzene	ND	ug/L	20	7.3	26	
Bromochloromethane	ND	ug/L	20	4.8	17	
Bromodichloromethane	ND	ug/L	20	3.5	12	
Bromoform	ND	ug/L	20	5.0	18	
Bromomethane	ND	ug/L	20	2.5	8.6	
n-Butylbenzene	[4.0]	ug/L	20	3.9	14	
sec-Butylbenzene	ND	ug/L	20	4.5	16	
tert-Butylbenzene	ND	ug/L	20	5.7	20	
Carbon Tetrachloride	ND	ug/L	20	4.6	16	
Chlorobenzene	ND	ug/L	20	3.9	14	
Chloroethane	ND	ug/L	20	25	87	
Chloroform	ND	ug/L	20	5.1	18	
Chloromethane	ND	ug/L	20	4.3	15	
2-Chlorotoluene	ND	ug/L	20	5.4	19	
4-Chlorotoluene	ND	ug/L	20	5.6	20	
Dibromochloromethane	ND	ug/L	20	5.0	18	
1,2-Dibromo-3-Chloropropane	ND	ug/L	20	4.9	17	
1,2-Dibromoethane	ND	ug/L	20	3.5	12	
Dibromomethane	ND	ug/L	20	4.6	16	
1,2-Dichlorobenzene	ND	ug/L	20	3.6	13	
1,3-Dichlorobenzene	ND	ug/L	20	4.6	16	
1,4-Dichlorobenzene	ND	ug/L	20	6.6	23	
Dichlorodifluoromethane	ND	ug/L	20	5.5	20	
1,1-Dichloroethane	ND	ug/L	20	4.9	17	
1,2-Dichloroethane	ND	ug/L	20	6.5	23	
1,1-Dichloroethene	ND	ug/L	20	5.0	18	
cis-1,2-Dichloroethene	[9.7]	ug/L	20	6.0	21	
trans-1,2-Dichloroethene	ND	ug/L	20	5.0	18	
1,2-Dichloropropane	ND	ug/L	20	4.3	15	
1,3-Dichloropropane	ND	ug/L	20	5.7	20	
2,2-Dichloropropane	ND	ug/L	20	5.3	19	
1,1-Dichloropropene	ND	ug/L	20	5.7	20	
cis-1,3-Dichloropropene	ND	ug/L	20	4.2	15	
trans-1,3-Dichloropropene	ND	ug/L	20	3.4	12	
Ethylbenzene	24	ug/L	20	4.4	16	
Hexachlorobutadiene	ND	ug/L	20	4.7	17	
Isopropylbenzene	ND	ug/L	20	4.8	17	
p-Isopropyltoluene	ND	ug/L	20	4.2	15	
Methylene chloride	ND	ug/L	20	5.1	18	
Naphthalene	[17]	ug/L	20	6.8	24	
n-Propylbenzene	21	ug/L	20	5.3	19	
ortho-Xylene	[7.5]	ug/L	20	5.1	18	
Styrene	ND	ug/L	20	3.7	13	
1,1,1,2-Tetrachloroethane	ND	ug/L	20	4.3	15	
1,1,2,2-Tetrachloroethane	ND	ug/L	20	5.7	20	
Tetrachloroethene	ND	ug/L	20	4.3	15	
Toluene	ND	ug/L	20	3.5	13	
1,2,3-Trichlorobenzene	ND	ug/L	20	3.8	13	
1,2,4-Trichlorobenzene	ND	ug/L	20	3.5	12	
1,1,1-Trichloroethane	ND	ug/L	20	5.3	19	
1,1,2-Trichloroethane	ND	ug/L	20	4.8	17	
Trichloroethene	ND	ug/L	20	6.1	22	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866641 GP-101 14' Collected: 06/16/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	20	5.7	20	
1,2,3-Trichloropropane	ND	ug/L	20	4.7	17	
1,2,4-Trimethylbenzene	130	ug/L	20	4.1	15	
1,3,5-Trimethylbenzene	44	ug/L	20	5.2	18	
Vinyl chloride	44	ug/L	20	3.1	11	
meta,para-Xylene	[26]	ug/L	20	8.3	29	
MTBE	ND	ug/L	20	5.7	20	
Isopropyl Ether	ND	ug/L	20	4.7	17	
Dibromofluoromethane (SURR)	105%					S
Toluene-d8 (SURR)	110%					S
1-Bromo-4-Fluorobenzene (SURR)	84%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 5 of 22

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866642 GP-102 35' Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.29	1.0	
Bromobenzene	ND	ug/L	1	0.37	1.3	
Bromochloromethane	ND	ug/L	1	0.24	0.85	
Bromodichloromethane	ND	ug/L	1	0.18	0.62	
Bromoform	ND	ug/L	1	0.25	0.89	
Bromomethane	ND	ug/L	1	0.12	0.43	
n-Butylbenzene	ND	ug/L	1	0.20	0.69	
sec-Butylbenzene	ND	ug/L	1	0.22	0.79	
tert-Butylbenzene	ND	ug/L	1	0.28	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82	
Chlorobenzene	ND	ug/L	1	0.19	0.69	
Chloroethane	ND	ug/L	1	1.2	4.4	
Chloroform	ND	ug/L	1	0.25	0.90	
Chloromethane	ND	ug/L	1	0.21	0.76	
2-Chlorotoluene	ND	ug/L	1	0.27	0.97	
4-Chlorotoluene	ND	ug/L	1	0.28	0.99	
Dibromochloromethane	ND	ug/L	1	0.25	0.89	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.24	0.86	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.61	
Dibromomethane	ND	ug/L	1	0.23	0.81	
1,2-Dichlorobenzene	ND	ug/L	1	0.18	0.63	
1,3-Dichlorobenzene	ND	ug/L	1	0.23	0.81	
1,4-Dichlorobenzene	ND	ug/L	1	0.33	1.2	
Dichlorodifluoromethane	ND	ug/L	1	0.28	0.98	
1,1-Dichloroethane	ND	ug/L	1	0.25	0.87	
1,2-Dichloroethane	ND	ug/L	1	0.33	1.2	
1,1-Dichloroethene	ND	ug/L	1	0.25	0.89	
cis-1,2-Dichloroethene	[0.53]	ug/L	1	0.30	1.1	
trans-1,2-Dichloroethene	ND	ug/L	1	0.25	0.89	
1,2-Dichloropropane	ND	ug/L	1	0.21	0.76	
1,3-Dichloropropane	ND	ug/L	1	0.29	1.0	
2,2-Dichloropropane	ND	ug/L	1	0.27	0.95	
1,1-Dichloropropene	ND	ug/L	1	0.29	1.0	
cis-1,3-Dichloropropene	ND	ug/L	1	0.21	0.74	
trans-1,3-Dichloropropene	ND	ug/L	1	0.17	0.58	
Ethylbenzene	ND	ug/L	1	0.22	0.79	
Hexachlorobutadiene	ND	ug/L	1	0.23	0.83	
Isopropylbenzene	ND	ug/L	1	0.24	0.86	
p-Isopropyltoluene	ND	ug/L	1	0.21	0.75	
Methylene chloride	ND	ug/L	1	0.25	0.90	
Naphthalene	ND	ug/L	1	0.34	1.2	
n-Propylbenzene	ND	ug/L	1	0.27	0.95	
ortho-Xylene	ND	ug/L	1	0.26	0.91	
Styrene	ND	ug/L	1	0.19	0.64	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.22	0.77	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	1.0	
Tetrachloroethene	[0.23]	ug/L	1	0.21	0.76	
Toluene	[0.29]	ug/L	1	0.18	0.63	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.19	0.67	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.60	
1,1,1-Trichloroethane	ND	ug/L	1	0.26	0.93	
1,1,2-Trichloroethane	ND	ug/L	1	0.24	0.84	
Trichloroethene	ND	ug/L	1	0.31	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866642 GP-102 35' Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.29	1.0	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.84	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.92	
Vinyl chloride	ND	ug/L	1	0.16	0.55	
meta,para-Xylene	ND	ug/L	1	0.42	1.5	
MTBE	ND	ug/L	1	0.28	1.0	
Isopropyl Ether	ND	ug/L	1	0.24	0.84	
Dibromofluoromethane (SURR)	117%					S
Toluene-d8 (SURR)	118%					S
1-Bromo-4-Fluorobenzene (SURR)	107%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 7 of 22

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866643 GP-103 15' Collected: 06/18/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.29	1.0	
Bromobenzene	ND	ug/L	1	0.37	1.3	
Bromochloromethane	ND	ug/L	1	0.24	0.85	
Bromodichloromethane	ND	ug/L	1	0.18	0.62	
Bromoform	ND	ug/L	1	0.25	0.89	
Bromomethane	ND	ug/L	1	0.12	0.43	
n-Butylbenzene	ND	ug/L	1	0.20	0.69	
sec-Butylbenzene	ND	ug/L	1	0.22	0.79	
tert-Butylbenzene	ND	ug/L	1	0.28	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82	
Chlorobenzene	ND	ug/L	1	0.19	0.69	
Chloroethane	ND	ug/L	1	1.2	4.4	
Chloroform	ND	ug/L	1	0.25	0.90	
Chloromethane	ND	ug/L	1	0.21	0.76	
2-Chlorotoluene	ND	ug/L	1	0.27	0.97	
4-Chlorotoluene	ND	ug/L	1	0.28	0.99	
Dibromochloromethane	ND	ug/L	1	0.25	0.89	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.24	0.86	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.61	
Dibromomethane	ND	ug/L	1	0.23	0.81	
1,2-Dichlorobenzene	ND	ug/L	1	0.18	0.63	
1,3-Dichlorobenzene	ND	ug/L	1	0.23	0.81	
1,4-Dichlorobenzene	ND	ug/L	1	0.33	1.2	
Dichlorodifluoromethane	ND	ug/L	1	0.28	0.98	
1,1-Dichloroethane	ND	ug/L	1	0.25	0.87	
1,2-Dichloroethane	ND	ug/L	1	0.33	1.2	
1,1-Dichloroethene	ND	ug/L	1	0.25	0.89	
cis-1,2-Dichloroethene	60	ug/L	5	1.5	5.3	
trans-1,2-Dichloroethene	1.8	ug/L	1	0.25	0.89	
1,2-Dichloropropane	ND	ug/L	1	0.21	0.76	
1,3-Dichloropropane	ND	ug/L	1	0.29	1.0	
2,2-Dichloropropane	ND	ug/L	1	0.27	0.95	
1,1-Dichloropropene	ND	ug/L	1	0.29	1.0	
cis-1,3-Dichloropropene	ND	ug/L	1	0.21	0.74	
trans-1,3-Dichloropropene	ND	ug/L	1	0.17	0.58	
Ethylbenzene	ND	ug/L	1	0.22	0.79	
Hexachlorobutadiene	ND	ug/L	1	0.23	0.83	
Isopropylbenzene	ND	ug/L	1	0.24	0.86	
p-Isopropyltoluene	ND	ug/L	1	0.21	0.75	
Methylene chloride	ND	ug/L	1	0.25	0.90	
Naphthalene	ND	ug/L	1	0.34	1.2	
n-Propylbenzene	ND	ug/L	1	0.27	0.95	
ortho-Xylene	ND	ug/L	1	0.26	0.91	
Styrene	ND	ug/L	1	0.19	0.64	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.22	0.77	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	1.0	
Tetrachloroethene	ND	ug/L	1	0.21	0.76	
Toluene	[0.44]	ug/L	1	0.18	0.63	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.19	0.67	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.60	
1,1,1-Trichloroethane	ND	ug/L	1	0.26	0.93	
1,1,2-Trichloroethane	ND	ug/L	1	0.24	0.84	
Trichloroethene	[0.93]	ug/L	1	0.31	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866643 GP-103 15' Collected: 06/18/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.29	1.0	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.84	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.92	
Vinyl chloride	2.5	ug/L	1	0.16	0.55	
meta,para-Xylene	ND	ug/L	1	0.42	1.5	
MTBE	ND	ug/L	1	0.28	1.0	
Isopropyl Ether	ND	ug/L	1	0.24	0.84	
Dibromofluoromethane (SURR)	100%					S
Toluene-d8 (SURR)	113%					S
1-Bromo-4-Fluorobenzene (SURR)	108%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 9 of 22

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866644 GP-103 35' Collected: 06/17/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.29	1.0	
Bromobenzene	ND	ug/L	1	0.37	1.3	
Bromochloromethane	ND	ug/L	1	0.24	0.85	
Bromodichloromethane	ND	ug/L	1	0.18	0.62	
Bromoform	[0.33]	ug/L	1	0.25	0.89	
Bromomethane	ND	ug/L	1	0.12	0.43	
n-Butylbenzene	ND	ug/L	1	0.20	0.69	
sec-Butylbenzene	ND	ug/L	1	0.22	0.79	
tert-Butylbenzene	ND	ug/L	1	0.28	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82	
Chlorobenzene	ND	ug/L	1	0.19	0.69	
Chloroethane	ND	ug/L	1	1.2	4.4	
Chloroform	ND	ug/L	1	0.25	0.90	
Chloromethane	ND	ug/L	1	0.21	0.76	
2-Chlorotoluene	ND	ug/L	1	0.27	0.97	
4-Chlorotoluene	ND	ug/L	1	0.28	0.99	
Dibromochloromethane	ND	ug/L	1	0.25	0.89	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.24	0.86	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.61	
Dibromomethane	ND	ug/L	1	0.23	0.81	
1,2-Dichlorobenzene	ND	ug/L	1	0.18	0.63	
1,3-Dichlorobenzene	ND	ug/L	1	0.23	0.81	
1,4-Dichlorobenzene	ND	ug/L	1	0.33	1.2	
Dichlorodifluoromethane	ND	ug/L	1	0.28	0.98	
1,1-Dichloroethane	ND	ug/L	1	0.25	0.87	
1,2-Dichloroethane	ND	ug/L	1	0.33	1.2	
1,1-Dichloroethene	ND	ug/L	1	0.25	0.89	
cis-1,2-Dichloroethene	[0.39]	ug/L	1	0.30	1.1	
trans-1,2-Dichloroethene	ND	ug/L	1	0.25	0.89	
1,2-Dichloropropane	ND	ug/L	1	0.21	0.76	
1,3-Dichloropropane	ND	ug/L	1	0.29	1.0	
2,2-Dichloropropane	ND	ug/L	1	0.27	0.95	
1,1-Dichloropropene	ND	ug/L	1	0.29	1.0	
cis-1,3-Dichloropropene	ND	ug/L	1	0.21	0.74	
trans-1,3-Dichloropropene	ND	ug/L	1	0.17	0.58	
Ethylbenzene	ND	ug/L	1	0.22	0.79	
Hexachlorobutadiene	ND	ug/L	1	0.23	0.83	
Isopropylbenzene	ND	ug/L	1	0.24	0.86	
p-Isopropyltoluene	ND	ug/L	1	0.21	0.75	
Methylene chloride	ND	ug/L	1	0.25	0.90	
Naphthalene	ND	ug/L	1	0.34	1.2	
n-Propylbenzene	ND	ug/L	1	0.27	0.95	
ortho-Xylene	ND	ug/L	1	0.26	0.91	
Styrene	ND	ug/L	1	0.19	0.64	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.22	0.77	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	1.0	
Tetrachloroethene	ND	ug/L	1	0.21	0.76	
Toluene	[0.20]	ug/L	1	0.18	0.63	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.19	0.67	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.60	
1,1,1-Trichloroethane	ND	ug/L	1	0.26	0.93	
1,1,2-Trichloroethane	ND	ug/L	1	0.24	0.84	
Trichloroethene	ND	ug/L	1	0.31	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866644 GP-103 35' Collected: 06/17/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.29	1.0	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.84	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.92	
Vinyl chloride	ND	ug/L	1	0.16	0.55	
meta,para-Xylene	ND	ug/L	1	0.42	1.5	
MTBE	ND	ug/L	1	0.28	1.0	
Isopropyl Ether	ND	ug/L	1	0.24	0.84	
Dibromofluoromethane (SURR)	122%					S
Toluene-d8 (SURR)	103%					S
1-Bromo-4-Fluorobenzene (SURR)	98%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866654 GP-111 17' Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.29	1.0	
Bromobenzene	ND	ug/L	1	0.37	1.3	
Bromochloromethane	ND	ug/L	1	0.24	0.85	
Bromodichloromethane	ND	ug/L	1	0.18	0.62	
Bromoform	ND	ug/L	1	0.25	0.89	
Bromomethane	ND	ug/L	1	0.12	0.43	
n-Butylbenzene	ND	ug/L	1	0.20	0.69	
sec-Butylbenzene	ND	ug/L	1	0.22	0.79	
tert-Butylbenzene	ND	ug/L	1	0.28	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82	
Chlorobenzene	ND	ug/L	1	0.19	0.69	
Chloroethane	ND	ug/L	1	1.2	4.4	
Chloroform	ND	ug/L	1	0.25	0.90	
Chloromethane	ND	ug/L	1	0.21	0.76	
2-Chlorotoluene	ND	ug/L	1	0.27	0.97	
4-Chlorotoluene	ND	ug/L	1	0.28	0.99	
Dibromochloromethane	ND	ug/L	1	0.25	0.89	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.24	0.86	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.61	
Dibromomethane	ND	ug/L	1	0.23	0.81	
1,2-Dichlorobenzene	ND	ug/L	1	0.18	0.63	
1,3-Dichlorobenzene	ND	ug/L	1	0.23	0.81	
1,4-Dichlorobenzene	ND	ug/L	1	0.33	1.2	
Dichlorodifluoromethane	ND	ug/L	1	0.28	0.98	
1,1-Dichloroethane	ND	ug/L	1	0.25	0.87	
1,2-Dichloroethane	ND	ug/L	1	0.33	1.2	
1,1-Dichloroethene	ND	ug/L	1	0.25	0.89	
cis-1,2-Dichloroethene	3.8	ug/L	1	0.30	1.1	
trans-1,2-Dichloroethene	ND	ug/L	1	0.25	0.89	
1,2-Dichloropropane	ND	ug/L	1	0.21	0.76	
1,3-Dichloropropane	ND	ug/L	1	0.29	1.0	
2,2-Dichloropropane	ND	ug/L	1	0.27	0.95	
1,1-Dichloropropene	ND	ug/L	1	0.29	1.0	
cis-1,3-Dichloropropene	ND	ug/L	1	0.21	0.74	
trans-1,3-Dichloropropene	ND	ug/L	1	0.17	0.58	
Ethylbenzene	ND	ug/L	1	0.22	0.79	
Hexachlorobutadiene	ND	ug/L	1	0.23	0.83	
Isopropylbenzene	ND	ug/L	1	0.24	0.86	
p-Isopropyltoluene	ND	ug/L	1	0.21	0.75	
Methylene chloride	ND	ug/L	1	0.25	0.90	
Naphthalene	ND	ug/L	1	0.34	1.2	
n-Propylbenzene	ND	ug/L	1	0.27	0.95	
ortho-Xylene	ND	ug/L	1	0.26	0.91	
Styrene	ND	ug/L	1	0.19	0.64	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.22	0.77	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	1.0	
Tetrachloroethene	ND	ug/L	1	0.21	0.76	
Toluene	[0.39]	ug/L	1	0.18	0.63	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.19	0.67	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.60	
1,1,1-Trichloroethane	ND	ug/L	1	0.26	0.93	
1,1,2-Trichloroethane	ND	ug/L	1	0.24	0.84	
Trichloroethene	ND	ug/L	1	0.31	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866654 GP-111 17' Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.29	1.0	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.84	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.92	
Vinyl chloride	[0.27]	ug/L	1	0.16	0.55	
meta,para-Xylene	ND	ug/L	1	0.42	1.5	
MTBE	ND	ug/L	1	0.28	1.0	
Isopropyl Ether	ND	ug/L	1	0.24	0.84	
Dibromofluoromethane (SURR)	105%					S
Toluene-d8 (SURR)	114%					S
1-Bromo-4-Fluorobenzene (SURR)	97%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 13 of 22

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866655 GP-111 35' Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	3.3	ug/L	1	0.29	1.0	
Bromobenzene	ND	ug/L	1	0.37	1.3	
Bromochloromethane	ND	ug/L	1	0.24	0.85	
Bromodichloromethane	ND	ug/L	1	0.18	0.62	
Bromoform	ND	ug/L	1	0.25	0.89	
Bromomethane	ND	ug/L	1	0.12	0.43	
n-Butylbenzene	ND	ug/L	1	0.20	0.69	
sec-Butylbenzene	ND	ug/L	1	0.22	0.79	
tert-Butylbenzene	ND	ug/L	1	0.28	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82	
Chlorobenzene	ND	ug/L	1	0.19	0.69	
Chloroethane	ND	ug/L	1	1.2	4.4	
Chloroform	ND	ug/L	1	0.25	0.90	
Chloromethane	ND	ug/L	1	0.21	0.76	
2-Chlorotoluene	ND	ug/L	1	0.27	0.97	
4-Chlorotoluene	ND	ug/L	1	0.28	0.99	
Dibromochloromethane	ND	ug/L	1	0.25	0.89	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.24	0.86	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.61	
Dibromomethane	ND	ug/L	1	0.23	0.81	
1,2-Dichlorobenzene	ND	ug/L	1	0.18	0.63	
1,3-Dichlorobenzene	ND	ug/L	1	0.23	0.81	
1,4-Dichlorobenzene	ND	ug/L	1	0.33	1.2	
Dichlorodifluoromethane	ND	ug/L	1	0.28	0.98	
1,1-Dichloroethane	[0.36]	ug/L	1	0.25	0.87	
1,2-Dichloroethane	ND	ug/L	1	0.33	1.2	
1,1-Dichloroethene	0.98	ug/L	1	0.25	0.89	
cis-1,2-Dichloroethene	180	ug/L	20	4.5	16	
trans-1,2-Dichloroethene	4.8	ug/L	1	0.25	0.89	
1,2-Dichloropropane	ND	ug/L	1	0.21	0.76	
1,3-Dichloropropane	ND	ug/L	1	0.29	1.0	
2,2-Dichloropropane	ND	ug/L	1	0.27	0.95	
1,1-Dichloropropene	ND	ug/L	1	0.29	1.0	
cis-1,3-Dichloropropene	ND	ug/L	1	0.21	0.74	
trans-1,3-Dichloropropene	ND	ug/L	1	0.17	0.58	
Ethylbenzene	[0.27]	ug/L	1	0.22	0.79	
Hexachlorobutadiene	ND	ug/L	1	0.23	0.83	
Isopropylbenzene	ND	ug/L	1	0.24	0.86	
p-Isopropyltoluene	ND	ug/L	1	0.21	0.75	
Methylene chloride	ND	ug/L	1	0.25	0.90	
Naphthalene	ND	ug/L	1	0.34	1.2	
n-Propylbenzene	ND	ug/L	1	0.27	0.95	
ortho-Xylene	ND	ug/L	1	0.26	0.91	
Styrene	ND	ug/L	1	0.19	0.64	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.22	0.77	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	1.0	
Tetrachloroethene	ND	ug/L	1	0.21	0.76	
Toluene	0.74	ug/L	1	0.18	0.63	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.19	0.67	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.60	
1,1,1-Trichloroethane	ND	ug/L	1	0.26	0.93	
1,1,2-Trichloroethane	ND	ug/L	1	0.24	0.84	
Trichloroethene	ND	ug/L	1	0.31	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866655 GP-111 35' Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.29	1.0	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.84	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.92	
Vinyl chloride	18	ug/L	1	0.16	0.55	
meta,para-Xylene	ND	ug/L	1	0.42	1.5	
MTBE	ND	ug/L	1	0.28	1.0	
Isopropyl Ether	ND	ug/L	1	0.24	0.84	
Dibromofluoromethane (SURR)	125%					S
Toluene-d8 (SURR)	116%					S
1-Bromo-4-Fluorobenzene (SURR)	114%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866656 GP-112 35' Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.29	1.0	
Bromobenzene	ND	ug/L	1	0.37	1.3	
Bromochloromethane	ND	ug/L	1	0.24	0.85	
Bromodichloromethane	ND	ug/L	1	0.18	0.62	
Bromoform	ND	ug/L	1	0.25	0.89	
Bromomethane	ND	ug/L	1	0.12	0.43	
n-Butylbenzene	ND	ug/L	1	0.20	0.69	
sec-Butylbenzene	ND	ug/L	1	0.22	0.79	
tert-Butylbenzene	ND	ug/L	1	0.28	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82	
Chlorobenzene	ND	ug/L	1	0.19	0.69	
Chloroethane	ND	ug/L	1	1.2	4.4	
Chloroform	ND	ug/L	1	0.25	0.90	
Chloromethane	ND	ug/L	1	0.21	0.76	
2-Chlorotoluene	ND	ug/L	1	0.27	0.97	
4-Chlorotoluene	ND	ug/L	1	0.28	0.99	
Dibromochloromethane	ND	ug/L	1	0.25	0.89	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.24	0.86	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.61	
Dibromomethane	ND	ug/L	1	0.23	0.81	
1,2-Dichlorobenzene	ND	ug/L	1	0.18	0.63	
1,3-Dichlorobenzene	ND	ug/L	1	0.23	0.81	
1,4-Dichlorobenzene	ND	ug/L	1	0.33	1.2	
Dichlorodifluoromethane	ND	ug/L	1	0.28	0.98	
1,1-Dichloroethane	ND	ug/L	1	0.25	0.87	
1,2-Dichloroethane	ND	ug/L	1	0.33	1.2	
1,1-Dichloroethene	ND	ug/L	1	0.25	0.89	
cis-1,2-Dichloroethene	ND	ug/L	1	0.30	1.1	
trans-1,2-Dichloroethene	ND	ug/L	1	0.25	0.89	
1,2-Dichloropropane	ND	ug/L	1	0.21	0.76	
1,3-Dichloropropane	ND	ug/L	1	0.29	1.0	
2,2-Dichloropropane	ND	ug/L	1	0.27	0.95	
1,1-Dichloropropene	ND	ug/L	1	0.29	1.0	
cis-1,3-Dichloropropene	ND	ug/L	1	0.21	0.74	
trans-1,3-Dichloropropene	ND	ug/L	1	0.17	0.58	
Ethylbenzene	ND	ug/L	1	0.22	0.79	
Hexachlorobutadiene	ND	ug/L	1	0.23	0.83	
Isopropylbenzene	ND	ug/L	1	0.24	0.86	
p-Isopropyltoluene	ND	ug/L	1	0.21	0.75	
Methylene chloride	ND	ug/L	1	0.25	0.90	
Naphthalene	[0.40]	ug/L	1	0.34	1.2	
n-Propylbenzene	ND	ug/L	1	0.27	0.95	
ortho-Xylene	ND	ug/L	1	0.26	0.91	
Styrene	ND	ug/L	1	0.19	0.64	MS
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.22	0.77	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	1.0	
Tetrachloroethene	ND	ug/L	1	0.21	0.76	
Toluene	[0.35]	ug/L	1	0.18	0.63	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.19	0.67	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.60	
1,1,1-Trichloroethane	ND	ug/L	1	0.26	0.93	
1,1,2-Trichloroethane	ND	ug/L	1	0.24	0.84	
Trichloroethene	ND	ug/L	1	0.31	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866656 GP-112 35' Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.29	1.0	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.84	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.92	
Vinyl chloride	ND	ug/L	1	0.16	0.55	
meta,para-Xylene	ND	ug/L	1	0.42	1.5	
MTBE	ND	ug/L	1	0.28	1.0	
Isopropyl Ether	ND	ug/L	1	0.24	0.84	
Dibromofluoromethane (SURR)	119%					S
Toluene-d8 (SURR)	119%					S
1-Bromo-4-Fluorobenzene (SURR)	108%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

MS = Matrix spike recovery was outside QC limits.

Styrene recovery was 52%.

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866657 GP-113 15' Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.29	1.0	
Bromobenzene	ND	ug/L	1	0.37	1.3	
Bromochloromethane	ND	ug/L	1	0.24	0.85	
Bromodichloromethane	ND	ug/L	1	0.18	0.62	
Bromoform	ND	ug/L	1	0.25	0.89	
Bromomethane	ND	ug/L	1	0.12	0.43	
n-Butylbenzene	ND	ug/L	1	0.20	0.69	
sec-Butylbenzene	ND	ug/L	1	0.22	0.79	
tert-Butylbenzene	ND	ug/L	1	0.28	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82	
Chlorobenzene	ND	ug/L	1	0.19	0.69	
Chloroethane	ND	ug/L	1	1.2	4.4	
Chloroform	ND	ug/L	1	0.25	0.90	
Chloromethane	ND	ug/L	1	0.21	0.76	
2-Chlorotoluene	ND	ug/L	1	0.27	0.97	
4-Chlorotoluene	ND	ug/L	1	0.28	0.99	
Dibromochloromethane	ND	ug/L	1	0.25	0.89	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.24	0.86	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.61	
Dibromomethane	ND	ug/L	1	0.23	0.81	
1,2-Dichlorobenzene	ND	ug/L	1	0.18	0.63	
1,3-Dichlorobenzene	ND	ug/L	1	0.23	0.81	
1,4-Dichlorobenzene	ND	ug/L	1	0.33	1.2	
Dichlorodifluoromethane	ND	ug/L	1	0.28	0.98	
1,1-Dichloroethane	ND	ug/L	1	0.25	0.87	
1,2-Dichloroethane	ND	ug/L	1	0.33	1.2	
1,1-Dichloroethene	ND	ug/L	1	0.25	0.89	
cis-1,2-Dichloroethene	ND	ug/L	1	0.30	1.1	
trans-1,2-Dichloroethene	ND	ug/L	1	0.25	0.89	
1,2-Dichloropropane	ND	ug/L	1	0.21	0.76	
1,3-Dichloropropane	ND	ug/L	1	0.29	1.0	
2,2-Dichloropropane	ND	ug/L	1	0.27	0.95	
1,1-Dichloropropene	ND	ug/L	1	0.29	1.0	
cis-1,3-Dichloropropene	ND	ug/L	1	0.21	0.74	
trans-1,3-Dichloropropene	ND	ug/L	1	0.17	0.58	
Ethylbenzene	ND	ug/L	1	0.22	0.79	
Hexachlorobutadiene	ND	ug/L	1	0.23	0.83	
Isopropylbenzene	ND	ug/L	1	0.24	0.86	
p-Isopropyltoluene	ND	ug/L	1	0.21	0.75	
Methylene chloride	[0.42]	ug/L	1	0.25	0.90	
Naphthalene	ND	ug/L	1	0.34	1.2	
n-Propylbenzene	ND	ug/L	1	0.27	0.95	
ortho-Xylene	ND	ug/L	1	0.26	0.91	
Styrene	ND	ug/L	1	0.19	0.64	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.22	0.77	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	1.0	
Tetrachloroethene	ND	ug/L	1	0.21	0.76	
Toluene	ND	ug/L	1	0.18	0.63	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.19	0.67	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.60	
1,1,1-Trichloroethane	ND	ug/L	1	0.26	0.93	
1,1,2-Trichloroethane	ND	ug/L	1	0.24	0.84	
Trichloroethene	ND	ug/L	1	0.31	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866657 GP-113 15' Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.29	1.0	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.84	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.92	
Vinyl chloride	ND	ug/L	1	0.16	0.55	
meta,para-Xylene	ND	ug/L	1	0.42	1.5	
MTBE	ND	ug/L	1	0.28	1.0	
Isopropyl Ether	ND	ug/L	1	0.24	0.84	
Dibromofluoromethane (SURR)	95%					S
Toluene-d8 (SURR)	126%					S
1-Bromo-4-Fluorobenzene (SURR)	98%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 19 of 22

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866658 GP-113 35' Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.29	1.0	
Bromobenzene	ND	ug/L	1	0.37	1.3	
Bromochloromethane	ND	ug/L	1	0.24	0.85	
Bromodichloromethane	ND	ug/L	1	0.18	0.62	
Bromoform	ND	ug/L	1	0.25	0.89	
Bromomethane	ND	ug/L	1	0.12	0.43	
n-Butylbenzene	ND	ug/L	1	0.20	0.69	
sec-Butylbenzene	ND	ug/L	1	0.22	0.79	
tert-Butylbenzene	ND	ug/L	1	0.28	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82	
Chlorobenzene	ND	ug/L	1	0.19	0.69	
Chloroethane	ND	ug/L	1	1.2	4.4	
Chloroform	ND	ug/L	1	0.25	0.90	
Chloromethane	ND	ug/L	1	0.21	0.76	
2-Chlorotoluene	ND	ug/L	1	0.27	0.97	
4-Chlorotoluene	ND	ug/L	1	0.28	0.99	
Dibromochloromethane	ND	ug/L	1	0.25	0.89	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.24	0.86	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.61	
Dibromomethane	ND	ug/L	1	0.23	0.81	
1,2-Dichlorobenzene	ND	ug/L	1	0.18	0.63	
1,3-Dichlorobenzene	ND	ug/L	1	0.23	0.81	
1,4-Dichlorobenzene	ND	ug/L	1	0.33	1.2	
Dichlorodifluoromethane	ND	ug/L	1	0.28	0.98	
1,1-Dichloroethane	ND	ug/L	1	0.25	0.87	
1,2-Dichloroethane	ND	ug/L	1	0.33	1.2	
1,1-Dichloroethene	ND	ug/L	1	0.25	0.89	
cis-1,2-Dichloroethene	ND	ug/L	1	0.30	1.1	
trans-1,2-Dichloroethene	ND	ug/L	1	0.25	0.89	
1,2-Dichloropropane	ND	ug/L	1	0.21	0.76	
1,3-Dichloropropane	ND	ug/L	1	0.29	1.0	
2,2-Dichloropropane	ND	ug/L	1	0.27	0.95	
1,1-Dichloropropene	ND	ug/L	1	0.29	1.0	
cis-1,3-Dichloropropene	ND	ug/L	1	0.21	0.74	
trans-1,3-Dichloropropene	ND	ug/L	1	0.17	0.58	
Ethylbenzene	ND	ug/L	1	0.22	0.79	
Hexachlorobutadiene	ND	ug/L	1	0.23	0.83	
Isopropylbenzene	ND	ug/L	1	0.24	0.86	
p-Isopropyltoluene	ND	ug/L	1	0.21	0.75	
Methylene chloride	ND	ug/L	1	0.25	0.90	
Naphthalene	ND	ug/L	1	0.34	1.2	
n-Propylbenzene	ND	ug/L	1	0.27	0.95	
ortho-Xylene	ND	ug/L	1	0.26	0.91	
Styrene	ND	ug/L	1	0.19	0.64	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.22	0.77	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	1.0	
Tetrachloroethene	ND	ug/L	1	0.21	0.76	
Toluene	ND	ug/L	1	0.18	0.63	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.19	0.67	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.60	
1,1,1-Trichloroethane	ND	ug/L	1	0.26	0.93	
1,1,2-Trichloroethane	ND	ug/L	1	0.24	0.84	
Trichloroethene	ND	ug/L	1	0.31	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866658 GP-113 35' Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.29	1.0	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.84	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.92	
Vinyl chloride	ND	ug/L	1	0.16	0.55	
meta,para-Xylene	ND	ug/L	1	0.42	1.5	
MTBE	ND	ug/L	1	0.28	1.0	
Isopropyl Ether	ND	ug/L	1	0.24	0.84	
Dibromofluoromethane (SURR)	116%					S
Toluene-d8 (SURR)	132%					S
1-Bromo-4-Fluorobenzene (SURR)	95%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866674 GP-114 15 Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.29	1.0	
Bromobenzene	ND	ug/L	1	0.37	1.3	
Bromochloromethane	ND	ug/L	1	0.24	0.85	
Bromodichloromethane	ND	ug/L	1	0.18	0.62	
Bromoform	ND	ug/L	1	0.25	0.89	
Bromomethane	ND	ug/L	1	0.12	0.43	
n-Butylbenzene	ND	ug/L	1	0.20	0.69	
sec-Butylbenzene	ND	ug/L	1	0.22	0.79	
tert-Butylbenzene	ND	ug/L	1	0.28	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82	
Chlorobenzene	ND	ug/L	1	0.19	0.69	
Chloroethane	ND	ug/L	1	1.2	4.4	
Chloroform	ND	ug/L	1	0.25	0.90	
Chloromethane	ND	ug/L	1	0.21	0.76	
2-Chlorotoluene	ND	ug/L	1	0.27	0.97	
4-Chlorotoluene	ND	ug/L	1	0.28	0.99	
Dibromochloromethane	ND	ug/L	1	0.25	0.89	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.24	0.86	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.61	
Dibromomethane	ND	ug/L	1	0.23	0.81	
1,2-Dichlorobenzene	ND	ug/L	1	0.18	0.63	
1,3-Dichlorobenzene	ND	ug/L	1	0.23	0.81	
1,4-Dichlorobenzene	ND	ug/L	1	0.33	1.2	
Dichlorodifluoromethane	ND	ug/L	1	0.28	0.98	
1,1-Dichloroethane	ND	ug/L	1	0.25	0.87	
1,2-Dichloroethane	ND	ug/L	1	0.33	1.2	
1,1-Dichloroethene	ND	ug/L	1	0.25	0.89	
cis-1,2-Dichloroethene	ND	ug/L	1	0.30	1.1	
trans-1,2-Dichloroethene	ND	ug/L	1	0.25	0.89	
1,2-Dichloropropane	ND	ug/L	1	0.21	0.76	
1,3-Dichloropropane	ND	ug/L	1	0.29	1.0	
2,2-Dichloropropane	ND	ug/L	1	0.27	0.95	
1,1-Dichloropropene	ND	ug/L	1	0.29	1.0	
cis-1,3-Dichloropropene	ND	ug/L	1	0.21	0.74	
trans-1,3-Dichloropropene	ND	ug/L	1	0.17	0.58	
Ethylbenzene	ND	ug/L	1	0.22	0.79	
Hexachlorobutadiene	ND	ug/L	1	0.23	0.83	
Isopropylbenzene	ND	ug/L	1	0.24	0.86	
p-Isopropyltoluene	ND	ug/L	1	0.21	0.75	
Methylene chloride	ND	ug/L	1	0.25	0.90	
Naphthalene	ND	ug/L	1	0.34	1.2	
n-Propylbenzene	ND	ug/L	1	0.27	0.95	
ortho-Xylene	ND	ug/L	1	0.26	0.91	
Styrene	ND	ug/L	1	0.19	0.64	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.22	0.77	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	1.0	
Tetrachloroethene	ND	ug/L	1	0.21	0.76	
Toluene	[0.23]	ug/L	1	0.18	0.63	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.19	0.67	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.60	
1,1,1-Trichloroethane	ND	ug/L	1	0.26	0.93	
1,1,2-Trichloroethane	ND	ug/L	1	0.24	0.84	
Trichloroethene	ND	ug/L	1	0.31	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATW Printed: 06/30/2015 17:06

Sample: 866674 GP-114 15 Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.29	1.0	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.84	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.92	
Vinyl chloride	ND	ug/L	1	0.16	0.55	
meta,para-Xylene	ND	ug/L	1	0.42	1.5	
MTBE	ND	ug/L	1	0.28	1.0	
Isopropyl Ether	ND	ug/L	1	0.24	0.84	
Dibromofluoromethane (SURR)	101%					S
Toluene-d8 (SURR)	116%					S
1-Bromo-4-Fluorobenzene (SURR)	107%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Page 1 of 24

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866660 TW-03 Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	80	22	72	
Bromobenzene	ND	ug/L	80	24	80	
Bromochloromethane	ND	ug/L	80	19	63	
Bromodichloromethane	ND	ug/L	80	16	54	
Bromoform	ND	ug/L	80	17	58	
Bromomethane	ND	ug/L	80	20	65	
n-Butylbenzene	ND	ug/L	80	11	38	
sec-Butylbenzene	ND	ug/L	80	24	88	
tert-Butylbenzene	ND	ug/L	80	24	90	
Carbon Tetrachloride	ND	ug/L	80	20	65	
Chlorobenzene	ND	ug/L	80	21	69	
Chloroethane	ND	ug/L	80	120	390	
Chloroform	ND	ug/L	80	19	65	
Chloromethane	ND	ug/L	80	21	70	
2-Chlorotoluene	ND	ug/L	80	20	70	
4-Chlorotoluene	ND	ug/L	80	26	85	
Dibromochloromethane	ND	ug/L	80	15	50	
1,2-Dibromo-3-Chloropropane	ND	ug/L	80	21	69	
1,2-Dibromoethane	ND	ug/L	80	21	71	
Dibromomethane	ND	ug/L	80	18	61	
1,2-Dichlorobenzene	ND	ug/L	80	4.8	15	
1,3-Dichlorobenzene	ND	ug/L	80	28	90	
1,4-Dichlorobenzene	ND	ug/L	80	18	61	
Dichlorodifluoromethane	ND	ug/L	80	24	82	
1,1-Dichloroethane	ND	ug/L	80	19	64	
1,2-Dichloroethane	ND	ug/L	80	17	55	
1,1-Dichloroethene	ND	ug/L	80	22	73	
cis-1,2-Dichloroethene	428	ug/L	80	20	68	
trans-1,2-Dichloroethene	ND	ug/L	80	22	72	
1,2-Dichloropropane	ND	ug/L	80	21	71	
1,3-Dichloropropane	ND	ug/L	80	17	58	
2,2-Dichloropropane	ND	ug/L	80	21	71	
1,1-Dichloropropene	ND	ug/L	80	23	78	
cis-1,3-Dichloropropene	ND	ug/L	80	18	62	
trans-1,3-Dichloropropene	ND	ug/L	80	18	61	
Ethylbenzene	ND	ug/L	80	33	110	
Hexachlorobutadiene	ND	ug/L	80	34	120	
Isopropylbenzene	ND	ug/L	80	23	77	
p-Isopropyltoluene	ND	ug/L	80	26	96	
Methylene chloride	ND	ug/L	80	19	62	
Naphthalene	ND	ug/L	80	10	35	
n-Propylbenzene	ND	ug/L	80	20	73	
ortho-Xylene	ND	ug/L	80	25	84	
Styrene	ND	ug/L	80	17	56	
1,1,1,2-Tetrachloroethane	ND	ug/L	80	19	64	
1,1,2,2-Tetrachloroethane	ND	ug/L	80	19	65	
Tetrachloroethene	[36.8]	ug/L	80	21	75	
Toluene	ND	ug/L	80	22	72	
1,2,3-Trichlorobenzene	ND	ug/L	80	18	58	
1,2,4-Trichlorobenzene	ND	ug/L	80	12	41	
1,1,1-Trichloroethane	ND	ug/L	80	20	67	
1,1,2-Trichloroethane	ND	ug/L	80	18	59	
Trichloroethene	[20.6]	ug/L	80	15	49	

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866660 TW-03 Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	80	23	76	
1,2,3-Trichloropropane	ND	ug/L	80	23	78	
1,2,4-Trimethylbenzene	ND	ug/L	80	22	83	
1,3,5-Trimethylbenzene	ND	ug/L	80	7.4	24	
Vinyl chloride	488	ug/L	80	16	56	
meta,para-Xylene	ND	ug/L	80	11	35	
MTBE	ND	ug/L	80	9.4	31	
Isopropyl Ether	ND	ug/L	80	8.9	30	
Dibromofluoromethane (SURR)	110%					S
Toluene-d8 (SURR)	115%					S
1-Bromo-4-Fluorobenzene (SURR)	100%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Page 3 of 24

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866662 MW-2A Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	125	34	110	
Bromobenzene	ND	ug/L	125	38	130	
Bromochloromethane	ND	ug/L	125	30	98	
Bromodichloromethane	ND	ug/L	125	25	85	
Bromoform	ND	ug/L	125	27	91	
Bromomethane	ND	ug/L	125	31	100	
n-Butylbenzene	ND	ug/L	125	18	59	
sec-Butylbenzene	ND	ug/L	125	38	140	
tert-Butylbenzene	ND	ug/L	125	38	140	
Carbon Tetrachloride	ND	ug/L	125	31	100	
Chlorobenzene	ND	ug/L	125	32	110	
Chloroethane	ND	ug/L	125	180	620	
Chloroform	ND	ug/L	125	30	100	
Chloromethane	ND	ug/L	125	33	110	
2-Chlorotoluene	ND	ug/L	125	31	110	
4-Chlorotoluene	ND	ug/L	125	40	130	
Dibromochloromethane	ND	ug/L	125	24	79	
1,2-Dibromo-3-Chloropropane	ND	ug/L	125	32	110	
1,2-Dibromoethane	ND	ug/L	125	33	110	
Dibromomethane	ND	ug/L	125	29	95	
1,2-Dichlorobenzene	ND	ug/L	125	7.5	24	
1,3-Dichlorobenzene	ND	ug/L	125	44	140	
1,4-Dichlorobenzene	ND	ug/L	125	28	95	
Dichlorodifluoromethane	ND	ug/L	125	38	130	
1,1-Dichloroethane	ND	ug/L	125	30	100	
1,2-Dichloroethane	ND	ug/L	125	26	86	
1,1-Dichloroethene	ND	ug/L	125	34	110	
cis-1,2-Dichloroethene	3630	ug/L	200	51	170	
trans-1,2-Dichloroethene	ND	ug/L	125	34	110	
1,2-Dichloropropane	ND	ug/L	125	33	110	
1,3-Dichloropropane	ND	ug/L	125	27	90	
2,2-Dichloropropane	ND	ug/L	125	33	110	
1,1-Dichloropropene	ND	ug/L	125	37	120	
cis-1,3-Dichloropropene	ND	ug/L	125	29	97	
trans-1,3-Dichloropropene	ND	ug/L	125	29	96	
Ethylbenzene	ND	ug/L	125	51	170	
Hexachlorobutadiene	ND	ug/L	125	53	200	
Isopropylbenzene	ND	ug/L	125	36	120	
p-Isopropyltoluene	ND	ug/L	125	41	150	
Methylene chloride	ND	ug/L	125	29	97	
Naphthalene	ND	ug/L	125	16	54	
n-Propylbenzene	ND	ug/L	125	32	110	
ortho-Xylene	ND	ug/L	125	39	130	
Styrene	ND	ug/L	125	26	87	
1,1,1,2-Tetrachloroethane	ND	ug/L	125	30	99	
1,1,2,2-Tetrachloroethane	ND	ug/L	125	30	100	
Tetrachloroethene	135	ug/L	125	33	120	
Toluene	ND	ug/L	125	34	110	
1,2,3-Trichlorobenzene	ND	ug/L	125	28	90	
1,2,4-Trichlorobenzene	ND	ug/L	125	19	65	
1,1,1-Trichloroethane	ND	ug/L	125	31	100	
1,1,2-Trichloroethane	ND	ug/L	125	28	92	
Trichloroethene	[71]	ug/L	125	23	76	

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866662 MW-2A Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	125	36	120	
1,2,3-Trichloropropane	ND	ug/L	125	37	120	
1,2,4-Trimethylbenzene	ND	ug/L	125	35	130	
1,3,5-Trimethylbenzene	ND	ug/L	125	12	37	
Vinyl chloride	[53.9]	ug/L	125	25	88	
meta,para-Xylene	ND	ug/L	125	17	55	
MTBE	ND	ug/L	125	15	49	
Isopropyl Ether	ND	ug/L	125	14	46	
Dibromofluoromethane (SURR)	107%					S
Toluene-d8 (SURR)	112%					S
1-Bromo-4-Fluorobenzene (SURR)	105%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Page 5 of 24

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866663 MW-3 Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	[0.423]	ug/L	1	0.27	0.90	
Bromobenzene	ND	ug/L	1	0.30	1.0	
Bromochloromethane	ND	ug/L	1	0.24	0.79	
Bromodichloromethane	ND	ug/L	1	0.20	0.68	
Bromoform	ND	ug/L	1	0.22	0.73	
Bromomethane	ND	ug/L	1	0.24	0.82	
n-Butylbenzene	ND	ug/L	1	0.14	0.47	
sec-Butylbenzene	ND	ug/L	1	0.30	1.1	
tert-Butylbenzene	ND	ug/L	1	0.31	1.1	
Carbon Tetrachloride	ND	ug/L	1	0.25	0.82	
Chlorobenzene	[0.506]	ug/L	1	0.26	0.86	
Chloroethane	ND	ug/L	1	1.5	4.9	
Chloroform	ND	ug/L	1	0.24	0.81	
Chloromethane	ND	ug/L	1	0.26	0.87	
2-Chlorotoluene	ND	ug/L	1	0.25	0.88	
4-Chlorotoluene	ND	ug/L	1	0.32	1.1	
Dibromochloromethane	ND	ug/L	1	0.19	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.26	0.86	
1,2-Dibromoethane	ND	ug/L	1	0.27	0.89	
Dibromomethane	ND	ug/L	1	0.23	0.76	
1,2-Dichlorobenzene	ND	ug/L	1	0.060	0.19	
1,3-Dichlorobenzene	ND	ug/L	1	0.35	1.1	
1,4-Dichlorobenzene	ND	ug/L	1	0.23	0.76	
Dichlorodifluoromethane	ND	ug/L	1	0.31	1.0	
1,1-Dichloroethane	ND	ug/L	1	0.24	0.80	
1,2-Dichloroethane	ND	ug/L	1	0.21	0.69	
1,1-Dichloroethene	ND	ug/L	1	0.27	0.91	
cis-1,2-Dichloroethene	1.63	ug/L	1	0.26	0.85	
trans-1,2-Dichloroethene	ND	ug/L	1	0.27	0.90	
1,2-Dichloropropane	ND	ug/L	1	0.27	0.89	
1,3-Dichloropropane	ND	ug/L	1	0.22	0.72	
2,2-Dichloropropane	ND	ug/L	1	0.27	0.89	
1,1-Dichloropropene	ND	ug/L	1	0.29	0.97	
cis-1,3-Dichloropropene	ND	ug/L	1	0.23	0.77	
trans-1,3-Dichloropropene	ND	ug/L	1	0.23	0.77	
Ethylbenzene	[0.822]	ug/L	1	0.41	1.4	
Hexachlorobutadiene	ND	ug/L	1	0.43	1.6	
Isopropylbenzene	[0.325]	ug/L	1	0.29	0.97	
p-Isopropyltoluene	ND	ug/L	1	0.33	1.2	
Methylene chloride	ND	ug/L	1	0.23	0.77	
Naphthalene	ND	ug/L	1	0.13	0.44	
n-Propylbenzene	ND	ug/L	1	0.26	0.91	
ortho-Xylene	1.73	ug/L	1	0.32	1.1	
Styrene	ND	ug/L	1	0.21	0.70	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.24	0.79	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.24	0.81	
Tetrachloroethene	[0.411]	ug/L	1	0.27	0.94	
Toluene	[0.417]	ug/L	1	0.27	0.90	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.72	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.16	0.52	
1,1,1-Trichloroethane	ND	ug/L	1	0.25	0.84	
1,1,2-Trichloroethane	ND	ug/L	1	0.22	0.73	
Trichloroethene	[0.362]	ug/L	1	0.18	0.61	

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866663 MW-3 Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.29	0.96	
1,2,3-Trichloropropane	ND	ug/L	1	0.29	0.98	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.28	1.0	
1,3,5-Trimethylbenzene	[0.096]	ug/L	1	0.092	0.29	
Vinyl chloride	[0.483]	ug/L	1	0.20	0.71	
meta,para-Xylene	2.98	ug/L	1	0.14	0.44	
MTBE	ND	ug/L	1	0.12	0.39	
Isopropyl Ether	ND	ug/L	1	0.11	0.37	
Dibromofluoromethane (SURR)	111%					S
Toluene-d8 (SURR)	114%					S
1-Bromo-4-Fluorobenzene (SURR)	108%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Page 7 of 24

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866664 MW-3A Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1250	340	1100	
Bromobenzene	ND	ug/L	1250	380	1300	
Bromochloromethane	ND	ug/L	1250	300	980	
Bromodichloromethane	ND	ug/L	1250	250	850	
Bromoform	ND	ug/L	1250	270	910	
Bromomethane	ND	ug/L	1250	310	1000	
n-Butylbenzene	ND	ug/L	1250	180	590	
sec-Butylbenzene	ND	ug/L	1250	380	1400	
tert-Butylbenzene	ND	ug/L	1250	380	1400	
Carbon Tetrachloride	ND	ug/L	1250	310	1000	
Chlorobenzene	ND	ug/L	1250	320	1100	
Chloroethane	ND	ug/L	1250	1800	6200	
Chloroform	ND	ug/L	1250	300	1000	
Chloromethane	ND	ug/L	1250	330	1100	
2-Chlorotoluene	ND	ug/L	1250	310	1100	
4-Chlorotoluene	ND	ug/L	1250	400	1300	
Dibromochloromethane	ND	ug/L	1250	240	790	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1250	320	1100	
1,2-Dibromoethane	ND	ug/L	1250	330	1100	
Dibromomethane	ND	ug/L	1250	290	950	
1,2-Dichlorobenzene	ND	ug/L	1250	75	240	
1,3-Dichlorobenzene	ND	ug/L	1250	440	1400	
1,4-Dichlorobenzene	ND	ug/L	1250	280	950	
Dichlorodifluoromethane	ND	ug/L	1250	380	1300	
1,1-Dichloroethane	ND	ug/L	1250	300	1000	
1,2-Dichloroethane	ND	ug/L	1250	260	860	
1,1-Dichloroethene	ND	ug/L	1250	340	1100	
cis-1,2-Dichloroethene	14700	ug/L	1250	320	1100	
trans-1,2-Dichloroethene	ND	ug/L	1250	340	1100	
1,2-Dichloropropane	ND	ug/L	1250	330	1100	
1,3-Dichloropropane	ND	ug/L	1250	270	900	
2,2-Dichloropropane	ND	ug/L	1250	330	1100	
1,1-Dichloropropene	ND	ug/L	1250	370	1200	
cis-1,3-Dichloropropene	ND	ug/L	1250	290	970	
trans-1,3-Dichloropropene	ND	ug/L	1250	290	960	
Ethylbenzene	ND	ug/L	1250	510	1700	
Hexachlorobutadiene	ND	ug/L	1250	530	2000	
Isopropylbenzene	ND	ug/L	1250	360	1200	
p-Isopropyltoluene	ND	ug/L	1250	410	1500	
Methylene chloride	ND	ug/L	1250	290	970	
Naphthalene	ND	ug/L	1250	160	540	
n-Propylbenzene	ND	ug/L	1250	320	1100	
ortho-Xylene	ND	ug/L	1250	390	1300	
Styrene	ND	ug/L	1250	260	870	
1,1,1,2-Tetrachloroethane	ND	ug/L	1250	300	990	
1,1,2,2-Tetrachloroethane	ND	ug/L	1250	300	1000	
Tetrachloroethene	ND	ug/L	1250	330	1200	
Toluene	ND	ug/L	1250	340	1100	
1,2,3-Trichlorobenzene	ND	ug/L	1250	280	900	
1,2,4-Trichlorobenzene	ND	ug/L	1250	190	650	
1,1,1-Trichloroethane	ND	ug/L	1250	310	1000	
1,1,2-Trichloroethane	ND	ug/L	1250	280	920	
Trichloroethene	ND	ug/L	1250	230	760	

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866664 MW-3A Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1250	360	1200	
1,2,3-Trichloropropane	ND	ug/L	1250	370	1200	
1,2,4-Trimethylbenzene	ND	ug/L	1250	350	1300	
1,3,5-Trimethylbenzene	ND	ug/L	1250	120	370	
Vinyl chloride	2360	ug/L	1250	250	880	
meta,para-Xylene	ND	ug/L	1250	170	550	
MTBE	ND	ug/L	1250	150	490	
Isopropyl Ether	ND	ug/L	1250	140	460	
Dibromofluoromethane (SURR)	115%					S
Toluene-d8 (SURR)	112%					S
1-Bromo-4-Fluorobenzene (SURR)	105%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Page 9 of 24

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866665 MW-3B Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	200	54	180	
Bromobenzene	ND	ug/L	200	60	200	
Bromochloromethane	ND	ug/L	200	47	160	
Bromodichloromethane	ND	ug/L	200	41	140	
Bromoform	ND	ug/L	200	44	150	
Bromomethane	ND	ug/L	200	49	160	
n-Butylbenzene	ND	ug/L	200	28	95	
sec-Butylbenzene	ND	ug/L	200	60	220	
tert-Butylbenzene	ND	ug/L	200	61	230	
Carbon Tetrachloride	ND	ug/L	200	49	160	
Chlorobenzene	ND	ug/L	200	52	170	
Chloroethane	ND	ug/L	200	300	990	
Chloroform	ND	ug/L	200	49	160	
Chloromethane	ND	ug/L	200	52	170	
2-Chlorotoluene	ND	ug/L	200	49	180	
4-Chlorotoluene	ND	ug/L	200	64	210	
Dibromochloromethane	ND	ug/L	200	38	130	
1,2-Dibromo-3-Chloropropane	ND	ug/L	200	51	170	
1,2-Dibromoethane	ND	ug/L	200	53	180	
Dibromomethane	ND	ug/L	200	46	150	
1,2-Dichlorobenzene	ND	ug/L	200	12	38	
1,3-Dichlorobenzene	ND	ug/L	200	70	220	
1,4-Dichlorobenzene	ND	ug/L	200	45	150	
Dichlorodifluoromethane	ND	ug/L	200	61	200	
1,1-Dichloroethane	ND	ug/L	200	48	160	
1,2-Dichloroethane	ND	ug/L	200	41	140	
1,1-Dichloroethene	ND	ug/L	200	55	180	
cis-1,2-Dichloroethene	1160	ug/L	200	51	170	
trans-1,2-Dichloroethene	ND	ug/L	200	54	180	
1,2-Dichloropropane	ND	ug/L	200	53	180	
1,3-Dichloropropane	ND	ug/L	200	43	140	
2,2-Dichloropropane	ND	ug/L	200	53	180	
1,1-Dichloropropene	ND	ug/L	200	58	190	
cis-1,3-Dichloropropene	ND	ug/L	200	46	150	
trans-1,3-Dichloropropene	ND	ug/L	200	46	150	
Ethylbenzene	ND	ug/L	200	82	270	
Hexachlorobutadiene	ND	ug/L	200	85	310	
Isopropylbenzene	ND	ug/L	200	58	190	
p-Isopropyltoluene	ND	ug/L	200	65	240	
Methylene chloride	ND	ug/L	200	46	150	
Naphthalene	ND	ug/L	200	26	87	
n-Propylbenzene	ND	ug/L	200	51	180	
ortho-Xylene	ND	ug/L	200	63	210	
Styrene	ND	ug/L	200	42	140	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	48	160	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	49	160	
Tetrachloroethene	3380	ug/L	200	53	190	
Toluene	ND	ug/L	200	54	180	
1,2,3-Trichlorobenzene	ND	ug/L	200	45	140	
1,2,4-Trichlorobenzene	ND	ug/L	200	31	100	
1,1,1-Trichloroethane	ND	ug/L	200	50	170	
1,1,2-Trichloroethane	ND	ug/L	200	44	150	
Trichloroethene	1440	ug/L	200	36	120	

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866665 MW-3B Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	200	57	190	
1,2,3-Trichloropropane	ND	ug/L	200	59	200	
1,2,4-Trimethylbenzene	ND	ug/L	200	56	210	
1,3,5-Trimethylbenzene	ND	ug/L	200	18	59	
Vinyl chloride	218	ug/L	200	40	140	
meta,para-Xylene	ND	ug/L	200	28	88	
MTBE	ND	ug/L	200	23	78	
Isopropyl Ether	ND	ug/L	200	22	74	
Dibromofluoromethane (SURR)	110%					S
Toluene-d8 (SURR)	111%					S
1-Bromo-4-Fluorobenzene (SURR)	100%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Page 11 of 24

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866666 MW-4 Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	250	68	220	
Bromobenzene	ND	ug/L	250	75	250	
Bromochloromethane	ND	ug/L	250	59	200	
Bromodichloromethane	ND	ug/L	250	51	170	
Bromoform	ND	ug/L	250	55	180	
Bromomethane	ND	ug/L	250	61	200	
n-Butylbenzene	ND	ug/L	250	36	120	
sec-Butylbenzene	ND	ug/L	250	75	280	
tert-Butylbenzene	ND	ug/L	250	77	280	
Carbon Tetrachloride	ND	ug/L	250	61	200	
Chlorobenzene	ND	ug/L	250	65	220	
Chloroethane	ND	ug/L	250	370	1200	
Chloroform	ND	ug/L	250	61	200	
Chloromethane	ND	ug/L	250	66	220	
2-Chlorotoluene	ND	ug/L	250	62	220	
4-Chlorotoluene	ND	ug/L	250	80	270	
Dibromochloromethane	ND	ug/L	250	47	160	
1,2-Dibromo-3-Chloropropane	ND	ug/L	250	64	210	
1,2-Dibromoethane	ND	ug/L	250	67	220	
Dibromomethane	ND	ug/L	250	57	190	
1,2-Dichlorobenzene	ND	ug/L	250	15	48	
1,3-Dichlorobenzene	ND	ug/L	250	88	280	
1,4-Dichlorobenzene	ND	ug/L	250	57	190	
Dichlorodifluoromethane	ND	ug/L	250	77	260	
1,1-Dichloroethane	ND	ug/L	250	60	200	
1,2-Dichloroethane	ND	ug/L	250	52	170	
1,1-Dichloroethene	ND	ug/L	250	68	230	
cis-1,2-Dichloroethene	6010	ug/L	500	130	430	
trans-1,2-Dichloroethene	ND	ug/L	250	67	220	
1,2-Dichloropropane	ND	ug/L	250	67	220	
1,3-Dichloropropane	ND	ug/L	250	54	180	
2,2-Dichloropropane	ND	ug/L	250	67	220	
1,1-Dichloropropene	ND	ug/L	250	73	240	
cis-1,3-Dichloropropene	ND	ug/L	250	58	190	
trans-1,3-Dichloropropene	ND	ug/L	250	57	190	
Ethylbenzene	ND	ug/L	250	100	340	
Hexachlorobutadiene	ND	ug/L	250	110	390	
Isopropylbenzene	ND	ug/L	250	73	240	
p-Isopropyltoluene	ND	ug/L	250	82	300	
Methylene chloride	ND	ug/L	250	58	190	
Naphthalene	ND	ug/L	250	33	110	
n-Propylbenzene	ND	ug/L	250	64	230	
ortho-Xylene	ND	ug/L	250	79	260	
Styrene	ND	ug/L	250	53	170	
1,1,1,2-Tetrachloroethane	ND	ug/L	250	60	200	
1,1,2,2-Tetrachloroethane	ND	ug/L	250	61	200	
Tetrachloroethene	ND	ug/L	250	66	230	
Toluene	ND	ug/L	250	67	220	
1,2,3-Trichlorobenzene	ND	ug/L	250	57	180	
1,2,4-Trichlorobenzene	ND	ug/L	250	39	130	
1,1,1-Trichloroethane	ND	ug/L	250	63	210	
1,1,2-Trichloroethane	ND	ug/L	250	55	180	
Trichloroethene	ND	ug/L	250	46	150	

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866666 MW-4 Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	250	72	240	
1,2,3-Trichloropropane	ND	ug/L	250	73	240	
1,2,4-Trimethylbenzene	ND	ug/L	250	70	260	
1,3,5-Trimethylbenzene	ND	ug/L	250	23	74	
Vinyl chloride	4560	ug/L	250	50	180	
meta,para-Xylene	ND	ug/L	250	35	110	
MTBE	ND	ug/L	250	29	98	
Isopropyl Ether	ND	ug/L	250	28	93	
Dibromofluoromethane (SURR)	112%					S
Toluene-d8 (SURR)	113%					S
1-Bromo-4-Fluorobenzene (SURR)	105%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866667 MW-7A Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	10	2.7	9.0	
Bromobenzene	ND	ug/L	10	3.0	10	
Bromochloromethane	ND	ug/L	10	2.4	7.9	
Bromodichloromethane	ND	ug/L	10	2.0	6.8	
Bromoform	ND	ug/L	10	2.2	7.3	
Bromomethane	ND	ug/L	10	2.4	8.2	
n-Butylbenzene	ND	ug/L	10	1.4	4.7	
sec-Butylbenzene	ND	ug/L	10	3.0	11	
tert-Butylbenzene	ND	ug/L	10	3.1	11	
Carbon Tetrachloride	ND	ug/L	10	2.5	8.2	
Chlorobenzene	ND	ug/L	10	2.6	8.6	
Chloroethane	ND	ug/L	10	15	49	
Chloroform	ND	ug/L	10	2.4	8.1	
Chloromethane	ND	ug/L	10	2.6	8.7	
2-Chlorotoluene	ND	ug/L	10	2.5	8.8	
4-Chlorotoluene	ND	ug/L	10	3.2	11	
Dibromochloromethane	ND	ug/L	10	1.9	6.3	
1,2-Dibromo-3-Chloropropane	ND	ug/L	10	2.6	8.6	
1,2-Dibromoethane	ND	ug/L	10	2.7	8.9	
Dibromomethane	ND	ug/L	10	2.3	7.6	
1,2-Dichlorobenzene	ND	ug/L	10	0.60	1.9	
1,3-Dichlorobenzene	ND	ug/L	10	3.5	11	
1,4-Dichlorobenzene	ND	ug/L	10	2.3	7.6	
Dichlorodifluoromethane	ND	ug/L	10	3.1	10	
1,1-Dichloroethane	ND	ug/L	10	2.4	8.0	
1,2-Dichloroethane	ND	ug/L	10	2.1	6.9	
1,1-Dichloroethene	ND	ug/L	10	2.7	9.1	
cis-1,2-Dichloroethene	187	ug/L	10	2.6	8.5	
trans-1,2-Dichloroethene	ND	ug/L	10	2.7	9.0	
1,2-Dichloropropane	ND	ug/L	10	2.7	8.9	
1,3-Dichloropropane	ND	ug/L	10	2.2	7.2	
2,2-Dichloropropane	ND	ug/L	10	2.7	8.9	
1,1-Dichloropropene	ND	ug/L	10	2.9	9.7	
cis-1,3-Dichloropropene	ND	ug/L	10	2.3	7.7	
trans-1,3-Dichloropropene	ND	ug/L	10	2.3	7.7	
Ethylbenzene	ND	ug/L	10	4.1	14	
Hexachlorobutadiene	ND	ug/L	10	4.3	16	
Isopropylbenzene	ND	ug/L	10	2.9	9.7	
p-Isopropyltoluene	ND	ug/L	10	3.3	12	
Methylene chloride	ND	ug/L	10	2.3	7.7	
Naphthalene	ND	ug/L	10	1.3	4.4	
n-Propylbenzene	ND	ug/L	10	2.6	9.1	
ortho-Xylene	ND	ug/L	10	3.2	11	
Styrene	ND	ug/L	10	2.1	7.0	
1,1,1,2-Tetrachloroethane	ND	ug/L	10	2.4	7.9	
1,1,2,2-Tetrachloroethane	ND	ug/L	10	2.4	8.1	
Tetrachloroethene	70.8	ug/L	10	2.7	9.4	
Toluene	ND	ug/L	10	2.7	9.0	
1,2,3-Trichlorobenzene	ND	ug/L	10	2.3	7.2	
1,2,4-Trichlorobenzene	ND	ug/L	10	1.6	5.2	
1,1,1-Trichloroethane	ND	ug/L	10	2.5	8.4	
1,1,2-Trichloroethane	ND	ug/L	10	2.2	7.3	
Trichloroethene	32	ug/L	10	1.8	6.1	

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866667 MW-7A Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	10	2.9	9.6	
1,2,3-Trichloropropane	ND	ug/L	10	2.9	9.8	
1,2,4-Trimethylbenzene	ND	ug/L	10	2.8	10	
1,3,5-Trimethylbenzene	ND	ug/L	10	0.92	2.9	
Vinyl chloride	ND	ug/L	10	2.0	7.1	
meta,para-Xylene	ND	ug/L	10	1.4	4.4	
MTBE	ND	ug/L	10	1.2	3.9	
Isopropyl Ether	ND	ug/L	10	1.1	3.7	
Dibromofluoromethane (SURR)	110%					S
Toluene-d8 (SURR)	111%					S
1-Bromo-4-Fluorobenzene (SURR)	98%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Page 15 of 24

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866669 MW-9 Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	80	22	72	
Bromobenzene	ND	ug/L	80	24	80	
Bromochloromethane	ND	ug/L	80	19	63	
Bromodichloromethane	ND	ug/L	80	16	54	
Bromoform	ND	ug/L	80	17	58	
Bromomethane	ND	ug/L	80	20	65	
n-Butylbenzene	ND	ug/L	80	11	38	
sec-Butylbenzene	ND	ug/L	80	24	88	
tert-Butylbenzene	ND	ug/L	80	24	90	
Carbon Tetrachloride	ND	ug/L	80	20	65	
Chlorobenzene	ND	ug/L	80	21	69	
Chloroethane	ND	ug/L	80	120	390	
Chloroform	ND	ug/L	80	19	65	
Chloromethane	ND	ug/L	80	21	70	
2-Chlorotoluene	ND	ug/L	80	20	70	
4-Chlorotoluene	ND	ug/L	80	26	85	
Dibromochloromethane	ND	ug/L	80	15	50	
1,2-Dibromo-3-Chloropropane	ND	ug/L	80	21	69	
1,2-Dibromoethane	ND	ug/L	80	21	71	
Dibromomethane	ND	ug/L	80	18	61	
1,2-Dichlorobenzene	ND	ug/L	80	4.8	15	
1,3-Dichlorobenzene	ND	ug/L	80	28	90	
1,4-Dichlorobenzene	ND	ug/L	80	18	61	
Dichlorodifluoromethane	ND	ug/L	80	24	82	
1,1-Dichloroethane	ND	ug/L	80	19	64	
1,2-Dichloroethane	ND	ug/L	80	17	55	
1,1-Dichloroethene	ND	ug/L	80	22	73	
cis-1,2-Dichloroethene	2300	ug/L	200	51	170	
trans-1,2-Dichloroethene	[25.4]	ug/L	80	22	72	
1,2-Dichloropropane	ND	ug/L	80	21	71	
1,3-Dichloropropane	ND	ug/L	80	17	58	
2,2-Dichloropropane	ND	ug/L	80	21	71	
1,1-Dichloropropene	ND	ug/L	80	23	78	
cis-1,3-Dichloropropene	ND	ug/L	80	18	62	
trans-1,3-Dichloropropene	ND	ug/L	80	18	61	
Ethylbenzene	ND	ug/L	80	33	110	
Hexachlorobutadiene	ND	ug/L	80	34	120	
Isopropylbenzene	ND	ug/L	80	23	77	
p-Isopropyltoluene	ND	ug/L	80	26	96	
Methylene chloride	ND	ug/L	80	19	62	
Naphthalene	ND	ug/L	80	10	35	
n-Propylbenzene	ND	ug/L	80	20	73	
ortho-Xylene	ND	ug/L	80	25	84	
Styrene	ND	ug/L	80	17	56	
1,1,1,2-Tetrachloroethane	ND	ug/L	80	19	64	
1,1,2,2-Tetrachloroethane	ND	ug/L	80	19	65	
Tetrachloroethene	[37.7]	ug/L	80	21	75	
Toluene	ND	ug/L	80	22	72	
1,2,3-Trichlorobenzene	ND	ug/L	80	18	58	
1,2,4-Trichlorobenzene	ND	ug/L	80	12	41	
1,1,1-Trichloroethane	ND	ug/L	80	20	67	
1,1,2-Trichloroethane	ND	ug/L	80	18	59	
Trichloroethene	ND	ug/L	80	15	49	

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866669 MW-9 Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	80	23	76	
1,2,3-Trichloropropane	ND	ug/L	80	23	78	
1,2,4-Trimethylbenzene	ND	ug/L	80	22	83	
1,3,5-Trimethylbenzene	ND	ug/L	80	7.4	24	
Vinyl chloride	85.6	ug/L	80	16	56	
meta,para-Xylene	ND	ug/L	80	11	35	
MTBE	ND	ug/L	80	9.4	31	
Isopropyl Ether	ND	ug/L	80	8.9	30	
Dibromofluoromethane (SURR)	111%					S
Toluene-d8 (SURR)	111%					S
1-Bromo-4-Fluorobenzene (SURR)	97%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866670 MW-9A Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	25	6.8	22	
Bromobenzene	ND	ug/L	25	7.5	25	
Bromochloromethane	ND	ug/L	25	5.9	20	
Bromodichloromethane	ND	ug/L	25	5.1	17	
Bromoform	ND	ug/L	25	5.5	18	
Bromomethane	ND	ug/L	25	6.1	20	
n-Butylbenzene	ND	ug/L	25	3.6	12	
sec-Butylbenzene	ND	ug/L	25	7.5	28	
tert-Butylbenzene	ND	ug/L	25	7.7	28	
Carbon Tetrachloride	ND	ug/L	25	6.1	20	
Chlorobenzene	ND	ug/L	25	6.5	22	
Chloroethane	ND	ug/L	25	37	120	
Chloroform	ND	ug/L	25	6.1	20	
Chloromethane	ND	ug/L	25	6.6	22	
2-Chlorotoluene	ND	ug/L	25	6.2	22	
4-Chlorotoluene	ND	ug/L	25	8.0	27	
Dibromochloromethane	ND	ug/L	25	4.7	16	
1,2-Dibromo-3-Chloropropane	ND	ug/L	25	6.4	21	
1,2-Dibromoethane	ND	ug/L	25	6.7	22	
Dibromomethane	ND	ug/L	25	5.7	19	
1,2-Dichlorobenzene	ND	ug/L	25	1.5	4.8	
1,3-Dichlorobenzene	ND	ug/L	25	8.8	28	
1,4-Dichlorobenzene	ND	ug/L	25	5.7	19	
Dichlorodifluoromethane	ND	ug/L	25	7.7	26	
1,1-Dichloroethane	ND	ug/L	25	6.0	20	
1,2-Dichloroethane	ND	ug/L	25	5.2	17	
1,1-Dichloroethene	ND	ug/L	25	6.8	23	
cis-1,2-Dichloroethene	358	ug/L	50	13	43	
trans-1,2-Dichloroethene	ND	ug/L	25	6.7	22	
1,2-Dichloropropane	ND	ug/L	25	6.7	22	
1,3-Dichloropropane	ND	ug/L	25	5.4	18	
2,2-Dichloropropane	ND	ug/L	25	6.7	22	
1,1-Dichloropropene	ND	ug/L	25	7.3	24	
cis-1,3-Dichloropropene	ND	ug/L	25	5.8	19	
trans-1,3-Dichloropropene	ND	ug/L	25	5.7	19	
Ethylbenzene	ND	ug/L	25	10	34	
Hexachlorobutadiene	ND	ug/L	25	11	39	
Isopropylbenzene	ND	ug/L	25	7.3	24	
p-Isopropyltoluene	ND	ug/L	25	8.2	30	
Methylene chloride	ND	ug/L	25	5.8	19	
Naphthalene	ND	ug/L	25	3.3	11	
n-Propylbenzene	ND	ug/L	25	6.4	23	
ortho-Xylene	ND	ug/L	25	7.9	26	
Styrene	ND	ug/L	25	5.3	17	
1,1,1,2-Tetrachloroethane	ND	ug/L	25	6.0	20	
1,1,2,2-Tetrachloroethane	ND	ug/L	25	6.1	20	
Tetrachloroethene	ND	ug/L	25	6.6	23	
Toluene	ND	ug/L	25	6.7	22	
1,2,3-Trichlorobenzene	ND	ug/L	25	5.7	18	
1,2,4-Trichlorobenzene	ND	ug/L	25	3.9	13	
1,1,1-Trichloroethane	ND	ug/L	25	6.3	21	
1,1,2-Trichloroethane	ND	ug/L	25	5.5	18	
Trichloroethene	ND	ug/L	25	4.6	15	

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866670 MW-9A Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	25	7.2	24	
1,2,3-Trichloropropane	ND	ug/L	25	7.3	24	
1,2,4-Trimethylbenzene	ND	ug/L	25	7.0	26	
1,3,5-Trimethylbenzene	ND	ug/L	25	2.3	7.4	
Vinyl chloride	[16.8]	ug/L	25	5.0	18	
meta,para-Xylene	ND	ug/L	25	3.5	11	
MTBE	ND	ug/L	25	2.9	9.8	
Isopropyl Ether	ND	ug/L	25	2.8	9.3	
Dibromofluoromethane (SURR)	104%					S
Toluene-d8 (SURR)	111%					S
1-Bromo-4-Fluorobenzene (SURR)	105%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Page 19 of 24

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866671 Storm Sewer North Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	10	2.7	9.0	
Bromobenzene	ND	ug/L	10	3.0	10	
Bromochloromethane	ND	ug/L	10	2.4	7.9	
Bromodichloromethane	ND	ug/L	10	2.0	6.8	
Bromoform	ND	ug/L	10	2.2	7.3	
Bromomethane	ND	ug/L	10	2.4	8.2	
n-Butylbenzene	ND	ug/L	10	1.4	4.7	
sec-Butylbenzene	ND	ug/L	10	3.0	11	
tert-Butylbenzene	ND	ug/L	10	3.1	11	
Carbon Tetrachloride	ND	ug/L	10	2.5	8.2	
Chlorobenzene	ND	ug/L	10	2.6	8.6	
Chloroethane	ND	ug/L	10	15	49	
Chloroform	ND	ug/L	10	2.4	8.1	
Chloromethane	ND	ug/L	10	2.6	8.7	
2-Chlorotoluene	ND	ug/L	10	2.5	8.8	
4-Chlorotoluene	ND	ug/L	10	3.2	11	
Dibromochloromethane	ND	ug/L	10	1.9	6.3	
1,2-Dibromo-3-Chloropropane	ND	ug/L	10	2.6	8.6	
1,2-Dibromoethane	ND	ug/L	10	2.7	8.9	
Dibromomethane	ND	ug/L	10	2.3	7.6	
1,2-Dichlorobenzene	ND	ug/L	10	0.60	1.9	
1,3-Dichlorobenzene	ND	ug/L	10	3.5	11	
1,4-Dichlorobenzene	ND	ug/L	10	2.3	7.6	
Dichlorodifluoromethane	ND	ug/L	10	3.1	10	
1,1-Dichloroethane	ND	ug/L	10	2.4	8.0	
1,2-Dichloroethane	ND	ug/L	10	2.1	6.9	
1,1-Dichloroethene	ND	ug/L	10	2.7	9.1	
cis-1,2-Dichloroethene	187	ug/L	80	19	63	
trans-1,2-Dichloroethene	ND	ug/L	10	2.7	9.0	
1,2-Dichloropropane	ND	ug/L	10	2.7	8.9	
1,3-Dichloropropane	ND	ug/L	10	2.2	7.2	
2,2-Dichloropropane	ND	ug/L	10	2.7	8.9	
1,1-Dichloropropene	ND	ug/L	10	2.9	9.7	
cis-1,3-Dichloropropene	ND	ug/L	10	2.3	7.7	
trans-1,3-Dichloropropene	ND	ug/L	10	2.3	7.7	
Ethylbenzene	ND	ug/L	10	4.1	14	
Hexachlorobutadiene	ND	ug/L	10	4.3	16	
Isopropylbenzene	ND	ug/L	10	2.9	9.7	
p-Isopropyltoluene	ND	ug/L	10	3.3	12	
Methylene chloride	ND	ug/L	10	2.3	7.7	
Naphthalene	ND	ug/L	10	1.3	4.4	
n-Propylbenzene	ND	ug/L	10	2.6	9.1	
ortho-Xylene	ND	ug/L	10	3.2	11	
Styrene	ND	ug/L	10	2.1	7.0	
1,1,1,2-Tetrachloroethane	ND	ug/L	10	2.4	7.9	
1,1,2,2-Tetrachloroethane	ND	ug/L	10	2.4	8.1	
Tetrachloroethene	339	ug/L	80	17	62	
Toluene	ND	ug/L	10	2.7	9.0	
1,2,3-Trichlorobenzene	ND	ug/L	10	2.3	7.2	
1,2,4-Trichlorobenzene	ND	ug/L	10	1.6	5.2	
1,1,1-Trichloroethane	ND	ug/L	10	2.5	8.4	
1,1,2-Trichloroethane	ND	ug/L	10	2.2	7.3	
Trichloroethene	110	ug/L	80	13	47	

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866671 Storm Sewer North Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	10	2.9	9.6	
1,2,3-Trichloropropane	ND	ug/L	10	2.9	9.8	
1,2,4-Trimethylbenzene	ND	ug/L	10	2.8	10	
1,3,5-Trimethylbenzene	ND	ug/L	10	0.92	2.9	
Vinyl chloride	52.1	ug/L	10	2.0	7.1	
meta,para-Xylene	ND	ug/L	10	1.4	4.4	
MTBE	ND	ug/L	10	1.2	3.9	
Isopropyl Ether	ND	ug/L	10	1.1	3.7	
Dibromofluoromethane (SURR)	102%					S
Toluene-d8 (SURR)	105%					S
1-Bromo-4-Fluorobenzene (SURR)	104%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866672 Outfall At SP-01 Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	10	2.7	9.0	
Bromobenzene	ND	ug/L	10	3.0	10	
Bromochloromethane	ND	ug/L	10	2.4	7.9	
Bromodichloromethane	ND	ug/L	10	2.0	6.8	
Bromoform	ND	ug/L	10	2.2	7.3	
Bromomethane	ND	ug/L	10	2.4	8.2	
n-Butylbenzene	ND	ug/L	10	1.4	4.7	
sec-Butylbenzene	ND	ug/L	10	3.0	11	
tert-Butylbenzene	ND	ug/L	10	3.1	11	
Carbon Tetrachloride	ND	ug/L	10	2.5	8.2	
Chlorobenzene	ND	ug/L	10	2.6	8.6	
Chloroethane	ND	ug/L	10	15	49	
Chloroform	ND	ug/L	10	2.4	8.1	
Chloromethane	ND	ug/L	10	2.6	8.7	
2-Chlorotoluene	ND	ug/L	10	2.5	8.8	
4-Chlorotoluene	ND	ug/L	10	3.2	11	
Dibromochloromethane	ND	ug/L	10	1.9	6.3	
1,2-Dibromo-3-Chloropropane	ND	ug/L	10	2.6	8.6	
1,2-Dibromoethane	ND	ug/L	10	2.7	8.9	
Dibromomethane	ND	ug/L	10	2.3	7.6	
1,2-Dichlorobenzene	ND	ug/L	10	0.60	1.9	
1,3-Dichlorobenzene	ND	ug/L	10	3.5	11	
1,4-Dichlorobenzene	ND	ug/L	10	2.3	7.6	
Dichlorodifluoromethane	ND	ug/L	10	3.1	10	
1,1-Dichloroethane	ND	ug/L	10	2.4	8.0	
1,2-Dichloroethane	ND	ug/L	10	2.1	6.9	
1,1-Dichloroethene	ND	ug/L	10	2.7	9.1	
cis-1,2-Dichloroethene	100	ug/L	10	2.6	8.5	
trans-1,2-Dichloroethene	ND	ug/L	10	2.7	9.0	
1,2-Dichloropropane	ND	ug/L	10	2.7	8.9	
1,3-Dichloropropane	ND	ug/L	10	2.2	7.2	
2,2-Dichloropropane	ND	ug/L	10	2.7	8.9	
1,1-Dichloropropene	ND	ug/L	10	2.9	9.7	
cis-1,3-Dichloropropene	ND	ug/L	10	2.3	7.7	
trans-1,3-Dichloropropene	ND	ug/L	10	2.3	7.7	
Ethylbenzene	ND	ug/L	10	4.1	14	
Hexachlorobutadiene	ND	ug/L	10	4.3	16	
Isopropylbenzene	ND	ug/L	10	2.9	9.7	
p-Isopropyltoluene	ND	ug/L	10	3.3	12	
Methylene chloride	ND	ug/L	10	2.3	7.7	
Naphthalene	ND	ug/L	10	1.3	4.4	
n-Propylbenzene	ND	ug/L	10	2.6	9.1	
ortho-Xylene	ND	ug/L	10	3.2	11	
Styrene	ND	ug/L	10	2.1	7.0	
1,1,1,2-Tetrachloroethane	ND	ug/L	10	2.4	7.9	
1,1,2,2-Tetrachloroethane	ND	ug/L	10	2.4	8.1	
Tetrachloroethene	83.5	ug/L	25	5.5	19	
Toluene	ND	ug/L	10	2.7	9.0	
1,2,3-Trichlorobenzene	ND	ug/L	10	2.3	7.2	
1,2,4-Trichlorobenzene	ND	ug/L	10	1.6	5.2	
1,1,1-Trichloroethane	ND	ug/L	10	2.5	8.4	
1,1,2-Trichloroethane	ND	ug/L	10	2.2	7.3	
Trichloroethene	59.2	ug/L	10	1.8	6.1	

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866672 Outfall At SP-01 Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	10	2.9	9.6	
1,2,3-Trichloropropane	ND	ug/L	10	2.9	9.8	
1,2,4-Trimethylbenzene	ND	ug/L	10	2.8	10	
1,3,5-Trimethylbenzene	ND	ug/L	10	0.92	2.9	
Vinyl chloride	9.9	ug/L	10	2.0	7.1	
meta,para-Xylene	ND	ug/L	10	1.4	4.4	
MTBE	ND	ug/L	10	1.2	3.9	
Isopropyl Ether	ND	ug/L	10	1.1	3.7	
Dibromofluoromethane (SURR)	109%					S
Toluene-d8 (SURR)	111%					S
1-Bromo-4-Fluorobenzene (SURR)	95%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866673 South of SP-01 Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	10	2.7	9.0	
Bromobenzene	ND	ug/L	10	3.0	10	
Bromochloromethane	ND	ug/L	10	2.4	7.9	
Bromodichloromethane	ND	ug/L	10	2.0	6.8	
Bromoform	ND	ug/L	10	2.2	7.3	
Bromomethane	ND	ug/L	10	2.4	8.2	
n-Butylbenzene	ND	ug/L	10	1.4	4.7	
sec-Butylbenzene	ND	ug/L	10	3.0	11	
tert-Butylbenzene	ND	ug/L	10	3.1	11	
Carbon Tetrachloride	ND	ug/L	10	2.5	8.2	
Chlorobenzene	ND	ug/L	10	2.6	8.6	
Chloroethane	ND	ug/L	10	15	49	
Chloroform	ND	ug/L	10	2.4	8.1	
Chloromethane	ND	ug/L	10	2.6	8.7	
2-Chlorotoluene	ND	ug/L	10	2.5	8.8	
4-Chlorotoluene	ND	ug/L	10	3.2	11	
Dibromochloromethane	ND	ug/L	10	1.9	6.3	
1,2-Dibromo-3-Chloropropane	ND	ug/L	10	2.6	8.6	
1,2-Dibromoethane	ND	ug/L	10	2.7	8.9	
Dibromomethane	ND	ug/L	10	2.3	7.6	
1,2-Dichlorobenzene	ND	ug/L	10	0.60	1.9	
1,3-Dichlorobenzene	ND	ug/L	10	3.5	11	
1,4-Dichlorobenzene	ND	ug/L	10	2.3	7.6	
Dichlorodifluoromethane	ND	ug/L	10	3.1	10	
1,1-Dichloroethane	ND	ug/L	10	2.4	8.0	
1,2-Dichloroethane	ND	ug/L	10	2.1	6.9	
1,1-Dichloroethene	ND	ug/L	10	2.7	9.1	
cis-1,2-Dichloroethene	113	ug/L	10	2.6	8.5	
trans-1,2-Dichloroethene	ND	ug/L	10	2.7	9.0	
1,2-Dichloropropane	ND	ug/L	10	2.7	8.9	
1,3-Dichloropropane	ND	ug/L	10	2.2	7.2	
2,2-Dichloropropane	ND	ug/L	10	2.7	8.9	
1,1-Dichloropropene	ND	ug/L	10	2.9	9.7	
cis-1,3-Dichloropropene	ND	ug/L	10	2.3	7.7	
trans-1,3-Dichloropropene	ND	ug/L	10	2.3	7.7	
Ethylbenzene	ND	ug/L	10	4.1	14	
Hexachlorobutadiene	ND	ug/L	10	4.3	16	
Isopropylbenzene	ND	ug/L	10	2.9	9.7	
p-Isopropyltoluene	ND	ug/L	10	3.3	12	
Methylene chloride	ND	ug/L	10	2.3	7.7	
Naphthalene	ND	ug/L	10	1.3	4.4	
n-Propylbenzene	ND	ug/L	10	2.6	9.1	
ortho-Xylene	ND	ug/L	10	3.2	11	
Styrene	ND	ug/L	10	2.1	7.0	
1,1,1,2-Tetrachloroethane	ND	ug/L	10	2.4	7.9	
1,1,2,2-Tetrachloroethane	ND	ug/L	10	2.4	8.1	
Tetrachloroethene	141	ug/L	10	2.7	9.4	
Toluene	ND	ug/L	10	2.7	9.0	
1,2,3-Trichlorobenzene	ND	ug/L	10	2.3	7.2	
1,2,4-Trichlorobenzene	ND	ug/L	10	1.6	5.2	
1,1,1-Trichloroethane	ND	ug/L	10	2.5	8.4	
1,1,2-Trichloroethane	ND	ug/L	10	2.2	7.3	
Trichloroethene	36.2	ug/L	10	1.8	6.1	

ANALYTICAL RESULTS: VOC's by P&T/GC/MS - Water - (VarSat2200)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SATRW Printed: 06/30/2015 17:06

Sample: 866673 South of SP-01 Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	10	2.9	9.6	
1,2,3-Trichloropropane	ND	ug/L	10	2.9	9.8	
1,2,4-Trimethylbenzene	ND	ug/L	10	2.8	10	
1,3,5-Trimethylbenzene	ND	ug/L	10	0.92	2.9	
Vinyl chloride	[5.0]	ug/L	10	2.0	7.1	
meta,para-Xylene	ND	ug/L	10	1.4	4.4	
MTBE	ND	ug/L	10	1.2	3.9	
Isopropyl Ether	ND	ug/L	10	1.1	3.7	
Dibromofluoromethane (SURR)	110%					S
Toluene-d8 (SURR)	114%					S
1-Bromo-4-Fluorobenzene (SURR)	100%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 1 of 34

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866645 GP-104 14' Collected: 06/16/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	16	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	[0.30]	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	ND	ug/L	1	0.22	0.77	
Toluene	[0.42]	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	3.2	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866645 GP-104 14' Collected: 06/16/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	0.95	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	116%					S
Toluene-d8 (SURR)	110%					S
1-Bromo-4-Fluorobenzene (SURR)	106%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 3 of 34

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866646 GP-105 15' Collected: 06/16/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	ND	ug/L	1	0.22	0.77	
Toluene	[0.29]	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866646 GP-105 15' Collected: 06/16/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	ND	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	106%					S
Toluene-d8 (SURR)	105%					S
1-Bromo-4-Fluorobenzene (SURR)	100%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 5 of 34

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866647 GP-106 15' Collected: 06/16/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	ND	ug/L	1	0.22	0.77	
Toluene	[0.24]	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866647 GP-106 15' Collected: 06/16/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	ND	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	108%					S
Toluene-d8 (SURR)	111%					S
1-Bromo-4-Fluorobenzene (SURR)	100%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 7 of 34

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866648 GP-106 35' Collected: 06/16/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	ND	ug/L	1	0.22	0.77	
Toluene	[0.44]	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866648 GP-106 35' Collected: 06/16/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	ND	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	107%					S
Toluene-d8 (SURR)	102%					S
1-Bromo-4-Fluorobenzene (SURR)	96%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 9 of 34

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866649 GP-107 20' Collected: 06/17/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	0.90	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	ND	ug/L	1	0.22	0.77	
Toluene	ND	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866649 GP-107 20' Collected: 06/17/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	ND	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	102%					S
Toluene-d8 (SURR)	110%					S
1-Bromo-4-Fluorobenzene (SURR)	96%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 11 of 34

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866650 GP-107 35' Collected: 06/16/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	ND	ug/L	1	0.22	0.77	
Toluene	ND	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866650 GP-107 35' Collected: 06/16/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	ND	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	105%					S
Toluene-d8 (SURR)	109%					S
1-Bromo-4-Fluorobenzene (SURR)	93%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 13 of 34

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866651 GP-108 18' Collected: 06/16/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	ND	ug/L	1	0.22	0.77	
Toluene	ND	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866651 GP-108 18' Collected: 06/16/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	ND	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	111%					S
Toluene-d8 (SURR)	108%					S
1-Bromo-4-Fluorobenzene (SURR)	101%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 15 of 34

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866652 GP-108 35' Collected: 06/16/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	ND	ug/L	1	0.22	0.77	
Toluene	ND	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866652 GP-108 35' Collected: 06/16/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	ND	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	105%					S
Toluene-d8 (SURR)	104%					S
1-Bromo-4-Fluorobenzene (SURR)	92%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 17 of 34

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866653 GP-109 18' Collected: 06/17/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	ND	ug/L	1	0.22	0.77	
Toluene	ND	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866653 GP-109 18' Collected: 06/17/15 Analyzed: 06/24/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	ND	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	105%					S
Toluene-d8 (SURR)	109%					S
1-Bromo-4-Fluorobenzene (SURR)	93%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 19 of 34

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866659 TW-02 Collected: 06/18/15 Analyzed: 06/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	20	3.8	13	
Bromobenzene	ND	ug/L	20	4.2	15	
Bromochloromethane	ND	ug/L	20	4.0	14	
Bromodichloromethane	ND	ug/L	20	4.3	15	
Bromoform	ND	ug/L	20	3.4	12	
Bromomethane	ND	ug/L	20	3.8	14	
n-Butylbenzene	ND	ug/L	20	5.5	20	
sec-Butylbenzene	ND	ug/L	20	3.4	12	
tert-Butylbenzene	ND	ug/L	20	3.9	14	
Carbon Tetrachloride	ND	ug/L	20	4.6	16	
Chlorobenzene	ND	ug/L	20	3.8	14	
Chloroethane	ND	ug/L	20	12	42	
Chloroform	ND	ug/L	20	3.8	13	
Chloromethane	ND	ug/L	20	2.9	10	
2-Chlorotoluene	ND	ug/L	20	3.9	14	
4-Chlorotoluene	ND	ug/L	20	3.7	13	
Dibromochloromethane	ND	ug/L	20	3.5	13	
1,2-Dibromo-3-Chloropropane	ND	ug/L	20	2.8	9.8	
1,2-Dibromoethane	ND	ug/L	20	3.6	13	
Dibromomethane	ND	ug/L	20	3.8	14	
1,2-Dichlorobenzene	ND	ug/L	20	3.1	11	
1,3-Dichlorobenzene	ND	ug/L	20	3.3	12	
1,4-Dichlorobenzene	ND	ug/L	20	3.9	14	
Dichlorodifluoromethane	ND	ug/L	20	3.7	13	
1,1-Dichloroethane	ND	ug/L	20	4.1	15	
1,2-Dichloroethane	ND	ug/L	20	4.0	14	
1,1-Dichloroethene	ND	ug/L	20	3.1	11	
cis-1,2-Dichloroethene	160	ug/L	20	4.5	16	
trans-1,2-Dichloroethene	ND	ug/L	20	3.5	13	
1,2-Dichloropropane	ND	ug/L	20	5.7	20	
1,3-Dichloropropane	ND	ug/L	20	3.5	12	
2,2-Dichloropropane	ND	ug/L	20	4.0	14	
1,1-Dichloropropene	ND	ug/L	20	4.0	14	
cis-1,3-Dichloropropene	ND	ug/L	20	3.8	13	
trans-1,3-Dichloropropene	ND	ug/L	20	3.1	11	
Ethylbenzene	ND	ug/L	20	3.5	12	
Hexachlorobutadiene	ND	ug/L	20	3.9	14	
Isopropylbenzene	ND	ug/L	20	3.8	13	
p-Isopropyltoluene	ND	ug/L	20	3.8	13	
Methylene chloride	15	ug/L	20	3.6	13	BD LB
Naphthalene	ND	ug/L	20	5.3	19	
n-Propylbenzene	ND	ug/L	20	3.7	13	
ortho-Xylene	ND	ug/L	20	3.4	12	
Styrene	ND	ug/L	20	3.1	11	
1,1,1,2-Tetrachloroethane	ND	ug/L	20	3.4	12	
1,1,2,2-Tetrachloroethane	ND	ug/L	20	3.1	11	
Tetrachloroethene	[12]	ug/L	20	4.4	15	
Toluene	ND	ug/L	20	4.0	14	
1,2,3-Trichlorobenzene	ND	ug/L	20	4.7	17	
1,2,4-Trichlorobenzene	ND	ug/L	20	4.7	17	
1,1,1-Trichloroethane	ND	ug/L	20	4.0	14	
1,1,2-Trichloroethane	ND	ug/L	20	3.9	14	
Trichloroethene	19	ug/L	20	3.3	12	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866659 TW-02 Collected: 06/18/15 Analyzed: 06/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	20	3.7	13	
1,2,3-Trichloropropane	ND	ug/L	20	4.8	17	
1,2,4-Trimethylbenzene	ND	ug/L	20	3.3	12	
1,3,5-Trimethylbenzene	ND	ug/L	20	4.1	15	
Vinyl chloride	30	ug/L	20	3.9	14	
meta,para-Xylene	ND	ug/L	20	7.9	28	
MTBE	ND	ug/L	20	3.5	13	
Isopropyl ether	ND	ug/L	20	4.1	15	
Dibromofluoromethane (SURR)	110%					S
Toluene-d8 (SURR)	105%					S
1-Bromo-4-Fluorobenzene (SURR)	97%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

LB = Compound is suspected of being a laboratory contaminant.

BD = Compound was detected in the laboratory method blank.

Methylene chloride detected at .75 ug/L.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 21 of 34

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866661 MW-2 Collected: 06/18/15 Analyzed: 06/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	200	38	130	
Bromobenzene	ND	ug/L	200	42	150	
Bromochloromethane	ND	ug/L	200	40	140	
Bromodichloromethane	ND	ug/L	200	43	150	
Bromoform	ND	ug/L	200	34	120	
Bromomethane	ND	ug/L	200	38	140	
n-Butylbenzene	ND	ug/L	200	55	200	
sec-Butylbenzene	ND	ug/L	200	34	120	
tert-Butylbenzene	ND	ug/L	200	39	140	
Carbon Tetrachloride	ND	ug/L	200	46	160	
Chlorobenzene	ND	ug/L	200	38	140	
Chloroethane	ND	ug/L	200	120	420	
Chloroform	ND	ug/L	200	38	130	
Chloromethane	ND	ug/L	200	29	100	
2-Chlorotoluene	ND	ug/L	200	39	140	
4-Chlorotoluene	ND	ug/L	200	37	130	
Dibromochloromethane	ND	ug/L	200	35	130	
1,2-Dibromo-3-Chloropropane	ND	ug/L	200	28	98	
1,2-Dibromoethane	ND	ug/L	200	36	130	
Dibromomethane	ND	ug/L	200	38	140	
1,2-Dichlorobenzene	ND	ug/L	200	31	110	
1,3-Dichlorobenzene	ND	ug/L	200	33	120	
1,4-Dichlorobenzene	ND	ug/L	200	39	140	
Dichlorodifluoromethane	ND	ug/L	200	37	130	
1,1-Dichloroethane	ND	ug/L	200	41	150	
1,2-Dichloroethane	ND	ug/L	200	40	140	
1,1-Dichloroethene	ND	ug/L	200	31	110	
cis-1,2-Dichloroethene	1800	ug/L	200	45	160	
trans-1,2-Dichloroethene	ND	ug/L	200	35	130	
1,2-Dichloropropane	ND	ug/L	200	57	200	
1,3-Dichloropropane	ND	ug/L	200	35	120	
2,2-Dichloropropane	ND	ug/L	200	40	140	
1,1-Dichloropropene	ND	ug/L	200	40	140	
cis-1,3-Dichloropropene	ND	ug/L	200	38	130	
trans-1,3-Dichloropropene	ND	ug/L	200	31	110	
Ethylbenzene	ND	ug/L	200	35	120	
Hexachlorobutadiene	ND	ug/L	200	39	140	
Isopropylbenzene	ND	ug/L	200	38	130	
p-Isopropyltoluene	ND	ug/L	200	38	130	
Methylene chloride	180	ug/L	200	36	130	BD LB
Naphthalene	ND	ug/L	200	53	190	
n-Propylbenzene	ND	ug/L	200	37	130	
ortho-Xylene	ND	ug/L	200	34	120	
Styrene	ND	ug/L	200	31	110	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	34	120	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	31	110	
Tetrachloroethene	[72]	ug/L	200	44	150	
Toluene	ND	ug/L	200	40	140	
1,2,3-Trichlorobenzene	ND	ug/L	200	47	170	
1,2,4-Trichlorobenzene	ND	ug/L	200	47	170	
1,1,1-Trichloroethane	ND	ug/L	200	40	140	
1,1,2-Trichloroethane	ND	ug/L	200	39	140	
Trichloroethene	120	ug/L	200	33	120	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866661 MW-2 Collected: 06/18/15 Analyzed: 06/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	200	37	130	
1,2,3-Trichloropropane	ND	ug/L	200	48	170	
1,2,4-Trimethylbenzene	ND	ug/L	200	33	120	
1,3,5-Trimethylbenzene	ND	ug/L	200	41	150	
Vinyl chloride	ND	ug/L	200	39	140	
meta,para-Xylene	ND	ug/L	200	79	280	
MTBE	ND	ug/L	200	35	130	
Isopropyl ether	ND	ug/L	200	41	150	
Dibromofluoromethane (SURR)	126%					S
Toluene-d8 (SURR)	118%					S
1-Bromo-4-Fluorobenzene (SURR)	105%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

LB = Compound is suspected of being a laboratory contaminant.

BD = Compound was detected in the laboratory method blank.

Methylene chloride detected at .75 ug/L.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 23 of 34

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866668 Dup #1 Collected: 06/18/15 Analyzed: 06/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	200	38	130	
Bromobenzene	ND	ug/L	200	42	150	
Bromochloromethane	ND	ug/L	200	40	140	
Bromodichloromethane	ND	ug/L	200	43	150	
Bromoform	ND	ug/L	200	34	120	
Bromomethane	ND	ug/L	200	38	140	
n-Butylbenzene	ND	ug/L	200	55	200	
sec-Butylbenzene	ND	ug/L	200	34	120	
tert-Butylbenzene	ND	ug/L	200	39	140	
Carbon Tetrachloride	ND	ug/L	200	46	160	
Chlorobenzene	ND	ug/L	200	38	140	
Chloroethane	ND	ug/L	200	120	420	
Chloroform	ND	ug/L	200	38	130	
Chloromethane	ND	ug/L	200	29	100	
2-Chlorotoluene	ND	ug/L	200	39	140	
4-Chlorotoluene	ND	ug/L	200	37	130	
Dibromochloromethane	ND	ug/L	200	35	130	
1,2-Dibromo-3-Chloropropane	ND	ug/L	200	28	98	
1,2-Dibromoethane	ND	ug/L	200	36	130	
Dibromomethane	ND	ug/L	200	38	140	
1,2-Dichlorobenzene	ND	ug/L	200	31	110	
1,3-Dichlorobenzene	ND	ug/L	200	33	120	
1,4-Dichlorobenzene	ND	ug/L	200	39	140	
Dichlorodifluoromethane	ND	ug/L	200	37	130	
1,1-Dichloroethane	ND	ug/L	200	41	150	
1,2-Dichloroethane	ND	ug/L	200	40	140	
1,1-Dichloroethene	ND	ug/L	200	31	110	
cis-1,2-Dichloroethene	2000	ug/L	200	45	160	
trans-1,2-Dichloroethene	ND	ug/L	200	35	130	
1,2-Dichloropropane	ND	ug/L	200	57	200	
1,3-Dichloropropane	ND	ug/L	200	35	120	
2,2-Dichloropropane	ND	ug/L	200	40	140	
1,1-Dichloropropene	ND	ug/L	200	40	140	
cis-1,3-Dichloropropene	ND	ug/L	200	38	130	
trans-1,3-Dichloropropene	ND	ug/L	200	31	110	
Ethylbenzene	ND	ug/L	200	35	120	
Hexachlorobutadiene	ND	ug/L	200	39	140	
Isopropylbenzene	ND	ug/L	200	38	130	
p-Isopropyltoluene	ND	ug/L	200	38	130	
Methylene chloride	150	ug/L	200	36	130	BD LB
Naphthalene	ND	ug/L	200	53	190	
n-Propylbenzene	ND	ug/L	200	37	130	
ortho-Xylene	ND	ug/L	200	34	120	
Styrene	ND	ug/L	200	31	110	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	34	120	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	31	110	
Tetrachloroethene	ND	ug/L	200	44	150	
Toluene	ND	ug/L	200	40	140	
1,2,3-Trichlorobenzene	ND	ug/L	200	47	170	
1,2,4-Trichlorobenzene	ND	ug/L	200	47	170	
1,1,1-Trichloroethane	ND	ug/L	200	40	140	
1,1,2-Trichloroethane	ND	ug/L	200	39	140	
Trichloroethene	ND	ug/L	200	33	120	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866668 Dup #1 Collected: 06/18/15 Analyzed: 06/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	200	37	130	
1,2,3-Trichloropropane	ND	ug/L	200	48	170	
1,2,4-Trimethylbenzene	ND	ug/L	200	33	120	
1,3,5-Trimethylbenzene	ND	ug/L	200	41	150	
Vinyl chloride	ND	ug/L	200	39	140	
meta,para-Xylene	ND	ug/L	200	79	280	
MTBE	ND	ug/L	200	35	130	
Isopropyl ether	ND	ug/L	200	41	150	
Dibromofluoromethane (SURR)	112%					S
Toluene-d8 (SURR)	111%					S
1-Bromo-4-Fluorobenzene (SURR)	103%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

LB = Compound is suspected of being a laboratory contaminant.

BD = Compound was detected in the laboratory method blank.

Methylene chloride detected at .75 ug/L.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 25 of 34

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866675 GP-114 35 Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	ND	ug/L	1	0.22	0.77	
Toluene	ND	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866675 GP-114 35 Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	ND	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	103%					S
Toluene-d8 (SURR)	102%					S
1-Bromo-4-Fluorobenzene (SURR)	96%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 27 of 34

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866676 GP Dup #1 Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	0.97	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	ND	ug/L	1	0.22	0.77	
Toluene	ND	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866676 GP Dup #1 Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	ND	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	109%					S
Toluene-d8 (SURR)	106%					S
1-Bromo-4-Fluorobenzene (SURR)	98%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 29 of 34

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866677 GP Dup #2 Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	ND	ug/L	1	0.22	0.77	
Toluene	ND	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866677 GP Dup #2 Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	ND	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	106%					S
Toluene-d8 (SURR)	102%					S
1-Bromo-4-Fluorobenzene (SURR)	102%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 31 of 34

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866678 Trip Blank Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	ND	ug/L	1	0.22	0.77	
Toluene	ND	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866678 Trip Blank Collected: 06/17/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	ND	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	110%					S
Toluene-d8 (SURR)	110%					S
1-Bromo-4-Fluorobenzene (SURR)	97%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 33 of 34

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866679 GP 109 Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	0.75	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	[0.28]	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	[0.32]	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	ND	ug/L	1	0.22	0.77	
Toluene	2.5	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 242486

Project Description: DB Oak/ 42-1-37320

Project Title: Template: SAT3W Printed: 06/30/2015 17:06

Sample: 866679 GP 109 Collected: 06/18/15 Analyzed: 06/25/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	[0.28]	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	ND	ug/L	1	0.20	0.70	
meta,para-Xylene	[0.60]	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	102%					S
Toluene-d8 (SURR)	111%					S
1-Bromo-4-Fluorobenzene (SURR)	93%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

CLIENT: SHANNON WILSON, INC.
 ADDRESS: 2110 LUANN LANE, SUITE 101
 CITY: MADISON STATE: WI ZIP: 53713
 PROJECT DESCRIPTION / NO.: DB OAK / 42-1-37320 QUOTATION NO.:
 DNR FID # _____ DNR LICENSE # _____
 CONTACT: MARK MCCOLLOCH PHONE: 608 | 442-5223
 PURCHASE ORDER NO. _____ FAX: 608 | 442-9013

Wisconsin Lab Cert. No. 721026460
 WI DATCP 105-000330

Analytical Laboratory and Environmental Services
 400 North Lake Avenue • Crandon, WI 54520-1298
 Tel: (715) 478-2777 • Fax: (715) 478-3060

MATRIX:
 SW = surface water
 WW = waste water
 GW = groundwater
 DW = drinking water
 TIS = tissue
 AIR = air
 SOIL = soil
 SED = sediment
 PROD = product
 SL = sludge
 OTHER _____

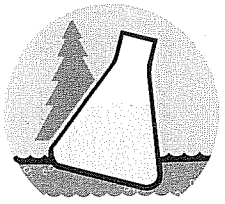
USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
 Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS

40, 41, 42, 43, 44, 45, 46, 47, 48, 49

HCL

PARAMETER



NO. 179099

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS	PARAMETER										COLLECTION REMARKS (i.e. DNR Well ID #)			
			DATE	TIME			1	2	3	4	5	6	7	8	9	10				
1.	640	GP-100 15'	06-16-15	803	GW	2														
2.	641	GP-101 14'	06-16-15	835		2														
3.	642	GP-102 35'	06-17-15	1905		2														
4.	643	GP-103 15'	06-18-15	0705		2														
5.	644	GP-103 35'	06-17-15	1755		2														
6.	645	GP-104 14'	06-16-15	1008		2														
7.	646	GP-105 15'	06-16-15	1310		2														
8.	647	GP-106 15'	06-16-15	1417		2														
9.	648	GP-106 35'	06-16-15	1355		2														
10.	649	GP-107 20'	06-17-15	1330		2														

COLLECTED BY (signature): Mark L McCulloch CUSTODY SEAL NO. (IF ANY) _____ DATE/TIME: 06-18-15 1630

RELINQUISHED BY (signature): Mark L McCulloch RECEIVED BY (signature): DAN HAM EXPRESS DATE/TIME: 06-18-15 1630

DISPATCHED BY (signature) _____ METHOD OF TRANSPORT _____ DATE/TIME _____

REPORT TO
 MARK MCCOLLOCH
 SHANNON WILSON, INC.
 2110 LUANN LN, SUITE 101
 MADISON, WI 53713

RECEIVED AT NLS BY (signature): Mike Brauer DATE/TIME: 6/19/15 CONDITION: 9 Other TEMP. _____

COOLER # _____ REMARKS & OTHER INFORMATION _____

PRESERVATIVE: N = nitric acid OH = sodium hydroxide
 NP = no preservative Z = zinc acetate HA = hydrochloric & ascorbic acid
 S = sulfuric acid M = methanol H = hydrochloric acid

WDNR FACILITY NUMBER _____ E-MAIL ADDRESS _____

INVOICE TO
 SAME

IMPORTANT:

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

CLIENT *SHANNON & WILSON, INC.*
 ADDRESS *2110 LUANN LANE*
 CITY *MADISON* STATE *WI* ZIP *53713*
 PROJECT DESCRIPTION / NO. *DB OAK 42-1-37320* QUOTATION NO.
 DNR FID # _____ DNR LICENSE # _____
 CONTACT *MARK McCOLLOCH* PHONE *608/442-5223*
 PURCHASE ORDER NO. _____ FAX *608/442-9013*

Wisconsin Lab Cert. No. 721026460
 WI DATCP 105-000330

Analytical Laboratory and Environmental Services
 400 North Lake Avenue • Crandon, WI 54520-1298
 Tel: (715) 478-2777 • Fax: (715) 478-3060

MATRIX:
 SW = surface water
 WW = waste water
 GW = groundwater
 DW = drinking water
 TIS = tissue
 AIR = air
 SOIL = soil
 SED = sediment
 PROD = product
 SL = sludge
 OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
 Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS
 40 ppb Vecs Vials

HCL

PARAMETER



NO. 179101

ITEM NO.	NLS LAB. NO.	SAMPLE ID		COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS										COLLECTION REMARKS (i.e. DNR Well ID #)										
				DATE	TIME		PARAMETER																				
1.	<i>66650</i>	<i>GP-107</i>	<i>35'</i>	<i>06-16-15</i>	<i>1505</i>	<i>GW</i>	<i>2</i>																				
2.	<i>651</i>	<i>GP-108</i>	<i>18'</i>	<i>06-16-15</i>	<i>1748</i>		<i>2</i>																				
3.	<i>652</i>	<i>GP-108</i>	<i>35'</i>	<i>06-16-15</i>	<i>1718</i>		<i>2</i>																				
4.	<i>653</i>	<i>GP-109</i>	<i>18'</i>	<i>06-17-15</i>	<i>0955</i>		<i>2</i>																				
5.		<i>GP-110</i>	<i>20'</i>	<i>06-18-15</i>	<i>0723</i>		<i>2</i>																				
6.	<i>654</i>	<i>GP-111</i>	<i>17'</i>	<i>06-17-15</i>	<i>1247</i>		<i>2</i>																				
7.	<i>655</i>	<i>GP-111</i>	<i>35'</i>	<i>06-17-15</i>	<i>1315</i>		<i>2</i>																				
8.	<i>656</i>	<i>GP-112</i>	<i>35'</i>	<i>06-17-15</i>	1447		<i>2</i>																				<i>1840 sample taken</i>
9.	<i>657</i>	<i>GP-113</i>	<i>15'</i>	<i>06-17-15</i>	<i>1447</i>		<i>2</i>																				
10.	<i>658</i>	<i>GP-113</i>	<i>35'</i>	<i>06-17-15</i>	<i>1530</i>		<i>2</i>																				

COLLECTED BY (signature) *Mark McCulloch* CUSTODY SEAL NO. (IF ANY) _____ DATE/TIME *06-18-15 1630*
 RELINQUISHED BY (signature) *Mark McCulloch* RECEIVED BY (signature) *DUNHAM EXPRESS* DATE/TIME *06-18-15 1630*
 DISPATCHED BY (signature) _____ METHOD OF TRANSPORT _____ DATE/TIME _____

REPORT TO
 MARK McCOLLOCH
 SHANNON & WILSON
 2110 LUANN LN. SUITE 101
 MADISON, WI 53713

RECEIVED AT NLS BY (signature) *Jake Braun* DATE/TIME *6/19/15 9* CONDITION *Good* TEMP. _____
 COOLER # _____ REMARKS & OTHER INFORMATION _____
 PRESERVATIVE: N = nitric acid OH = sodium hydroxide WDNR FACILITY NUMBER _____ E-MAIL ADDRESS _____
 NP = no preservative Z = zinc acetate HA = hydrochloric & ascorbic acid
 S = sulfuric acid M = methanol H = hydrochloric acid

INVOICE TO
SAME AS ABOVE

IMPORTANT:
 1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
 2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
 3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
 4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

CLIENT *SHANNON & WILSON, INC.*

ADDRESS
2110 LUANN LANE, SUITE 101

CITY *MADISON* STATE *WI* ZIP *53713*

PROJECT DESCRIPTION / NO.
DB OAK 42-1-37320 QUOTATION NO.

DNR FID # _____ DNR LICENSE # _____

CONTACT *MARK MCCULLOCH* PHONE *608/442-5223*

PURCHASE ORDER NO. _____ FAX *608/442-9013*

Wisconsin Lab Cert. No. 721026460
WI DATCP 105-000330

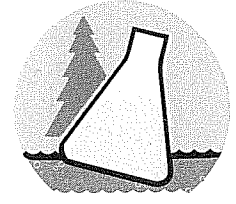
Analytical Laboratory and Environmental Services
400 North Lake Avenue • Crandon, WI 54520-1298
Tel: (715) 478-2777 • Fax: (715) 478-3060

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
DW = drinking water
TIS = tissue
AIR = air
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS
40 ml Vol%ids

PARAMETER



No. 178797

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS	PARAMETER										COLLECTION REMARKS (i.e. DNR Well ID #)			
			DATE	TIME																
1.	<i>866659</i>	<i>TW-02</i>	<i>06-18-15</i>	<i>1305</i>	<i>GW</i>	<i>2</i>														
2.	<i>660</i>	<i>TW-03</i>		<i>1045</i>		<i>2</i>														
3.	<i>661</i>	<i>MW-2</i>	<i>940</i>	<i>1045</i>		<i>2</i>														
4.	<i>662</i>	<i>MW-2A</i>		<i>935</i>		<i>2</i>														
5.	<i>663</i>	<i>MW-3</i>		<i>1300</i>		<i>2</i>														
6.	<i>664</i>	<i>MW-3A</i>		<i>1305</i>		<i>2</i>														
7.	<i>665</i>	<i>MW-3B</i>		<i>1227</i>		<i>2</i>														
8.	<i>666</i>	<i>MW-4</i>		<i>1035</i>		<i>2</i>														
9.	<i>667</i>	<i>MW-7A</i>		<i>858</i>		<i>2</i>														
10.	<i>668</i>	<i>DUP #1</i>		<i>936</i>		<i>2</i>														

COLLECTED BY (signature) *Mark McCulloch* CUSTODY SEAL NO. (IF ANY) _____ DATE/TIME *06-18-15 1630*

RELINQUISHED BY (signature) *Mark McCulloch* RECEIVED BY (signature) *DUNHAM EXPRESS* DATE/TIME *06-18-15 1630*

DISPATCHED BY (signature) _____ METHOD OF TRANSPORT _____ DATE/TIME _____

REPORT TO
*MARK MCCULLOCH
SHANNON & WILSON, INC.
2110 LUANN LANE, SUITE 101
MADISON, WI*

RECEIVED AT NLS BY (signature) *Julie Brann* DATE/TIME *6/19/15* 9 CONDITION *on ice* TEMP. _____

COOLER # _____ REMARKS & OTHER INFORMATION _____

WDNR FACILITY NUMBER _____ E-MAIL ADDRESS _____

PRESERVATIVE: N = nitric acid OH = sodium hydroxide
NP = no preservative Z = zinc acetate HA = hydrochloric & ascorbic acid
S = sulfuric acid M = methanol H = hydrochloric acid

INVOICE TO
SAME

IMPORTANT:

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

CLIENT SHANNON & WILSON, INC.		
ADDRESS 2110 LUANN SUITE 101		
CITY MADISON	STATE WI	ZIP 53713
PROJECT DESCRIPTION / NO. DB OAK 42-37320		QUOTATION NO.
DNR FID #	DNR LICENSE #	
CONTACT MARK McCOLLOCH	PHONE 608/442-5223	
PURCHASE ORDER NO.	FAX 608/442-9013	

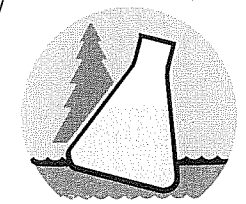
Wisconsin Lab Cert. No. 721026460
WI DATCP 105-000330

Analytical Laboratory and Environmental Services
400 North Lake Avenue • Crandon, WI 54520-1298
Tel: (715) 478-2777 • Fax: (715) 478-3060

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
DW = drinking water
TIS = tissue
AIR = air
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS Total Volatiles	PARAMETER									



NO. 178798

ITEM NO.	NLS LAB NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS	PARAMETER										COLLECTION REMARKS (i.e. DNR Well ID #)						
			DATE	TIME																			
1.	866609	MW-9	06-18-15	815	GW	2																	
2.	670	MW-9A	06-18-15	810	GW	2																	
3.	677	SP-01	06-18-15		SW																		
4.	672	STORM SEWER NORTH	06-18-15	1400	↓	2																	
5.	673	OUTFALL AT SP-01	06-18-15	1410	↓	2																	
6.	673	SOUTH OF SP-01	06-18-15	1420	↓	2																	
7.																							
8.																							
9.																							
10.																							

COLLECTED BY (signature) <i>Mark McCulloch</i>	CUSTODY SEAL NO. (IF ANY)	DATE/TIME 06-18-15 1630
RELINQUISHED BY (signature) <i>Mark McCulloch</i>	RECEIVED BY (signature) <i>DUSTIN EXPRESS</i>	DATE/TIME 06-18-15 1630
DISPATCHED BY (signature)	METHOD OF TRANSPORT	DATE/TIME

REPORT TO
MARK McCOLLOCH
SHANNON & WILSON, INC.
2110 LUANN LANE, SUITE 101
MADISON, WI

RECEIVED AT NLS BY (signature) <i>Jane Braun</i>	DATE/TIME 6/19/15 9	CONDITION once	TEMP.
COOLER #	REMARKS & OTHER INFORMATION		
PRESERVATIVE: NP = no preservative S = sulfuric acid	N = nitric acid Z = zinc acetate M = methanol	OH = sodium hydroxide HA = hydrochloric & ascorbic acid H = hydrochloric acid	WDNR FACILITY NUMBER
E-MAIL ADDRESS			

INVOICE TO
SAME

IMPORTANT:

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SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

CLIENT *SHAUNAN WILSON, INC.*
 ADDRESS *2110 LAMN LAKE, SUITE 107*
 CITY *MADISON* STATE *WI* ZIP *53713*
 PROJECT DESCRIPTION / NO. *DB OAK 42-1-37320* QUOTATION NO.
 DNR FID # _____ DNR LICENSE # _____
 CONTACT *MARK H'COLLON* PHONE *608/442-5223*
 PURCHASE ORDER NO. _____ FAX *608/442-5013*

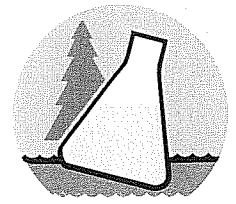
Wisconsin Lab Cert. No. 721026460
 WI DATCP 105-000330

Analytical Laboratory and Environmental Services
 400 North Lake Avenue • Crandon, WI 54520-1298
 Tel: (715) 478-2777 • Fax: (715) 478-3060

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 WW = waste water
 GW = groundwater
 DW = drinking water
 TIS = tissue
 AIR = air
 SOIL = soil
 SED = sediment
 PROD = product
 SL = sludge
 OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
 Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS	ADUP Well No's	WCL																			



NO. 179100

ITEM NO.	NLS LAB NO.	SAMPLE ID	COLLECTION		MATRIX (See above)															COLLECTION REMARKS (i.e. DNR Well ID #)	
			DATE	TIME																	
1.	<i>86674</i>	<i>GP-114 15</i>	<i>06-18-15</i>	<i>0650</i>	<i>GW</i>																
2.	<i>675</i>	<i>GP-114 35</i>	<i>06-17-15</i>	<i>1630</i>																	
3.	<i>676</i>	<i>GP DUP#1</i>	<i>06-17-15</i>	<i>1325</i>																	
4.	<i>677</i>	<i>GP DUP#2</i>	<i>06-17-15</i>	<i>1450</i>																	
5.	<i>678</i>	<i>TRAP BLANK</i>			<i>W</i>																
6.	<i>679</i>	<i>GP-109</i>																			
7.																					
8.																					
9.																					
10.																					

COLLECTED BY (signature) *Mark McCallum* CUSTODY SEAL NO. (IF ANY) _____ DATE/TIME *06-15-15 1630*
 RELINQUISHED BY (signature) *Mark H'Collon* RECEIVED BY (signature) *DUNHAM EXPRESS* DATE/TIME *06-18-15 - 1630*
 DISPATCHED BY (signature) _____ METHOD OF TRANSPORT _____ DATE/TIME _____

REPORT TO
MARK H'COLLON
SHAUNAN WILSON
2110 LAMN LAKE, SUITE 101
MADISON, WI 53713

RECEIVED AT NLS BY (signature) *Spencer Braun* DATE/TIME *6/19/15 9* CONDITION *on ice* TEMP. _____
 COOLER # _____ REMARKS & OTHER INFORMATION _____
 PRESERVATIVE: N = nitric acid OH = sodium hydroxide WDNR FACILITY NUMBER _____ E-MAIL ADDRESS _____
 NP = no preservative Z = zinc acetate HA = hydrochloric & ascorbic acid
 S = sulfuric acid M = methanol H = hydrochloric acid

INVOICE TO
SAME

IMPORTANT:
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Appendix D

Laboratory Reports September 2015 Groundwater Samples

ANALYTICAL REPORT

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 248381

NLS Customer: 104721

Fax: 608 442 9013 **Phone:** 608 442 5223

PO # 42-1-37320-003

Project: DB Oak

MW-2 NLS ID: 885164

COC: 176470:1 Matrix: GW

Collected: 09/22/15 17:35 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	[0.088]	mg/L	1	0.050	0.10	09/24/15	SW846 9056	721026460
Sulfate, as SO4 (unfiltered)	77	mg/L	1	2.5	5.0	09/24/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					09/29/15	SW846 8260C	721026460

MW-2A NLS ID: 885165

COC: 176470:2 Matrix: GW

Collected: 09/22/15 17:45 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	ND	mg/L	1	0.050	0.10	09/24/15	SW846 9056	721026460
Sulfate, as SO4 (unfiltered)	88	mg/L	1	2.5	5.0	09/24/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					09/29/15	SW846 8260C	721026460

MW-2B NLS ID: 885166

COC: 176470:3 Matrix: GW

Collected: 09/22/15 17:25 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	1.0	mg/L	1	0.050	0.10	09/24/15	SW846 9056	721026460
Sulfate, as SO4 (unfiltered)	72	mg/L	1	2.5	5.0	09/24/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					09/29/15	SW846 8260C	721026460

MW-3 NLS ID: 885167

COC: 176470:4 Matrix: GW

Collected: 09/23/15 11:00 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	ND	mg/L	1	0.050	0.10	09/24/15	SW846 9056	721026460
Sulfate, as SO4 (unfiltered)	60	mg/L	1	2.5	5.0	09/24/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					09/29/15	SW846 8260C	721026460

MW-3A NLS ID: 885168

COC: 176470:5 Matrix: GW

Collected: 09/23/15 10:30 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	ND	mg/L	1	0.050	0.10	09/24/15	SW846 9056	721026460
Sulfate, as SO4 (unfiltered)	35	mg/L	1	2.5	5.0	09/24/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					09/30/15	SW846 8260C	721026460

MW-3B NLS ID: 885169

COC: 176470:6 Matrix: GW

Collected: 09/23/15 09:55 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	ND	mg/L	1	0.050	0.10	09/24/15	SW846 9056	721026460
Sulfate, as SO4 (unfiltered)	58	mg/L	1	2.5	5.0	09/24/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					09/30/15	SW846 8260C	721026460

ANALYTICAL REPORT

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 248381

NLS Customer: 104721

Fax: 608 442 9013 **Phone:** 608 442 5223

PO # 42-1-37320-003

Project: DB Oak

MW-3C NLS ID: 885170

COC: 176470:7 Matrix: GW

Collected: 09/23/15 14:15 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	ND	mg/L	1	0.050	0.10	09/24/15	SW846 9056	721026460
Sulfate, as SO4 (unfiltered)	ND	mg/L	1	2.5	5.0	09/24/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					09/30/15	SW846 8260C	721026460

MW-4 NLS ID: 885171

COC: 176470:8 Matrix: GW

Collected: 09/22/15 15:15 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	ND	mg/L	1	0.050	0.10	09/24/15	SW846 9056	721026460
Sulfate, as SO4 (unfiltered)	[2.7]	mg/L	1	2.5	5.0	09/24/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					09/30/15	SW846 8260C	721026460

MW-4A NLS ID: 885172

COC: 176470:9 Matrix: GW

Collected: 09/22/15 15:10 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	ND	mg/L	1	0.050	0.10	09/24/15	SW846 9056	721026460
Sulfate, as SO4 (unfiltered)	54	mg/L	1	2.5	5.0	09/24/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					09/30/15	SW846 8260C	721026460

IW-01 NLS ID: 885173

COC: 176470:10 Matrix: GW

Collected: 09/22/15 11:45 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	[0.027]	mg/L	1	0.025	0.075	09/28/15	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	ND	mg/L	10	2.5	5.0	09/28/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					09/30/15	SW846 8260C	721026460

MW-7 NLS ID: 885174

COC: 176469:1 Matrix: GW

Collected: 09/22/15 14:10 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	1.3	mg/L	1	0.050	0.10	09/24/15	SW846 9056	721026460
Sulfate, as SO4 (unfiltered)	11	mg/L	1	2.5	5.0	09/24/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					09/30/15	SW846 8260C	721026460

MW-7A NLS ID: 885175

COC: 176469:2 Matrix: GW

Collected: 09/22/15 14:25 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	1.6	mg/L	1	0.050	0.10	09/24/15	SW846 9056	721026460
Sulfate, as SO4 (unfiltered)	41	mg/L	1	2.5	5.0	09/24/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					09/30/15	SW846 8260C	721026460

ANALYTICAL REPORT

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 248381

NLS Customer: 104721

Fax: 608 442 9013 **Phone:** 608 442 5223

PO # 42-1-37320-003

Project: DB Oak

MW-7B NLS ID: 885176

COC: 176469:3 Matrix: GW
 Collected: 09/22/15 13:55 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	[0.086]	mg/L	1	0.050	0.10	09/24/15	SW846 9056	721026460
Sulfate, as SO4 (unfiltered)	83	mg/L	1	2.5	5.0	09/24/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					10/01/15	SW846 8260C	721026460

MW-9 NLS ID: 885177

COC: 176469:4 Matrix: GW
 Collected: 09/22/15 11:15 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	0.16	mg/L	1	0.025	0.075	09/28/15	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	100	mg/L	10	2.5	5.0	09/28/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					09/30/15	SW846 8260C	721026460

MW-9A NLS ID: 885178

COC: 176469:5 Matrix: GW
 Collected: 09/22/15 11:00 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	[0.029]	mg/L	1	0.025	0.075	09/28/15	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	62	mg/L	10	2.5	5.0	09/28/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					09/30/15	SW846 8260C	721026460

TW-01 NLS ID: 885179

COC: 176469:6 Matrix: GW
 Collected: 09/23/15 10:35 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	0.20	mg/L	1	0.050	0.10	09/24/15	SW846 9056	721026460
Sulfate, as SO4 (unfiltered)	33	mg/L	1	2.5	5.0	09/24/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					09/30/15	SW846 8260C	721026460

TW-02 NLS ID: 885180

COC: 176469:7 Matrix: GW
 Collected: 09/23/15 10:40 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	ND	mg/L	1	0.050	0.10	09/24/15	SW846 9056	721026460
Sulfate, as SO4 (unfiltered)	34	mg/L	1	2.5	5.0	09/24/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					09/30/15	SW846 8260C	721026460

TW-03 NLS ID: 885181

COC: 176469:8 Matrix: GW
 Collected: 09/23/15 16:30 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	ND	mg/L	1	0.050	0.10	09/24/15	SW846 9056	721026460
Sulfate, as SO4 (unfiltered)	43	mg/L	1	2.5	5.0	09/24/15	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					09/30/15	SW846 8260C	721026460

Dup 01 NLS ID: 885182

COC: 176469:9 Matrix: GW
 Collected: 09/22/15 11:10 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					10/01/15	SW846 8260C	721026460

NORTHERN LAKE SERVICE, INC.
 Analytical Laboratory and Environmental Services
 400 North Lake Avenue - Crandon, WI 54520
 Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
 WDATCP Laboratory Certification No. 105-330
 EPA Laboratory ID No. WI00034

Printed: 10/05/15 Code: NNNN-S Page 4 of 4

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 248381

NLS Customer: 104721

Fax: 608 442 9013 **Phone:** 608 442 5223

PO # 42-1-37320-003

Project: DB Oak

Dup 02 NLS ID: 885183

COC: 176469:10 Matrix: GW

Collected: 09/22/15 10:40 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					10/01/15	SW846 8260C	721026460

Outfall at SP-01 NLS ID: 885184

COC: 179102:1 Matrix: SW

Collected: 09/23/15 13:50 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					10/01/15	EPA 624	721026460

Storm Sewer North NLS ID: 885185

COC: 179102:2 Matrix: SW

Collected: 09/23/15 14:40 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					10/01/15	EPA 624	721026460

Trip Blank NLS ID: 885186

COC: 179102:4 Matrix: TB

Collected: 09/23/15 00:00 Received: 09/24/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					10/01/15	NA	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

LOD = Limit of Detection LOQ = Limit of Quantitation ND = Not Detected (< LOD) 1000 ug/L = 1 mg/L
 DWB = Dry Weight Basis NA = Not Applicable %DWB = (mg/kg DWB) / 10000
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
 R. T. Krueger
 President

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 1 of 30

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885164 MW-2 Collected: 09/22/15 Analyzed: 09/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	200	38	130	
Bromobenzene	ND	ug/L	200	42	150	
Bromochloromethane	ND	ug/L	200	40	140	
Bromodichloromethane	ND	ug/L	200	43	150	
Bromoform	ND	ug/L	200	34	120	
Bromomethane	ND	ug/L	200	38	140	
n-Butylbenzene	ND	ug/L	200	55	200	
sec-Butylbenzene	ND	ug/L	200	34	120	
tert-Butylbenzene	ND	ug/L	200	39	140	
Carbon Tetrachloride	ND	ug/L	200	46	160	
Chlorobenzene	ND	ug/L	200	38	140	
Chloroethane	ND	ug/L	200	120	420	
Chloroform	ND	ug/L	200	38	130	
Chloromethane	ND	ug/L	200	29	100	
2-Chlorotoluene	ND	ug/L	200	39	140	
4-Chlorotoluene	ND	ug/L	200	37	130	
Dibromochloromethane	ND	ug/L	200	35	130	
1,2-Dibromo-3-Chloropropane	ND	ug/L	200	28	98	
1,2-Dibromoethane	ND	ug/L	200	36	130	
Dibromomethane	ND	ug/L	200	38	140	
1,2-Dichlorobenzene	ND	ug/L	200	31	110	
1,3-Dichlorobenzene	ND	ug/L	200	33	120	
1,4-Dichlorobenzene	ND	ug/L	200	39	140	
Dichlorodifluoromethane	ND	ug/L	200	37	130	
1,1-Dichloroethane	ND	ug/L	200	41	150	
1,2-Dichloroethane	ND	ug/L	200	40	140	
1,1-Dichloroethene	ND	ug/L	200	31	110	
cis-1,2-Dichloroethene	2400	ug/L	200	45	160	
trans-1,2-Dichloroethene	ND	ug/L	200	35	130	
1,2-Dichloropropane	ND	ug/L	200	57	200	
1,3-Dichloropropane	ND	ug/L	200	35	120	
2,2-Dichloropropane	ND	ug/L	200	40	140	
1,1-Dichloropropene	ND	ug/L	200	40	140	
cis-1,3-Dichloropropene	ND	ug/L	200	38	130	
trans-1,3-Dichloropropene	ND	ug/L	200	31	110	
Ethylbenzene	ND	ug/L	200	35	120	
Hexachlorobutadiene	ND	ug/L	200	39	140	
Isopropylbenzene	ND	ug/L	200	38	130	
p-Isopropyltoluene	ND	ug/L	200	38	130	
Methylene chloride	ND	ug/L	200	36	130	
Naphthalene	ND	ug/L	200	53	190	
n-Propylbenzene	ND	ug/L	200	37	130	
ortho-Xylene	ND	ug/L	200	34	120	
Styrene	ND	ug/L	200	31	110	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	34	120	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	31	110	
Tetrachloroethene	170	ug/L	200	44	150	
Toluene	ND	ug/L	200	40	140	
1,2,3-Trichlorobenzene	ND	ug/L	200	47	170	
1,2,4-Trichlorobenzene	ND	ug/L	200	47	170	
1,1,1-Trichloroethane	ND	ug/L	200	40	140	
1,1,2-Trichloroethane	ND	ug/L	200	39	140	
Trichloroethene	370	ug/L	200	33	120	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885164 MW-2 Collected: 09/22/15 Analyzed: 09/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	200	37	130	
1,2,3-Trichloropropane	ND	ug/L	200	48	170	
1,2,4-Trimethylbenzene	ND	ug/L	200	33	120	
1,3,5-Trimethylbenzene	ND	ug/L	200	41	150	
Vinyl chloride	ND	ug/L	200	39	140	
meta,para-Xylene	ND	ug/L	200	79	280	
MTBE	ND	ug/L	200	35	130	
Isopropyl ether	ND	ug/L	200	41	150	
Dibromofluoromethane (SURR)	113%					S
Toluene-d8 (SURR)	107%					S
1-Bromo-4-Fluorobenzene (SURR)	101%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 3 of 30

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885165 MW-2A Collected: 09/22/15 Analyzed: 09/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	200	38	130	
Bromobenzene	ND	ug/L	200	42	150	
Bromochloromethane	ND	ug/L	200	40	140	
Bromodichloromethane	ND	ug/L	200	43	150	
Bromoform	ND	ug/L	200	34	120	
Bromomethane	ND	ug/L	200	38	140	
n-Butylbenzene	ND	ug/L	200	55	200	
sec-Butylbenzene	ND	ug/L	200	34	120	
tert-Butylbenzene	ND	ug/L	200	39	140	
Carbon Tetrachloride	ND	ug/L	200	46	160	
Chlorobenzene	ND	ug/L	200	38	140	
Chloroethane	ND	ug/L	200	120	420	
Chloroform	ND	ug/L	200	38	130	
Chloromethane	ND	ug/L	200	29	100	
2-Chlorotoluene	ND	ug/L	200	39	140	
4-Chlorotoluene	ND	ug/L	200	37	130	
Dibromochloromethane	ND	ug/L	200	35	130	
1,2-Dibromo-3-Chloropropane	ND	ug/L	200	28	98	
1,2-Dibromoethane	ND	ug/L	200	36	130	
Dibromomethane	ND	ug/L	200	38	140	
1,2-Dichlorobenzene	ND	ug/L	200	31	110	
1,3-Dichlorobenzene	ND	ug/L	200	33	120	
1,4-Dichlorobenzene	ND	ug/L	200	39	140	
Dichlorodifluoromethane	ND	ug/L	200	37	130	
1,1-Dichloroethane	ND	ug/L	200	41	150	
1,2-Dichloroethane	ND	ug/L	200	40	140	
1,1-Dichloroethene	ND	ug/L	200	31	110	
cis-1,2-Dichloroethene	2000	ug/L	200	45	160	
trans-1,2-Dichloroethene	ND	ug/L	200	35	130	
1,2-Dichloropropane	ND	ug/L	200	57	200	
1,3-Dichloropropane	ND	ug/L	200	35	120	
2,2-Dichloropropane	ND	ug/L	200	40	140	
1,1-Dichloropropene	ND	ug/L	200	40	140	
cis-1,3-Dichloropropene	ND	ug/L	200	38	130	
trans-1,3-Dichloropropene	ND	ug/L	200	31	110	
Ethylbenzene	ND	ug/L	200	35	120	
Hexachlorobutadiene	ND	ug/L	200	39	140	
Isopropylbenzene	ND	ug/L	200	38	130	
p-Isopropyltoluene	ND	ug/L	200	38	130	
Methylene chloride	ND	ug/L	200	36	130	
Naphthalene	ND	ug/L	200	53	190	
n-Propylbenzene	ND	ug/L	200	37	130	
ortho-Xylene	ND	ug/L	200	34	120	
Styrene	ND	ug/L	200	31	110	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	34	120	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	31	110	
Tetrachloroethene	ND	ug/L	200	44	150	
Toluene	ND	ug/L	200	40	140	
1,2,3-Trichlorobenzene	ND	ug/L	200	47	170	
1,2,4-Trichlorobenzene	ND	ug/L	200	47	170	
1,1,1-Trichloroethane	ND	ug/L	200	40	140	
1,1,2-Trichloroethane	ND	ug/L	200	39	140	
Trichloroethene	ND	ug/L	200	33	120	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885165 MW-2A Collected: 09/22/15 Analyzed: 09/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	200	37	130	
1,2,3-Trichloropropane	ND	ug/L	200	48	170	
1,2,4-Trimethylbenzene	ND	ug/L	200	33	120	
1,3,5-Trimethylbenzene	ND	ug/L	200	41	150	
Vinyl chloride	[47]	ug/L	200	39	140	
meta,para-Xylene	ND	ug/L	200	79	280	
MTBE	ND	ug/L	200	35	130	
Isopropyl ether	ND	ug/L	200	41	150	
Dibromofluoromethane (SURR)	113%					S
Toluene-d8 (SURR)	104%					S
1-Bromo-4-Fluorobenzene (SURR)	101%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 5 of 30

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885166 MW-2B Collected: 09/22/15 Analyzed: 09/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	5.6	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	13	ug/L	1	0.22	0.77	
Toluene	ND	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	7.8	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885166 MW-2B Collected: 09/22/15 Analyzed: 09/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	ND	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	114%					S
Toluene-d8 (SURR)	105%					S
1-Bromo-4-Fluorobenzene (SURR)	99%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 7 of 30

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885167 MW-3 Collected: 09/23/15 Analyzed: 09/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	[0.32]	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	1.1	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	[0.34]	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	[0.51]	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	[0.22]	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	[0.41]	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	ND	ug/L	1	0.22	0.77	
Toluene	ND	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885167 MW-3 Collected: 09/23/15 Analyzed: 09/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	[0.19]	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	1.7	ug/L	1	0.20	0.70	
meta,para-Xylene	[0.61]	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	115%					S
Toluene-d8 (SURR)	110%					S
1-Bromo-4-Fluorobenzene (SURR)	103%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 9 of 30

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885176 MW-7B Collected: 09/22/15 Analyzed: 10/01/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	[0.77]	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	6.4	ug/L	1	0.22	0.77	
Toluene	ND	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	1.5	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885176 MW-7B Collected: 09/22/15 Analyzed: 10/01/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	[0.23]	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	124%					S
Toluene-d8 (SURR)	108%					S
1-Bromo-4-Fluorobenzene (SURR)	109%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 11 of 30

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885177 MW-9 Collected: 09/22/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	200	38	130	
Bromobenzene	ND	ug/L	200	42	150	
Bromochloromethane	ND	ug/L	200	40	140	
Bromodichloromethane	ND	ug/L	200	43	150	
Bromoform	ND	ug/L	200	34	120	
Bromomethane	ND	ug/L	200	38	140	
n-Butylbenzene	ND	ug/L	200	55	200	
sec-Butylbenzene	ND	ug/L	200	34	120	
tert-Butylbenzene	ND	ug/L	200	39	140	
Carbon Tetrachloride	ND	ug/L	200	46	160	
Chlorobenzene	ND	ug/L	200	38	140	
Chloroethane	ND	ug/L	200	120	420	
Chloroform	ND	ug/L	200	38	130	
Chloromethane	ND	ug/L	200	29	100	
2-Chlorotoluene	ND	ug/L	200	39	140	
4-Chlorotoluene	ND	ug/L	200	37	130	
Dibromochloromethane	ND	ug/L	200	35	130	
1,2-Dibromo-3-Chloropropane	ND	ug/L	200	28	98	
1,2-Dibromoethane	ND	ug/L	200	36	130	
Dibromomethane	ND	ug/L	200	38	140	
1,2-Dichlorobenzene	ND	ug/L	200	31	110	
1,3-Dichlorobenzene	ND	ug/L	200	33	120	
1,4-Dichlorobenzene	ND	ug/L	200	39	140	
Dichlorodifluoromethane	ND	ug/L	200	37	130	
1,1-Dichloroethane	ND	ug/L	200	41	150	
1,2-Dichloroethane	ND	ug/L	200	40	140	
1,1-Dichloroethene	ND	ug/L	200	31	110	
cis-1,2-Dichloroethene	3400	ug/L	200	45	160	
trans-1,2-Dichloroethene	ND	ug/L	200	35	130	
1,2-Dichloropropane	ND	ug/L	200	57	200	
1,3-Dichloropropane	ND	ug/L	200	35	120	
2,2-Dichloropropane	ND	ug/L	200	40	140	
1,1-Dichloropropene	ND	ug/L	200	40	140	
cis-1,3-Dichloropropene	ND	ug/L	200	38	130	
trans-1,3-Dichloropropene	ND	ug/L	200	31	110	
Ethylbenzene	ND	ug/L	200	35	120	
Hexachlorobutadiene	ND	ug/L	200	39	140	
Isopropylbenzene	ND	ug/L	200	38	130	
p-Isopropyltoluene	ND	ug/L	200	38	130	
Methylene chloride	ND	ug/L	200	36	130	
Naphthalene	ND	ug/L	200	53	190	
n-Propylbenzene	ND	ug/L	200	37	130	
ortho-Xylene	ND	ug/L	200	34	120	
Styrene	ND	ug/L	200	31	110	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	34	120	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	31	110	
Tetrachloroethene	ND	ug/L	200	44	150	
Toluene	[61]	ug/L	200	40	140	BD LB
1,2,3-Trichlorobenzene	ND	ug/L	200	47	170	
1,2,4-Trichlorobenzene	ND	ug/L	200	47	170	
1,1,1-Trichloroethane	ND	ug/L	200	40	140	
1,1,2-Trichloroethane	ND	ug/L	200	39	140	
Trichloroethene	ND	ug/L	200	33	120	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885177 MW-9 Collected: 09/22/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	200	37	130	
1,2,3-Trichloropropane	ND	ug/L	200	48	170	
1,2,4-Trimethylbenzene	ND	ug/L	200	33	120	
1,3,5-Trimethylbenzene	ND	ug/L	200	41	150	
Vinyl chloride	230	ug/L	200	39	140	
meta,para-Xylene	ND	ug/L	200	79	280	
MTBE	ND	ug/L	200	35	130	
Isopropyl ether	ND	ug/L	200	41	150	
Dibromofluoromethane (SURR)	121%					S
Toluene-d8 (SURR)	108%					S
1-Bromo-4-Fluorobenzene (SURR)	108%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

LB = Compound is suspected of being a laboratory contaminant.

BD = Compound was detected in the laboratory method blank.

Toluene detected at .2 ug/L.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 13 of 30

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885178 MW-9A Collected: 09/22/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	25	4.7	17	
Bromobenzene	ND	ug/L	25	5.3	19	
Bromochloromethane	ND	ug/L	25	5.1	18	
Bromodichloromethane	ND	ug/L	25	5.4	19	
Bromoform	ND	ug/L	25	4.3	15	
Bromomethane	ND	ug/L	25	4.8	17	
n-Butylbenzene	ND	ug/L	25	6.9	25	
sec-Butylbenzene	ND	ug/L	25	4.3	15	
tert-Butylbenzene	ND	ug/L	25	4.8	17	
Carbon Tetrachloride	ND	ug/L	25	5.7	20	
Chlorobenzene	ND	ug/L	25	4.8	17	
Chloroethane	ND	ug/L	25	15	52	
Chloroform	ND	ug/L	25	4.7	17	
Chloromethane	ND	ug/L	25	3.6	13	
2-Chlorotoluene	ND	ug/L	25	4.9	17	
4-Chlorotoluene	ND	ug/L	25	4.6	16	
Dibromochloromethane	ND	ug/L	25	4.4	16	
1,2-Dibromo-3-Chloropropane	ND	ug/L	25	3.5	12	
1,2-Dibromoethane	ND	ug/L	25	4.5	16	
Dibromomethane	ND	ug/L	25	4.8	17	
1,2-Dichlorobenzene	ND	ug/L	25	3.9	14	
1,3-Dichlorobenzene	ND	ug/L	25	4.1	15	
1,4-Dichlorobenzene	ND	ug/L	25	4.9	17	
Dichlorodifluoromethane	ND	ug/L	25	4.7	17	
1,1-Dichloroethane	ND	ug/L	25	5.1	18	
1,2-Dichloroethane	ND	ug/L	25	5.0	18	
1,1-Dichloroethene	ND	ug/L	25	3.8	14	
cis-1,2-Dichloroethene	290	ug/L	25	5.6	20	
trans-1,2-Dichloroethene	ND	ug/L	25	4.4	16	
1,2-Dichloropropane	ND	ug/L	25	7.2	25	
1,3-Dichloropropane	ND	ug/L	25	4.4	16	
2,2-Dichloropropane	ND	ug/L	25	5.0	18	
1,1-Dichloropropene	ND	ug/L	25	5.0	18	
cis-1,3-Dichloropropene	ND	ug/L	25	4.7	17	
trans-1,3-Dichloropropene	ND	ug/L	25	3.9	14	
Ethylbenzene	ND	ug/L	25	4.4	15	
Hexachlorobutadiene	ND	ug/L	25	4.8	17	
Isopropylbenzene	ND	ug/L	25	4.7	17	
p-Isopropyltoluene	ND	ug/L	25	4.7	17	
Methylene chloride	ND	ug/L	25	4.5	16	
Naphthalene	ND	ug/L	25	6.7	24	
n-Propylbenzene	ND	ug/L	25	4.6	16	
ortho-Xylene	ND	ug/L	25	4.3	15	
Styrene	ND	ug/L	25	3.8	14	
1,1,1,2-Tetrachloroethane	ND	ug/L	25	4.2	15	
1,1,2,2-Tetrachloroethane	ND	ug/L	25	3.9	14	
Tetrachloroethene	ND	ug/L	25	5.5	19	
Toluene	[7.5]	ug/L	25	5.0	18	BD LB
1,2,3-Trichlorobenzene	ND	ug/L	25	5.8	21	
1,2,4-Trichlorobenzene	ND	ug/L	25	5.9	21	
1,1,1-Trichloroethane	ND	ug/L	25	5.0	18	
1,1,2-Trichloroethane	ND	ug/L	25	4.9	17	
Trichloroethene	ND	ug/L	25	4.2	15	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885178 MW-9A Collected: 09/22/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	25	4.7	16	
1,2,3-Trichloropropane	ND	ug/L	25	6.1	22	
1,2,4-Trimethylbenzene	ND	ug/L	25	4.2	15	
1,3,5-Trimethylbenzene	ND	ug/L	25	5.1	18	
Vinyl chloride	ND	ug/L	25	4.9	17	
meta,para-Xylene	ND	ug/L	25	9.9	35	
MTBE	ND	ug/L	25	4.4	16	
Isopropyl ether	ND	ug/L	25	5.2	18	
Dibromofluoromethane (SURR)	119%					S
Toluene-d8 (SURR)	105%					S
1-Bromo-4-Fluorobenzene (SURR)	105%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

LB = Compound is suspected of being a laboratory contaminant.

BD = Compound was detected in the laboratory method blank.

Toluene detected at .2 ug/L.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 15 of 30

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885179 TW-01 Collected: 09/23/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	[0.35]	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	ND	ug/L	1	0.22	0.77	
Toluene	ND	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885179 TW-01 Collected: 09/23/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	0.86	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	109%					S
Toluene-d8 (SURR)	98%					S
1-Bromo-4-Fluorobenzene (SURR)	100%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 17 of 30

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title:

Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885180 TW-02 Collected: 09/23/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	40	7.5	27	
Bromobenzene	ND	ug/L	40	8.4	30	
Bromochloromethane	ND	ug/L	40	8.1	29	
Bromodichloromethane	ND	ug/L	40	8.6	30	
Bromoform	ND	ug/L	40	6.9	24	
Bromomethane	ND	ug/L	40	7.6	27	
n-Butylbenzene	ND	ug/L	40	11	39	
sec-Butylbenzene	ND	ug/L	40	6.8	24	
tert-Butylbenzene	ND	ug/L	40	7.7	27	
Carbon Tetrachloride	ND	ug/L	40	9.2	32	
Chlorobenzene	ND	ug/L	40	7.7	27	
Chloroethane	ND	ug/L	40	24	84	
Chloroform	ND	ug/L	40	7.5	27	
Chloromethane	ND	ug/L	40	5.7	20	
2-Chlorotoluene	ND	ug/L	40	7.8	28	
4-Chlorotoluene	ND	ug/L	40	7.3	26	
Dibromochloromethane	ND	ug/L	40	7.1	25	
1,2-Dibromo-3-Chloropropane	ND	ug/L	40	5.5	20	
1,2-Dibromoethane	ND	ug/L	40	7.2	25	
Dibromomethane	ND	ug/L	40	7.7	27	
1,2-Dichlorobenzene	ND	ug/L	40	6.2	22	
1,3-Dichlorobenzene	ND	ug/L	40	6.6	23	
1,4-Dichlorobenzene	ND	ug/L	40	7.9	28	
Dichlorodifluoromethane	ND	ug/L	40	7.4	26	
1,1-Dichloroethane	ND	ug/L	40	8.2	29	
1,2-Dichloroethane	ND	ug/L	40	7.9	28	
1,1-Dichloroethene	ND	ug/L	40	6.1	22	
cis-1,2-Dichloroethene	470	ug/L	40	8.9	32	
trans-1,2-Dichloroethene	[15]	ug/L	40	7.1	25	
1,2-Dichloropropane	ND	ug/L	40	11	41	
1,3-Dichloropropane	ND	ug/L	40	7.0	25	
2,2-Dichloropropane	ND	ug/L	40	8.0	28	
1,1-Dichloropropene	ND	ug/L	40	8.0	28	
cis-1,3-Dichloropropene	ND	ug/L	40	7.6	27	
trans-1,3-Dichloropropene	ND	ug/L	40	6.3	22	
Ethylbenzene	ND	ug/L	40	7.0	25	
Hexachlorobutadiene	ND	ug/L	40	7.7	27	
Isopropylbenzene	ND	ug/L	40	7.5	27	
p-Isopropyltoluene	ND	ug/L	40	7.6	27	
Methylene chloride	ND	ug/L	40	7.2	26	
Naphthalene	ND	ug/L	40	11	38	
n-Propylbenzene	ND	ug/L	40	7.4	26	
ortho-Xylene	ND	ug/L	40	6.9	24	
Styrene	ND	ug/L	40	6.1	22	
1,1,1,2-Tetrachloroethane	ND	ug/L	40	6.7	24	
1,1,2,2-Tetrachloroethane	ND	ug/L	40	6.2	22	
Tetrachloroethene	60	ug/L	40	8.7	31	
Toluene	[14]	ug/L	40	8.0	28	BD LB
1,2,3-Trichlorobenzene	ND	ug/L	40	9.3	33	
1,2,4-Trichlorobenzene	ND	ug/L	40	9.4	33	
1,1,1-Trichloroethane	ND	ug/L	40	8.0	28	
1,1,2-Trichloroethane	ND	ug/L	40	7.8	28	
Trichloroethene	39	ug/L	40	6.6	24	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885180 TW-02 Collected: 09/23/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	40	7.4	26	
1,2,3-Trichloropropane	ND	ug/L	40	9.7	34	
1,2,4-Trimethylbenzene	ND	ug/L	40	6.7	24	
1,3,5-Trimethylbenzene	ND	ug/L	40	8.2	29	
Vinyl chloride	130	ug/L	40	7.8	28	
meta,para-Xylene	ND	ug/L	40	16	56	
MTBE	ND	ug/L	40	7.0	25	
Isopropyl ether	ND	ug/L	40	8.2	29	
Dibromofluoromethane (SURR)	114%					S
Toluene-d8 (SURR)	102%					S
1-Bromo-4-Fluorobenzene (SURR)	104%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

LB = Compound is suspected of being a laboratory contaminant.

BD = Compound was detected in the laboratory method blank.

Toluene detected at .2 ug/L.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 19 of 30

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885181 TW-03 Collected: 09/23/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	80	15	53	
Bromobenzene	ND	ug/L	80	17	60	
Bromochloromethane	ND	ug/L	80	16	57	
Bromodichloromethane	ND	ug/L	80	17	61	
Bromoform	ND	ug/L	80	14	49	
Bromomethane	ND	ug/L	80	15	54	
n-Butylbenzene	ND	ug/L	80	22	78	
sec-Butylbenzene	ND	ug/L	80	14	48	
tert-Butylbenzene	ND	ug/L	80	15	55	
Carbon Tetrachloride	ND	ug/L	80	18	65	
Chlorobenzene	ND	ug/L	80	15	54	
Chloroethane	ND	ug/L	80	47	170	
Chloroform	ND	ug/L	80	15	53	
Chloromethane	ND	ug/L	80	11	41	
2-Chlorotoluene	ND	ug/L	80	16	56	
4-Chlorotoluene	ND	ug/L	80	15	52	
Dibromochloromethane	ND	ug/L	80	14	50	
1,2-Dibromo-3-Chloropropane	ND	ug/L	80	11	39	
1,2-Dibromoethane	ND	ug/L	80	14	51	
Dibromomethane	ND	ug/L	80	15	54	
1,2-Dichlorobenzene	ND	ug/L	80	12	44	
1,3-Dichlorobenzene	ND	ug/L	80	13	46	
1,4-Dichlorobenzene	ND	ug/L	80	16	56	
Dichlorodifluoromethane	ND	ug/L	80	15	53	
1,1-Dichloroethane	ND	ug/L	80	16	58	
1,2-Dichloroethane	ND	ug/L	80	16	56	
1,1-Dichloroethene	ND	ug/L	80	12	43	
cis-1,2-Dichloroethene	1300	ug/L	80	18	63	
trans-1,2-Dichloroethene	ND	ug/L	80	14	50	
1,2-Dichloropropane	ND	ug/L	80	23	81	
1,3-Dichloropropane	ND	ug/L	80	14	50	
2,2-Dichloropropane	ND	ug/L	80	16	56	
1,1-Dichloropropene	ND	ug/L	80	16	57	
cis-1,3-Dichloropropene	ND	ug/L	80	15	54	
trans-1,3-Dichloropropene	ND	ug/L	80	13	44	
Ethylbenzene	ND	ug/L	80	14	49	
Hexachlorobutadiene	ND	ug/L	80	15	55	
Isopropylbenzene	ND	ug/L	80	15	53	
p-Isopropyltoluene	ND	ug/L	80	15	54	
Methylene chloride	ND	ug/L	80	14	51	
Naphthalene	ND	ug/L	80	21	76	
n-Propylbenzene	ND	ug/L	80	15	52	
ortho-Xylene	ND	ug/L	80	14	49	
Styrene	ND	ug/L	80	12	44	
1,1,1,2-Tetrachloroethane	ND	ug/L	80	13	48	
1,1,2,2-Tetrachloroethane	ND	ug/L	80	12	44	
Tetrachloroethene	ND	ug/L	80	17	62	
Toluene	[27]	ug/L	80	16	57	BD LB
1,2,3-Trichlorobenzene	ND	ug/L	80	19	66	
1,2,4-Trichlorobenzene	ND	ug/L	80	19	67	
1,1,1-Trichloroethane	ND	ug/L	80	16	56	
1,1,2-Trichloroethane	ND	ug/L	80	16	55	
Trichloroethene	ND	ug/L	80	13	47	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885181 TW-03 Collected: 09/23/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	80	15	53	
1,2,3-Trichloropropane	ND	ug/L	80	19	69	
1,2,4-Trimethylbenzene	ND	ug/L	80	13	47	
1,3,5-Trimethylbenzene	ND	ug/L	80	16	58	
Vinyl chloride	1000	ug/L	80	16	56	
meta,para-Xylene	ND	ug/L	80	32	110	
MTBE	ND	ug/L	80	14	50	
Isopropyl ether	ND	ug/L	80	16	58	
Dibromofluoromethane (SURR)	113%					S
Toluene-d8 (SURR)	105%					S
1-Bromo-4-Fluorobenzene (SURR)	104%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

LB = Compound is suspected of being a laboratory contaminant.

BD = Compound was detected in the laboratory method blank.

Toluene detected at .2 ug/L.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 21 of 30

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885182 Dup 01 Collected: 09/22/15 Analyzed: 10/01/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	250	47	170	
Bromobenzene	ND	ug/L	250	53	190	
Bromochloromethane	ND	ug/L	250	51	180	
Bromodichloromethane	ND	ug/L	250	54	190	
Bromoform	ND	ug/L	250	43	150	
Bromomethane	ND	ug/L	250	48	170	
n-Butylbenzene	ND	ug/L	250	69	250	
sec-Butylbenzene	ND	ug/L	250	43	150	
tert-Butylbenzene	ND	ug/L	250	48	170	
Carbon Tetrachloride	ND	ug/L	250	57	200	
Chlorobenzene	ND	ug/L	250	48	170	
Chloroethane	ND	ug/L	250	150	520	
Chloroform	ND	ug/L	250	47	170	
Chloromethane	ND	ug/L	250	36	130	
2-Chlorotoluene	ND	ug/L	250	49	170	
4-Chlorotoluene	ND	ug/L	250	46	160	
Dibromochloromethane	ND	ug/L	250	44	160	
1,2-Dibromo-3-Chloropropane	ND	ug/L	250	35	120	
1,2-Dibromoethane	ND	ug/L	250	45	160	
Dibromomethane	ND	ug/L	250	48	170	
1,2-Dichlorobenzene	ND	ug/L	250	39	140	
1,3-Dichlorobenzene	ND	ug/L	250	41	150	
1,4-Dichlorobenzene	ND	ug/L	250	49	170	
Dichlorodifluoromethane	ND	ug/L	250	47	170	
1,1-Dichloroethane	ND	ug/L	250	51	180	
1,2-Dichloroethane	ND	ug/L	250	50	180	
1,1-Dichloroethene	ND	ug/L	250	38	140	
cis-1,2-Dichloroethene	4100	ug/L	250	56	200	
trans-1,2-Dichloroethene	ND	ug/L	250	44	160	
1,2-Dichloropropane	ND	ug/L	250	72	250	
1,3-Dichloropropane	ND	ug/L	250	44	160	
2,2-Dichloropropane	ND	ug/L	250	50	180	
1,1-Dichloropropene	ND	ug/L	250	50	180	
cis-1,3-Dichloropropene	ND	ug/L	250	47	170	
trans-1,3-Dichloropropene	ND	ug/L	250	39	140	
Ethylbenzene	ND	ug/L	250	44	150	
Hexachlorobutadiene	ND	ug/L	250	48	170	
Isopropylbenzene	ND	ug/L	250	47	170	
p-Isopropyltoluene	ND	ug/L	250	47	170	
Methylene chloride	ND	ug/L	250	45	160	
Naphthalene	ND	ug/L	250	67	240	
n-Propylbenzene	ND	ug/L	250	46	160	
ortho-Xylene	ND	ug/L	250	43	150	
Styrene	ND	ug/L	250	38	140	
1,1,1,2-Tetrachloroethane	ND	ug/L	250	42	150	
1,1,2,2-Tetrachloroethane	ND	ug/L	250	39	140	
Tetrachloroethene	ND	ug/L	250	55	190	
Toluene	ND	ug/L	250	50	180	
1,2,3-Trichlorobenzene	ND	ug/L	250	58	210	
1,2,4-Trichlorobenzene	ND	ug/L	250	59	210	
1,1,1-Trichloroethane	ND	ug/L	250	50	180	
1,1,2-Trichloroethane	ND	ug/L	250	49	170	
Trichloroethene	ND	ug/L	250	42	150	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885182 Dup 01 Collected: 09/22/15 Analyzed: 10/01/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	250	47	160	
1,2,3-Trichloropropane	ND	ug/L	250	61	220	
1,2,4-Trimethylbenzene	ND	ug/L	250	42	150	
1,3,5-Trimethylbenzene	ND	ug/L	250	51	180	
Vinyl chloride	280	ug/L	250	49	170	
meta,para-Xylene	ND	ug/L	250	99	350	
MTBE	ND	ug/L	250	44	160	
Isopropyl ether	ND	ug/L	250	52	180	
Dibromofluoromethane (SURR)	119%					S
Toluene-d8 (SURR)	107%					S
1-Bromo-4-Fluorobenzene (SURR)	106%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 23 of 30

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885183 Dup 02 Collected: 09/22/15 Analyzed: 10/01/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	50	9.4	33	
Bromobenzene	ND	ug/L	50	11	37	
Bromochloromethane	ND	ug/L	50	10	36	
Bromodichloromethane	ND	ug/L	50	11	38	
Bromoform	ND	ug/L	50	8.6	31	
Bromomethane	ND	ug/L	50	9.5	34	
n-Butylbenzene	ND	ug/L	50	14	49	
sec-Butylbenzene	ND	ug/L	50	8.6	30	
tert-Butylbenzene	ND	ug/L	50	9.7	34	
Carbon Tetrachloride	ND	ug/L	50	11	41	
Chlorobenzene	ND	ug/L	50	9.6	34	
Chloroethane	ND	ug/L	50	30	100	
Chloroform	ND	ug/L	50	9.4	33	
Chloromethane	ND	ug/L	50	7.2	25	
2-Chlorotoluene	ND	ug/L	50	9.8	35	
4-Chlorotoluene	ND	ug/L	50	9.2	32	
Dibromochloromethane	ND	ug/L	50	8.9	31	
1,2-Dibromo-3-Chloropropane	ND	ug/L	50	6.9	24	
1,2-Dibromoethane	ND	ug/L	50	9.0	32	
Dibromomethane	ND	ug/L	50	9.6	34	
1,2-Dichlorobenzene	ND	ug/L	50	7.8	27	
1,3-Dichlorobenzene	ND	ug/L	50	8.2	29	
1,4-Dichlorobenzene	ND	ug/L	50	9.9	35	
Dichlorodifluoromethane	ND	ug/L	50	9.3	33	
1,1-Dichloroethane	ND	ug/L	50	10	36	
1,2-Dichloroethane	ND	ug/L	50	9.9	35	
1,1-Dichloroethene	ND	ug/L	50	7.7	27	
cis-1,2-Dichloroethene	460	ug/L	50	11	40	
trans-1,2-Dichloroethene	[14]	ug/L	50	8.9	31	
1,2-Dichloropropane	ND	ug/L	50	14	51	
1,3-Dichloropropane	ND	ug/L	50	8.8	31	
2,2-Dichloropropane	ND	ug/L	50	10	35	
1,1-Dichloropropene	ND	ug/L	50	10	36	
cis-1,3-Dichloropropene	ND	ug/L	50	9.5	34	
trans-1,3-Dichloropropene	ND	ug/L	50	7.9	28	
Ethylbenzene	ND	ug/L	50	8.7	31	
Hexachlorobutadiene	ND	ug/L	50	9.7	34	
Isopropylbenzene	ND	ug/L	50	9.4	33	
p-Isopropyltoluene	ND	ug/L	50	9.5	34	
Methylene chloride	ND	ug/L	50	9.0	32	
Naphthalene	ND	ug/L	50	13	47	
n-Propylbenzene	ND	ug/L	50	9.2	33	
ortho-Xylene	ND	ug/L	50	8.6	30	
Styrene	ND	ug/L	50	7.7	27	
1,1,1,2-Tetrachloroethane	ND	ug/L	50	8.4	30	
1,1,2,2-Tetrachloroethane	ND	ug/L	50	7.8	27	
Tetrachloroethene	51	ug/L	50	11	39	
Toluene	ND	ug/L	50	10	36	
1,2,3-Trichlorobenzene	ND	ug/L	50	12	41	
1,2,4-Trichlorobenzene	ND	ug/L	50	12	42	
1,1,1-Trichloroethane	ND	ug/L	50	10	35	
1,1,2-Trichloroethane	ND	ug/L	50	9.8	35	
Trichloroethene	35	ug/L	50	8.3	30	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885183 Dup 02 Collected: 09/22/15 Analyzed: 10/01/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	50	9.3	33	
1,2,3-Trichloropropane	ND	ug/L	50	12	43	
1,2,4-Trimethylbenzene	ND	ug/L	50	8.4	30	
1,3,5-Trimethylbenzene	ND	ug/L	50	10	36	
Vinyl chloride	130	ug/L	50	9.8	35	
meta,para-Xylene	ND	ug/L	50	20	70	
MTBE	ND	ug/L	50	8.8	31	
Isopropyl ether	ND	ug/L	50	10	37	
Dibromofluoromethane (SURR)	115%					S
Toluene-d8 (SURR)	105%					S
1-Bromo-4-Fluorobenzene (SURR)	102%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 25 of 30

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885184 Outfall at SP-01 Collected: 09/23/15 Analyzed: 10/01/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	18	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	9.4	ug/L	1	0.22	0.77	
Toluene	ND	ug/L	1	0.20	0.71	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	3.1	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885184 Outfall at SP-01 Collected: 09/23/15 Analyzed: 10/01/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	1.5	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	110%					S
Toluene-d8 (SURR)	103%					S
1-Bromo-4-Fluorobenzene (SURR)	103%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 27 of 30

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885185 Storm Sewer North Collected: 09/23/15 Analyzed: 10/01/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	50	9.4	33	
Bromobenzene	ND	ug/L	50	11	37	
Bromochloromethane	ND	ug/L	50	10	36	
Bromodichloromethane	ND	ug/L	50	11	38	
Bromoform	ND	ug/L	50	8.6	31	
Bromomethane	ND	ug/L	50	9.5	34	
n-Butylbenzene	ND	ug/L	50	14	49	
sec-Butylbenzene	ND	ug/L	50	8.6	30	
tert-Butylbenzene	ND	ug/L	50	9.7	34	
Carbon Tetrachloride	ND	ug/L	50	11	41	
Chlorobenzene	ND	ug/L	50	9.6	34	
Chloroethane	ND	ug/L	50	30	100	
Chloroform	ND	ug/L	50	9.4	33	
Chloromethane	ND	ug/L	50	7.2	25	
2-Chlorotoluene	ND	ug/L	50	9.8	35	
4-Chlorotoluene	ND	ug/L	50	9.2	32	
Dibromochloromethane	ND	ug/L	50	8.9	31	
1,2-Dibromo-3-Chloropropane	ND	ug/L	50	6.9	24	
1,2-Dibromoethane	ND	ug/L	50	9.0	32	
Dibromomethane	ND	ug/L	50	9.6	34	
1,2-Dichlorobenzene	ND	ug/L	50	7.8	27	
1,3-Dichlorobenzene	ND	ug/L	50	8.2	29	
1,4-Dichlorobenzene	ND	ug/L	50	9.9	35	
Dichlorodifluoromethane	ND	ug/L	50	9.3	33	
1,1-Dichloroethane	ND	ug/L	50	10	36	
1,2-Dichloroethane	ND	ug/L	50	9.9	35	
1,1-Dichloroethene	ND	ug/L	50	7.7	27	
cis-1,2-Dichloroethene	250	ug/L	50	11	40	
trans-1,2-Dichloroethene	ND	ug/L	50	8.9	31	
1,2-Dichloropropane	ND	ug/L	50	14	51	
1,3-Dichloropropane	ND	ug/L	50	8.8	31	
2,2-Dichloropropane	ND	ug/L	50	10	35	
1,1-Dichloropropene	ND	ug/L	50	10	36	
cis-1,3-Dichloropropene	ND	ug/L	50	9.5	34	
trans-1,3-Dichloropropene	ND	ug/L	50	7.9	28	
Ethylbenzene	ND	ug/L	50	8.7	31	
Hexachlorobutadiene	ND	ug/L	50	9.7	34	
Isopropylbenzene	ND	ug/L	50	9.4	33	
p-Isopropyltoluene	ND	ug/L	50	9.5	34	
Methylene chloride	ND	ug/L	50	9.0	32	
Naphthalene	ND	ug/L	50	13	47	
n-Propylbenzene	ND	ug/L	50	9.2	33	
ortho-Xylene	ND	ug/L	50	8.6	30	
Styrene	ND	ug/L	50	7.7	27	
1,1,1,2-Tetrachloroethane	ND	ug/L	50	8.4	30	
1,1,2,2-Tetrachloroethane	ND	ug/L	50	7.8	27	
Tetrachloroethene	630	ug/L	50	11	39	
Toluene	ND	ug/L	50	10	36	
1,2,3-Trichlorobenzene	ND	ug/L	50	12	41	
1,2,4-Trichlorobenzene	ND	ug/L	50	12	42	
1,1,1-Trichloroethane	ND	ug/L	50	10	35	
1,1,2-Trichloroethane	ND	ug/L	50	9.8	35	
Trichloroethene	170	ug/L	50	8.3	30	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885185 Storm Sewer North Collected: 09/23/15 Analyzed: 10/01/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	50	9.3	33	
1,2,3-Trichloropropane	ND	ug/L	50	12	43	
1,2,4-Trimethylbenzene	ND	ug/L	50	8.4	30	
1,3,5-Trimethylbenzene	ND	ug/L	50	10	36	
Vinyl chloride	39	ug/L	50	9.8	35	
meta,para-Xylene	ND	ug/L	50	20	70	
MTBE	ND	ug/L	50	8.8	31	
Isopropyl ether	ND	ug/L	50	10	37	
Dibromofluoromethane (SURR)	111%					S
Toluene-d8 (SURR)	98%					S
1-Bromo-4-Fluorobenzene (SURR)	99%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 29 of 30

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title:

Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885186 Trip Blank Collected: 09/23/15 Analyzed: 10/01/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.67	
Bromobenzene	ND	ug/L	1	0.21	0.75	
Bromochloromethane	ND	ug/L	1	0.20	0.72	
Bromodichloromethane	ND	ug/L	1	0.22	0.76	
Bromoform	ND	ug/L	1	0.17	0.61	
Bromomethane	ND	ug/L	1	0.19	0.68	
n-Butylbenzene	ND	ug/L	1	0.28	0.98	
sec-Butylbenzene	ND	ug/L	1	0.17	0.61	
tert-Butylbenzene	ND	ug/L	1	0.19	0.69	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.81	
Chlorobenzene	ND	ug/L	1	0.19	0.68	
Chloroethane	ND	ug/L	1	0.59	2.1	
Chloroform	ND	ug/L	1	0.19	0.67	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.20	0.69	
4-Chlorotoluene	ND	ug/L	1	0.18	0.65	
Dibromochloromethane	ND	ug/L	1	0.18	0.63	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.14	0.49	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.63	
Dibromomethane	ND	ug/L	1	0.19	0.68	
1,2-Dichlorobenzene	ND	ug/L	1	0.16	0.55	
1,3-Dichlorobenzene	ND	ug/L	1	0.16	0.58	
1,4-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
Dichlorodifluoromethane	ND	ug/L	1	0.19	0.66	
1,1-Dichloroethane	ND	ug/L	1	0.21	0.73	
1,2-Dichloroethane	ND	ug/L	1	0.20	0.70	
1,1-Dichloroethene	ND	ug/L	1	0.15	0.54	
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.79	
trans-1,2-Dichloroethene	ND	ug/L	1	0.18	0.63	
1,2-Dichloropropane	ND	ug/L	1	0.29	1.0	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62	
2,2-Dichloropropane	ND	ug/L	1	0.20	0.71	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.71	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.67	
trans-1,3-Dichloropropene	ND	ug/L	1	0.16	0.56	
Ethylbenzene	ND	ug/L	1	0.17	0.62	
Hexachlorobutadiene	ND	ug/L	1	0.19	0.69	
Isopropylbenzene	ND	ug/L	1	0.19	0.67	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.67	
Methylene chloride	ND	ug/L	1	0.18	0.64	
Naphthalene	ND	ug/L	1	0.27	0.95	
n-Propylbenzene	ND	ug/L	1	0.18	0.65	
ortho-Xylene	ND	ug/L	1	0.17	0.61	
Styrene	ND	ug/L	1	0.15	0.54	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.60	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.16	0.55	
Tetrachloroethene	ND	ug/L	1	0.22	0.77	
Toluene	[0.21]	ug/L	1	0.20	0.71	LB
1,2,3-Trichlorobenzene	ND	ug/L	1	0.23	0.83	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.71	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.17	0.59	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SAT3W Printed: 10/05/2015 17:09

Sample: 885186 Trip Blank Collected: 09/23/15 Analyzed: 10/01/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.19	0.66	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.86	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.17	0.59	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
Vinyl chloride	ND	ug/L	1	0.20	0.70	
meta,para-Xylene	ND	ug/L	1	0.40	1.4	
MTBE	ND	ug/L	1	0.18	0.63	
Isopropyl ether	ND	ug/L	1	0.21	0.73	
Dibromofluoromethane (SURR)	116%					S
Toluene-d8 (SURR)	104%					S
1-Bromo-4-Fluorobenzene (SURR)	108%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

LB = Compound is suspected of being a laboratory contaminant.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 1 of 16

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 10/05/2015 17:09

Sample: 885168 MW-3A Collected: 09/23/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1250	370	1300	
Bromobenzene	ND	ug/L	1250	460	1600	
Bromochloromethane	ND	ug/L	1250	300	1100	
Bromodichloromethane	ND	ug/L	1250	220	780	
Bromoform	ND	ug/L	1250	310	1100	
Bromomethane	ND	ug/L	1250	160	540	CC
n-Butylbenzene	ND	ug/L	1250	240	860	
sec-Butylbenzene	ND	ug/L	1250	280	990	
tert-Butylbenzene	ND	ug/L	1250	360	1300	
Carbon Tetrachloride	ND	ug/L	1250	290	1000	
Chlorobenzene	ND	ug/L	1250	240	860	
Chloroethane	ND	ug/L	1250	1500	5400	
Chloroform	ND	ug/L	1250	320	1100	
Chloromethane	ND	ug/L	1250	270	950	
2-Chlorotoluene	ND	ug/L	1250	340	1200	
4-Chlorotoluene	ND	ug/L	1250	350	1200	
Dibromochloromethane	ND	ug/L	1250	310	1100	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1250	310	1100	
1,2-Dibromoethane	ND	ug/L	1250	220	760	
Dibromomethane	ND	ug/L	1250	290	1000	
1,2-Dichlorobenzene	ND	ug/L	1250	220	790	
1,3-Dichlorobenzene	ND	ug/L	1250	290	1000	
1,4-Dichlorobenzene	ND	ug/L	1250	410	1500	
Dichlorodifluoromethane	ND	ug/L	1250	340	1200	
1,1-Dichloroethane	ND	ug/L	1250	310	1100	
1,2-Dichloroethane	ND	ug/L	1250	410	1400	
1,1-Dichloroethene	ND	ug/L	1250	320	1100	
cis-1,2-Dichloroethene	13000	ug/L	1250	370	1300	
trans-1,2-Dichloroethene	ND	ug/L	1250	310	1100	
1,2-Dichloropropane	ND	ug/L	1250	270	950	
1,3-Dichloropropane	ND	ug/L	1250	360	1300	
2,2-Dichloropropane	ND	ug/L	1250	330	1200	
1,1-Dichloropropene	ND	ug/L	1250	360	1300	
cis-1,3-Dichloropropene	ND	ug/L	1250	260	920	
trans-1,3-Dichloropropene	ND	ug/L	1250	210	730	
Ethylbenzene	ND	ug/L	1250	280	980	
Hexachlorobutadiene	ND	ug/L	1250	290	1000	
Isopropylbenzene	ND	ug/L	1250	300	1100	
p-Isopropyltoluene	ND	ug/L	1250	260	940	
Methylene chloride	ND	ug/L	1250	320	1100	
Naphthalene	ND	ug/L	1250	420	1500	
n-Propylbenzene	ND	ug/L	1250	330	1200	
ortho-Xylene	ND	ug/L	1250	320	1100	
Styrene	ND	ug/L	1250	230	800	
1,1,1,2-Tetrachloroethane	ND	ug/L	1250	270	960	
1,1,2,2-Tetrachloroethane	ND	ug/L	1250	360	1300	
Tetrachloroethene	ND	ug/L	1250	270	940	
Toluene	[250]	ug/L	1250	220	790	LB
1,2,3-Trichlorobenzene	ND	ug/L	1250	240	840	
1,2,4-Trichlorobenzene	ND	ug/L	1250	220	760	
1,1,1-Trichloroethane	ND	ug/L	1250	330	1200	
1,1,2-Trichloroethane	ND	ug/L	1250	300	1100	
Trichloroethene	ND	ug/L	1250	380	1400	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 10/05/2015 17:09

Sample: 885168 MW-3A Collected: 09/23/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1250	360	1300	
1,2,3-Trichloropropane	ND	ug/L	1250	300	1000	
1,2,4-Trimethylbenzene	ND	ug/L	1250	260	910	
1,3,5-Trimethylbenzene	ND	ug/L	1250	330	1200	
Vinyl chloride	2500	ug/L	1250	200	690	
meta,para-Xylene	ND	ug/L	1250	520	1800	
MTBE	ND	ug/L	1250	360	1300	
Isopropyl Ether	ND	ug/L	1250	300	1100	
Dibromofluoromethane (SURR)	109%					S
Toluene-d8 (SURR)	107%					S
1-Bromo-4-Fluorobenzene (SURR)	101%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

LB = Compound is suspected of being a laboratory contaminant.

CC = Continuing calibration verification standard recovery was outside QC limits.

Bromomethane recovery 54%

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 3 of 16

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 10/05/2015 17:09

Sample: 885169 MW-3B Collected: 09/23/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	200	59	200	
Bromobenzene	ND	ug/L	200	73	260	
Bromochloromethane	ND	ug/L	200	48	170	
Bromodichloromethane	ND	ug/L	200	35	120	
Bromoform	ND	ug/L	200	50	180	
Bromomethane	ND	ug/L	200	25	86	CC
n-Butylbenzene	ND	ug/L	200	39	140	
sec-Butylbenzene	ND	ug/L	200	45	160	
tert-Butylbenzene	ND	ug/L	200	57	200	
Carbon Tetrachloride	ND	ug/L	200	46	160	
Chlorobenzene	ND	ug/L	200	39	140	
Chloroethane	ND	ug/L	200	250	870	
Chloroform	ND	ug/L	200	51	180	
Chloromethane	ND	ug/L	200	43	150	
2-Chlorotoluene	ND	ug/L	200	54	190	
4-Chlorotoluene	ND	ug/L	200	56	200	
Dibromochloromethane	ND	ug/L	200	50	180	
1,2-Dibromo-3-Chloropropane	ND	ug/L	200	49	170	
1,2-Dibromoethane	ND	ug/L	200	35	120	
Dibromomethane	ND	ug/L	200	46	160	
1,2-Dichlorobenzene	ND	ug/L	200	36	130	
1,3-Dichlorobenzene	ND	ug/L	200	46	160	
1,4-Dichlorobenzene	ND	ug/L	200	66	230	
Dichlorodifluoromethane	ND	ug/L	200	55	200	
1,1-Dichloroethane	ND	ug/L	200	49	170	
1,2-Dichloroethane	ND	ug/L	200	65	230	
1,1-Dichloroethene	ND	ug/L	200	50	180	
cis-1,2-Dichloroethene	980	ug/L	200	60	210	
trans-1,2-Dichloroethene	ND	ug/L	200	50	180	
1,2-Dichloropropane	ND	ug/L	200	43	150	
1,3-Dichloropropane	ND	ug/L	200	57	200	
2,2-Dichloropropane	ND	ug/L	200	53	190	
1,1-Dichloropropene	ND	ug/L	200	57	200	
cis-1,3-Dichloropropene	ND	ug/L	200	42	150	
trans-1,3-Dichloropropene	ND	ug/L	200	34	120	
Ethylbenzene	ND	ug/L	200	44	160	
Hexachlorobutadiene	ND	ug/L	200	47	170	
Isopropylbenzene	ND	ug/L	200	48	170	
p-Isopropyltoluene	ND	ug/L	200	42	150	
Methylene chloride	ND	ug/L	200	51	180	
Naphthalene	ND	ug/L	200	68	240	
n-Propylbenzene	ND	ug/L	200	53	190	
ortho-Xylene	ND	ug/L	200	51	180	
Styrene	ND	ug/L	200	37	130	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	43	150	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	57	200	
Tetrachloroethene	2600	ug/L	200	43	150	
Toluene	[45]	ug/L	200	35	130	LB
1,2,3-Trichlorobenzene	ND	ug/L	200	38	130	
1,2,4-Trichlorobenzene	ND	ug/L	200	35	120	
1,1,1-Trichloroethane	ND	ug/L	200	53	190	
1,1,2-Trichloroethane	ND	ug/L	200	48	170	
Trichloroethene	1300	ug/L	200	61	220	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)**Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003****Project Description: DB Oak****Project Title: Template: SATW Printed: 10/05/2015 17:09**

Sample: 885169 MW-3B Collected: 09/23/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	200	57	200	
1,2,3-Trichloropropane	ND	ug/L	200	47	170	
1,2,4-Trimethylbenzene	ND	ug/L	200	41	150	
1,3,5-Trimethylbenzene	ND	ug/L	200	52	180	
Vinyl chloride	230	ug/L	200	31	110	
meta,para-Xylene	ND	ug/L	200	83	290	
MTBE	ND	ug/L	200	57	200	
Isopropyl Ether	ND	ug/L	200	47	170	
Dibromofluoromethane (SURR)	115%					S
Toluene-d8 (SURR)	104%					S
1-Bromo-4-Fluorobenzene (SURR)	101%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

LB = Compound is suspected of being a laboratory contaminant.

CC = Continuing calibration verification standard recovery was outside QC limits.

Bromomethane recovery 54%

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 5 of 16

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 10/05/2015 17:09

Sample: 885170 MW-3C Collected: 09/23/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.29	1.0	
Bromobenzene	ND	ug/L	1	0.37	1.3	
Bromochloromethane	ND	ug/L	1	0.24	0.85	
Bromodichloromethane	ND	ug/L	1	0.18	0.62	
Bromoform	ND	ug/L	1	0.25	0.89	
Bromomethane	ND	ug/L	1	0.12	0.43	CC
n-Butylbenzene	ND	ug/L	1	0.20	0.69	
sec-Butylbenzene	ND	ug/L	1	0.22	0.79	
tert-Butylbenzene	ND	ug/L	1	0.28	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82	
Chlorobenzene	ND	ug/L	1	0.19	0.69	
Chloroethane	ND	ug/L	1	1.2	4.4	
Chloroform	ND	ug/L	1	0.25	0.90	
Chloromethane	ND	ug/L	1	0.21	0.76	
2-Chlorotoluene	ND	ug/L	1	0.27	0.97	
4-Chlorotoluene	ND	ug/L	1	0.28	0.99	
Dibromochloromethane	ND	ug/L	1	0.25	0.89	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.24	0.86	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.61	
Dibromomethane	ND	ug/L	1	0.23	0.81	
1,2-Dichlorobenzene	ND	ug/L	1	0.18	0.63	
1,3-Dichlorobenzene	ND	ug/L	1	0.23	0.81	
1,4-Dichlorobenzene	ND	ug/L	1	0.33	1.2	
Dichlorodifluoromethane	ND	ug/L	1	0.28	0.98	
1,1-Dichloroethane	ND	ug/L	1	0.25	0.87	
1,2-Dichloroethane	ND	ug/L	1	0.33	1.2	
1,1-Dichloroethene	ND	ug/L	1	0.25	0.89	
cis-1,2-Dichloroethene	1.4	ug/L	1	0.30	1.1	
trans-1,2-Dichloroethene	ND	ug/L	1	0.25	0.89	
1,2-Dichloropropane	ND	ug/L	1	0.21	0.76	
1,3-Dichloropropane	ND	ug/L	1	0.29	1.0	
2,2-Dichloropropane	ND	ug/L	1	0.27	0.95	
1,1-Dichloropropene	ND	ug/L	1	0.29	1.0	
cis-1,3-Dichloropropene	ND	ug/L	1	0.21	0.74	
trans-1,3-Dichloropropene	ND	ug/L	1	0.17	0.58	
Ethylbenzene	ND	ug/L	1	0.22	0.79	
Hexachlorobutadiene	ND	ug/L	1	0.23	0.83	
Isopropylbenzene	ND	ug/L	1	0.24	0.86	
p-Isopropyltoluene	ND	ug/L	1	0.21	0.75	
Methylene chloride	ND	ug/L	1	0.25	0.90	
Naphthalene	ND	ug/L	1	0.34	1.2	
n-Propylbenzene	ND	ug/L	1	0.27	0.95	
ortho-Xylene	ND	ug/L	1	0.26	0.91	
Styrene	ND	ug/L	1	0.19	0.64	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.22	0.77	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	1.0	
Tetrachloroethene	ND	ug/L	1	0.21	0.76	
Toluene	[0.32]	ug/L	1	0.18	0.63	LB
1,2,3-Trichlorobenzene	ND	ug/L	1	0.19	0.67	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.60	
1,1,1-Trichloroethane	ND	ug/L	1	0.26	0.93	
1,1,2-Trichloroethane	ND	ug/L	1	0.24	0.84	
Trichloroethene	ND	ug/L	1	0.31	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 10/05/2015 17:09

Sample: 885170 MW-3C Collected: 09/23/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.29	1.0	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.84	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.92	
Vinyl chloride	[0.18]	ug/L	1	0.16	0.55	
meta,para-Xylene	ND	ug/L	1	0.42	1.5	
MTBE	ND	ug/L	1	0.28	1.0	
Isopropyl Ether	ND	ug/L	1	0.24	0.84	
Dibromofluoromethane (SURR)	116%					S
Toluene-d8 (SURR)	110%					S
1-Bromo-4-Fluorobenzene (SURR)	115%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

LB = Compound is suspected of being a laboratory contaminant.

CC = Continuing calibration verification standard recovery was outside QC limits.

Bromomethane recovery 54%

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 7 of 16

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 10/05/2015 17:09

Sample: 885171 MW-4 Collected: 09/22/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	500	150	510	
Bromobenzene	ND	ug/L	500	180	650	
Bromochloromethane	ND	ug/L	500	120	430	
Bromodichloromethane	ND	ug/L	500	88	310	
Bromoform	ND	ug/L	500	130	440	
Bromomethane	ND	ug/L	500	62	220	CC
n-Butylbenzene	ND	ug/L	500	98	350	
sec-Butylbenzene	ND	ug/L	500	110	390	
tert-Butylbenzene	ND	ug/L	500	140	500	
Carbon Tetrachloride	ND	ug/L	500	120	410	
Chlorobenzene	ND	ug/L	500	97	340	
Chloroethane	ND	ug/L	500	610	2200	
Chloroform	ND	ug/L	500	130	450	
Chloromethane	ND	ug/L	500	110	380	
2-Chlorotoluene	ND	ug/L	500	140	480	
4-Chlorotoluene	ND	ug/L	500	140	490	
Dibromochloromethane	ND	ug/L	500	130	440	
1,2-Dibromo-3-Chloropropane	ND	ug/L	500	120	430	
1,2-Dibromoethane	ND	ug/L	500	88	300	
Dibromomethane	ND	ug/L	500	110	400	
1,2-Dichlorobenzene	ND	ug/L	500	90	320	
1,3-Dichlorobenzene	ND	ug/L	500	110	400	
1,4-Dichlorobenzene	ND	ug/L	500	160	580	
Dichlorodifluoromethane	ND	ug/L	500	140	490	
1,1-Dichloroethane	ND	ug/L	500	120	430	
1,2-Dichloroethane	ND	ug/L	500	160	580	
1,1-Dichloroethene	ND	ug/L	500	130	450	
cis-1,2-Dichloroethene	9700	ug/L	500	150	530	
trans-1,2-Dichloroethene	ND	ug/L	500	130	440	
1,2-Dichloropropane	ND	ug/L	500	110	380	
1,3-Dichloropropane	ND	ug/L	500	140	510	
2,2-Dichloropropane	ND	ug/L	500	130	470	
1,1-Dichloropropene	ND	ug/L	500	140	510	
cis-1,3-Dichloropropene	ND	ug/L	500	100	370	
trans-1,3-Dichloropropene	ND	ug/L	500	84	290	
Ethylbenzene	ND	ug/L	500	110	390	
Hexachlorobutadiene	ND	ug/L	500	120	420	
Isopropylbenzene	ND	ug/L	500	120	430	
p-Isopropyltoluene	ND	ug/L	500	110	370	
Methylene chloride	ND	ug/L	500	130	450	
Naphthalene	ND	ug/L	500	170	600	
n-Propylbenzene	ND	ug/L	500	130	470	
ortho-Xylene	ND	ug/L	500	130	450	
Styrene	ND	ug/L	500	93	320	
1,1,1,2-Tetrachloroethane	ND	ug/L	500	110	380	
1,1,2,2-Tetrachloroethane	ND	ug/L	500	140	500	
Tetrachloroethene	ND	ug/L	500	110	380	
Toluene	[110]	ug/L	500	89	310	LB
1,2,3-Trichlorobenzene	ND	ug/L	500	95	330	
1,2,4-Trichlorobenzene	ND	ug/L	500	88	300	
1,1,1-Trichloroethane	ND	ug/L	500	130	470	
1,1,2-Trichloroethane	ND	ug/L	500	120	420	
Trichloroethene	[510]	ug/L	500	150	540	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 10/05/2015 17:09

Sample: 885171 MW-4 Collected: 09/22/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	500	140	510	
1,2,3-Trichloropropane	ND	ug/L	500	120	420	
1,2,4-Trimethylbenzene	ND	ug/L	500	100	360	
1,3,5-Trimethylbenzene	ND	ug/L	500	130	460	
Vinyl chloride	8000	ug/L	500	78	280	
meta,para-Xylene	ND	ug/L	500	210	740	
MTBE	ND	ug/L	500	140	500	
Isopropyl Ether	ND	ug/L	500	120	420	
Dibromofluoromethane (SURR)	108%					S
Toluene-d8 (SURR)	102%					S
1-Bromo-4-Fluorobenzene (SURR)	101%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

LB = Compound is suspected of being a laboratory contaminant.

CC = Continuing calibration verification standard recovery was outside QC limits.

Bromomethane recovery 54%

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 9 of 16

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 10/05/2015 17:09

Sample: 885172 MW-4A Collected: 09/22/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.29	1.0	
Bromobenzene	ND	ug/L	1	0.37	1.3	
Bromochloromethane	ND	ug/L	1	0.24	0.85	
Bromodichloromethane	ND	ug/L	1	0.18	0.62	
Bromoform	ND	ug/L	1	0.25	0.89	
Bromomethane	ND	ug/L	1	0.12	0.43	CC
n-Butylbenzene	ND	ug/L	1	0.20	0.69	
sec-Butylbenzene	ND	ug/L	1	0.22	0.79	
tert-Butylbenzene	ND	ug/L	1	0.28	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82	
Chlorobenzene	ND	ug/L	1	0.19	0.69	
Chloroethane	ND	ug/L	1	1.2	4.4	
Chloroform	ND	ug/L	1	0.25	0.90	
Chloromethane	ND	ug/L	1	0.21	0.76	
2-Chlorotoluene	ND	ug/L	1	0.27	0.97	
4-Chlorotoluene	ND	ug/L	1	0.28	0.99	
Dibromochloromethane	ND	ug/L	1	0.25	0.89	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.24	0.86	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.61	
Dibromomethane	ND	ug/L	1	0.23	0.81	
1,2-Dichlorobenzene	ND	ug/L	1	0.18	0.63	
1,3-Dichlorobenzene	ND	ug/L	1	0.23	0.81	
1,4-Dichlorobenzene	ND	ug/L	1	0.33	1.2	
Dichlorodifluoromethane	ND	ug/L	1	0.28	0.98	
1,1-Dichloroethane	ND	ug/L	1	0.25	0.87	
1,2-Dichloroethane	ND	ug/L	1	0.33	1.2	
1,1-Dichloroethene	ND	ug/L	1	0.25	0.89	
cis-1,2-Dichloroethene	[0.64]	ug/L	1	0.30	1.1	
trans-1,2-Dichloroethene	ND	ug/L	1	0.25	0.89	
1,2-Dichloropropane	ND	ug/L	1	0.21	0.76	
1,3-Dichloropropane	ND	ug/L	1	0.29	1.0	
2,2-Dichloropropane	ND	ug/L	1	0.27	0.95	
1,1-Dichloropropene	ND	ug/L	1	0.29	1.0	
cis-1,3-Dichloropropene	ND	ug/L	1	0.21	0.74	
trans-1,3-Dichloropropene	ND	ug/L	1	0.17	0.58	
Ethylbenzene	ND	ug/L	1	0.22	0.79	
Hexachlorobutadiene	ND	ug/L	1	0.23	0.83	
Isopropylbenzene	ND	ug/L	1	0.24	0.86	
p-Isopropyltoluene	ND	ug/L	1	0.21	0.75	
Methylene chloride	ND	ug/L	1	0.25	0.90	
Naphthalene	ND	ug/L	1	0.34	1.2	
n-Propylbenzene	ND	ug/L	1	0.27	0.95	
ortho-Xylene	ND	ug/L	1	0.26	0.91	
Styrene	ND	ug/L	1	0.19	0.64	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.22	0.77	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	1.0	
Tetrachloroethene	[0.34]	ug/L	1	0.21	0.76	
Toluene	ND	ug/L	1	0.18	0.63	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.19	0.67	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.60	
1,1,1-Trichloroethane	ND	ug/L	1	0.26	0.93	
1,1,2-Trichloroethane	ND	ug/L	1	0.24	0.84	
Trichloroethene	[0.40]	ug/L	1	0.31	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 10/05/2015 17:09

Sample: 885172 MW-4A Collected: 09/22/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.29	1.0	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.84	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.92	
Vinyl chloride	ND	ug/L	1	0.16	0.55	
meta,para-Xylene	ND	ug/L	1	0.42	1.5	
MTBE	ND	ug/L	1	0.28	1.0	
Isopropyl Ether	ND	ug/L	1	0.24	0.84	
Dibromofluoromethane (SURR)	103%					S
Toluene-d8 (SURR)	104%					S
1-Bromo-4-Fluorobenzene (SURR)	103%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

CC = Continuing calibration verification standard recovery was outside QC limits.

Bromomethane recovery 54%

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 11 of 16

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 10/05/2015 17:09

Sample: 885173 IW-01 Collected: 09/22/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.29	1.0	
Bromobenzene	ND	ug/L	1	0.37	1.3	
Bromochloromethane	ND	ug/L	1	0.24	0.85	
Bromodichloromethane	ND	ug/L	1	0.18	0.62	
Bromoform	ND	ug/L	1	0.25	0.89	
Bromomethane	ND	ug/L	1	0.12	0.43	CC
n-Butylbenzene	ND	ug/L	1	0.20	0.69	
sec-Butylbenzene	ND	ug/L	1	0.22	0.79	
tert-Butylbenzene	ND	ug/L	1	0.28	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82	
Chlorobenzene	ND	ug/L	1	0.19	0.69	
Chloroethane	ND	ug/L	1	1.2	4.4	
Chloroform	ND	ug/L	1	0.25	0.90	
Chloromethane	ND	ug/L	1	0.21	0.76	
2-Chlorotoluene	ND	ug/L	1	0.27	0.97	
4-Chlorotoluene	ND	ug/L	1	0.28	0.99	
Dibromochloromethane	ND	ug/L	1	0.25	0.89	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.24	0.86	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.61	
Dibromomethane	ND	ug/L	1	0.23	0.81	
1,2-Dichlorobenzene	ND	ug/L	1	0.18	0.63	
1,3-Dichlorobenzene	ND	ug/L	1	0.23	0.81	
1,4-Dichlorobenzene	ND	ug/L	1	0.33	1.2	
Dichlorodifluoromethane	ND	ug/L	1	0.28	0.98	
1,1-Dichloroethane	ND	ug/L	1	0.25	0.87	
1,2-Dichloroethane	ND	ug/L	1	0.33	1.2	
1,1-Dichloroethene	ND	ug/L	1	0.25	0.89	
cis-1,2-Dichloroethene	ND	ug/L	1	0.30	1.1	
trans-1,2-Dichloroethene	ND	ug/L	1	0.25	0.89	
1,2-Dichloropropane	ND	ug/L	1	0.21	0.76	
1,3-Dichloropropane	ND	ug/L	1	0.29	1.0	
2,2-Dichloropropane	ND	ug/L	1	0.27	0.95	
1,1-Dichloropropene	ND	ug/L	1	0.29	1.0	
cis-1,3-Dichloropropene	ND	ug/L	1	0.21	0.74	
trans-1,3-Dichloropropene	ND	ug/L	1	0.17	0.58	
Ethylbenzene	ND	ug/L	1	0.22	0.79	
Hexachlorobutadiene	ND	ug/L	1	0.23	0.83	
Isopropylbenzene	ND	ug/L	1	0.24	0.86	
p-Isopropyltoluene	ND	ug/L	1	0.21	0.75	
Methylene chloride	ND	ug/L	1	0.25	0.90	
Naphthalene	ND	ug/L	1	0.34	1.2	
n-Propylbenzene	ND	ug/L	1	0.27	0.95	
ortho-Xylene	ND	ug/L	1	0.26	0.91	
Styrene	ND	ug/L	1	0.19	0.64	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.22	0.77	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	1.0	
Tetrachloroethene	ND	ug/L	1	0.21	0.76	
Toluene	ND	ug/L	1	0.18	0.63	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.19	0.67	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.60	
1,1,1-Trichloroethane	ND	ug/L	1	0.26	0.93	
1,1,2-Trichloroethane	ND	ug/L	1	0.24	0.84	
Trichloroethene	ND	ug/L	1	0.31	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 10/05/2015 17:09

Sample: 885173 IW-01 Collected: 09/22/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.29	1.0	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.84	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.92	
Vinyl chloride	1.4	ug/L	1	0.16	0.55	
meta,para-Xylene	ND	ug/L	1	0.42	1.5	
MTBE	ND	ug/L	1	0.28	1.0	
Isopropyl Ether	ND	ug/L	1	0.24	0.84	
Dibromofluoromethane (SURR)	112%					S
Toluene-d8 (SURR)	105%					S
1-Bromo-4-Fluorobenzene (SURR)	108%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

CC = Continuing calibration verification standard recovery was outside QC limits.

Bromomethane recovery 54%

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 13 of 16

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 10/05/2015 17:09

Sample: 885174 MW-7 Collected: 09/22/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.29	1.0	
Bromobenzene	ND	ug/L	1	0.37	1.3	
Bromochloromethane	ND	ug/L	1	0.24	0.85	
Bromodichloromethane	ND	ug/L	1	0.18	0.62	
Bromoform	ND	ug/L	1	0.25	0.89	
Bromomethane	ND	ug/L	1	0.12	0.43	CC
n-Butylbenzene	ND	ug/L	1	0.20	0.69	
sec-Butylbenzene	ND	ug/L	1	0.22	0.79	
tert-Butylbenzene	ND	ug/L	1	0.28	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82	
Chlorobenzene	ND	ug/L	1	0.19	0.69	
Chloroethane	ND	ug/L	1	1.2	4.4	
Chloroform	ND	ug/L	1	0.25	0.90	
Chloromethane	ND	ug/L	1	0.21	0.76	
2-Chlorotoluene	ND	ug/L	1	0.27	0.97	
4-Chlorotoluene	ND	ug/L	1	0.28	0.99	
Dibromochloromethane	ND	ug/L	1	0.25	0.89	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.24	0.86	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.61	
Dibromomethane	ND	ug/L	1	0.23	0.81	
1,2-Dichlorobenzene	ND	ug/L	1	0.18	0.63	
1,3-Dichlorobenzene	ND	ug/L	1	0.23	0.81	
1,4-Dichlorobenzene	ND	ug/L	1	0.33	1.2	
Dichlorodifluoromethane	ND	ug/L	1	0.28	0.98	
1,1-Dichloroethane	ND	ug/L	1	0.25	0.87	
1,2-Dichloroethane	ND	ug/L	1	0.33	1.2	
1,1-Dichloroethene	ND	ug/L	1	0.25	0.89	
cis-1,2-Dichloroethene	ND	ug/L	1	0.30	1.1	
trans-1,2-Dichloroethene	ND	ug/L	1	0.25	0.89	
1,2-Dichloropropane	ND	ug/L	1	0.21	0.76	
1,3-Dichloropropane	ND	ug/L	1	0.29	1.0	
2,2-Dichloropropane	ND	ug/L	1	0.27	0.95	
1,1-Dichloropropene	ND	ug/L	1	0.29	1.0	
cis-1,3-Dichloropropene	ND	ug/L	1	0.21	0.74	
trans-1,3-Dichloropropene	ND	ug/L	1	0.17	0.58	
Ethylbenzene	ND	ug/L	1	0.22	0.79	
Hexachlorobutadiene	ND	ug/L	1	0.23	0.83	
Isopropylbenzene	ND	ug/L	1	0.24	0.86	
p-Isopropyltoluene	ND	ug/L	1	0.21	0.75	
Methylene chloride	ND	ug/L	1	0.25	0.90	
Naphthalene	ND	ug/L	1	0.34	1.2	
n-Propylbenzene	ND	ug/L	1	0.27	0.95	
ortho-Xylene	ND	ug/L	1	0.26	0.91	
Styrene	ND	ug/L	1	0.19	0.64	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.22	0.77	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	1.0	
Tetrachloroethene	[0.30]	ug/L	1	0.21	0.76	
Toluene	ND	ug/L	1	0.18	0.63	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.19	0.67	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.60	
1,1,1-Trichloroethane	ND	ug/L	1	0.26	0.93	
1,1,2-Trichloroethane	ND	ug/L	1	0.24	0.84	
Trichloroethene	ND	ug/L	1	0.31	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 10/05/2015 17:09

Sample: 885174 MW-7 Collected: 09/22/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.29	1.0	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.84	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.92	
Vinyl chloride	ND	ug/L	1	0.16	0.55	
meta,para-Xylene	ND	ug/L	1	0.42	1.5	
MTBE	ND	ug/L	1	0.28	1.0	
Isopropyl Ether	ND	ug/L	1	0.24	0.84	
Dibromofluoromethane (SURR)	104%					S
Toluene-d8 (SURR)	101%					S
1-Bromo-4-Fluorobenzene (SURR)	100%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

CC = Continuing calibration verification standard recovery was outside QC limits.

Bromomethane recovery 54%

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 15 of 16

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 10/05/2015 17:09

Sample: 885175 MW-7A Collected: 09/22/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	10	2.9	10	
Bromobenzene	ND	ug/L	10	3.7	13	
Bromochloromethane	ND	ug/L	10	2.4	8.5	
Bromodichloromethane	ND	ug/L	10	1.8	6.2	
Bromoform	ND	ug/L	10	2.5	8.9	
Bromomethane	ND	ug/L	10	1.2	4.3	CC
n-Butylbenzene	ND	ug/L	10	2.0	6.9	
sec-Butylbenzene	ND	ug/L	10	2.2	7.9	
tert-Butylbenzene	ND	ug/L	10	2.8	10	
Carbon Tetrachloride	ND	ug/L	10	2.3	8.2	
Chlorobenzene	ND	ug/L	10	1.9	6.9	
Chloroethane	ND	ug/L	10	12	44	
Chloroform	ND	ug/L	10	2.5	9.0	
Chloromethane	ND	ug/L	10	2.1	7.6	
2-Chlorotoluene	ND	ug/L	10	2.7	9.7	
4-Chlorotoluene	ND	ug/L	10	2.8	9.9	
Dibromochloromethane	ND	ug/L	10	2.5	8.9	
1,2-Dibromo-3-Chloropropane	ND	ug/L	10	2.4	8.6	
1,2-Dibromoethane	ND	ug/L	10	1.8	6.1	
Dibromomethane	ND	ug/L	10	2.3	8.1	
1,2-Dichlorobenzene	ND	ug/L	10	1.8	6.3	
1,3-Dichlorobenzene	ND	ug/L	10	2.3	8.1	
1,4-Dichlorobenzene	ND	ug/L	10	3.3	12	
Dichlorodifluoromethane	ND	ug/L	10	2.8	9.8	
1,1-Dichloroethane	ND	ug/L	10	2.5	8.7	
1,2-Dichloroethane	ND	ug/L	10	3.3	12	
1,1-Dichloroethene	ND	ug/L	10	2.5	8.9	
cis-1,2-Dichloroethene	160	ug/L	10	3.0	11	
trans-1,2-Dichloroethene	ND	ug/L	10	2.5	8.9	
1,2-Dichloropropane	ND	ug/L	10	2.1	7.6	
1,3-Dichloropropane	ND	ug/L	10	2.9	10	
2,2-Dichloropropane	ND	ug/L	10	2.7	9.5	
1,1-Dichloropropene	ND	ug/L	10	2.9	10	
cis-1,3-Dichloropropene	ND	ug/L	10	2.1	7.4	
trans-1,3-Dichloropropene	ND	ug/L	10	1.7	5.8	
Ethylbenzene	ND	ug/L	10	2.2	7.9	
Hexachlorobutadiene	ND	ug/L	10	2.3	8.3	
Isopropylbenzene	ND	ug/L	10	2.4	8.6	
p-Isopropyltoluene	ND	ug/L	10	2.1	7.5	
Methylene chloride	ND	ug/L	10	2.5	9.0	
Naphthalene	ND	ug/L	10	3.4	12	
n-Propylbenzene	ND	ug/L	10	2.7	9.5	
ortho-Xylene	ND	ug/L	10	2.6	9.1	
Styrene	ND	ug/L	10	1.9	6.4	
1,1,1,2-Tetrachloroethane	ND	ug/L	10	2.2	7.7	
1,1,2,2-Tetrachloroethane	ND	ug/L	10	2.8	10	
Tetrachloroethene	71	ug/L	10	2.1	7.6	
Toluene	[2.4]	ug/L	10	1.8	6.3	LB
1,2,3-Trichlorobenzene	ND	ug/L	10	1.9	6.7	
1,2,4-Trichlorobenzene	ND	ug/L	10	1.8	6.0	
1,1,1-Trichloroethane	ND	ug/L	10	2.6	9.3	
1,1,2-Trichloroethane	ND	ug/L	10	2.4	8.4	
Trichloroethene	45	ug/L	10	3.1	11	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 248381 PO # 42-1-37320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 10/05/2015 17:09

Sample: 885175 MW-7A Collected: 09/22/15 Analyzed: 09/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	10	2.9	10	
1,2,3-Trichloropropane	ND	ug/L	10	2.4	8.4	
1,2,4-Trimethylbenzene	ND	ug/L	10	2.1	7.3	
1,3,5-Trimethylbenzene	ND	ug/L	10	2.6	9.2	
Vinyl chloride	ND	ug/L	10	1.6	5.5	
meta,para-Xylene	ND	ug/L	10	4.2	15	
MTBE	ND	ug/L	10	2.8	10	
Isopropyl Ether	ND	ug/L	10	2.4	8.4	
Dibromofluoromethane (SURR)	116%					S
Toluene-d8 (SURR)	99%					S
1-Bromo-4-Fluorobenzene (SURR)	103%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

LB = Compound is suspected of being a laboratory contaminant.

CC = Continuing calibration verification standard recovery was outside QC limits.

Bromomethane recovery 54%

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

CLIENT SHANNON & WILSON
 ADDRESS 2110 LUANN LANE,
 CITY MADISON STATE WI ZIP 53713
 PROJECT DESCRIPTION / NO. ~~12-177370~~ DB OAK QUOTATION NO.
 DNR FID # _____ DNR LICENSE # _____
 CONTACT MARK MCCOLLOCH PHONE 608/442-5223
 PURCHASE ORDER NO. 42-1-37320-003 FAX 608/442-9013

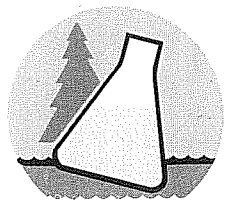
Wisconsin Lab Cert. No. 721026460
 WI DATCP 105-000330

Analytical Laboratory and Environmental Services
 400 North Lake Avenue • Crandon, WI 54520-1298
 Tel: (715) 478-2777 • Fax: (715) 478-3060

MATRIX:
 SW = surface water
 WW = waste water
 GW = groundwater
 DW = drinking water
 TIS = tissue
 AIR = air
 SOIL = soil
 SED = sediment
 PROD = product
 SL = sludge
 OTHER _____

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
 Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS	HCL	NH4	NO3	NO2	SO4													
	40 mL vials																	
	250 mL plastic																	
	125 mL plastic																	



NO. 176470

ITEM NO.	NLS LAB NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS													COLLECTION REMARKS (i.e. DNR Well ID #)
			DATE	TIME		HCL	NH4	NO3	NO2	SO4									
1.	885164	MW-2	09-22-15	1735	GW	2	1	1											
2.	165	MW-2A	09-22	1745	↓	2	1	1											
3.	166	MW-2B	09-22	1725		2	1	1											
4.	167	MW-3	09-23	1100		2	1	1											
5.	168	MW-3A	09-23	1030		2	1	1											
6.	169	MW-3B	09-23	955		2	1	1											
7.	170	MW-3C	09-23	1415		2	1	1											
8.	171	MW-4	09-22	1575		2	1	1											
9.	172	MW-4A	09-22	1570		2	1	1											
10.	173	IW-01	09-22	1145		2	1	1											

COLLECTED BY (signature) Mark A McCulloch CUSTODY SEAL NO. (IF ANY) _____ DATE/TIME 9-23-15 / 1600
 RELINQUISHED BY (signature) _____ RECEIVED BY (signature) _____ DATE/TIME _____
 DISPATCHED BY (signature) _____ METHOD OF TRANSPORT _____ DATE/TIME _____

REPORT TO
MARK MCCOLLOCH
SHANNON & WILSON, INC.
2110 LUANN LANE, Suite 10201
MADISON, WI 53713

RECEIVED AT NLS BY (signature) Mary Heiber DATE/TIME 9/24/15 9:45 CONDITION on ice TEMP. _____
 COOLER # _____ REMARKS & OTHER INFORMATION _____
 PRESERVATIVE: N = nitric acid OH = sodium hydroxide
 NP = no preservative Z = zinc acetate HA = hydrochloric & ascorbic acid
 S = sulfuric acid M = methanol H = hydrochloric acid
 WDNR FACILITY NUMBER _____ E-MAIL ADDRESS _____

INVOICE TO
SAME

IMPORTANT:

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

CLIENT: SHANNON F WILSON
 ADDRESS: 2110 LUANN LANE
 CITY: MADISON STATE: WI ZIP: 53713
 PROJECT DESCRIPTION / NO.: DB OAK QUOTATION NO.:
 DNR FID # DNR LICENSE #
 CONTACT: MARK McELLOCH PHONE: 608/442-5223
 PURCHASE ORDER NO.: 42-1-37320-003 FAX: 608/442-9013

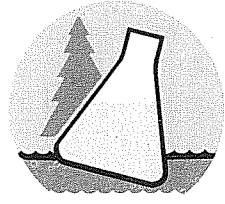
Wisconsin Lab Cert. No. 721026460
 WI DATCP 105-000330

Analytical Laboratory and Environmental Services
 400 North Lake Avenue • Crandon, WI 54520-1298
 Tel: (715) 478-2777 • Fax: (715) 478-3060

MATRIX:
 SW = surface water
 WW = waste water
 GW = groundwater
 DW = drinking water
 TIS = tissue
 AIR = air
 SOIL = soil
 SED = sediment
 PROD = product
 SL = sludge
 OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
 Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS	Well	None	H ₂ SO ₄															
	40 mL Vial vials																	
	250 mL plastic																	
	125 mL plastic																	



No. 176469

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS										COLLECTION REMARKS (i.e. DNR Well ID #)			
			DATE	TIME		Well	None	H ₂ SO ₄											
1.	884174	MW-7	09-22-15	1410	GW	2	1	1											
2.	175	MW-7A	09-22	1425		2	1	1											
3.	174	MW-7B	09-22	1355		2	1	1											
4.	177	MW-9	09-22	1115		2	1	1											
5.	178	MW-9A	09-22	1100		2	1	1											
6.	179	TW-01	09-23	1035		2	1	1											
7.	180	TW-02	09-23	1040		2	1	1											
8.	181	TW-03	09-23	1630		2	1	1											
9.	182	DUP#1	09-22	1110		2	6	6											
10.	183	DUP#2	09-23	1040		2	0	0											

COLLECTED BY (signature): *Mark McElloch* CUSTODY SEAL NO. (IF ANY): DATE/TIME: 09-23-15/1600
 RELINQUISHED BY (signature): RECEIVED BY (signature): DATE/TIME:
 DISPATCHED BY (signature): METHOD OF TRANSPORT: DATE/TIME:

REPORT TO: MARK McELLOCH
 SHANNON F WILSON, INC.
 2110 LUANN LANE, SUITE 701
 MADISON, WI

RECEIVED AT NLS BY (signature): *Kathy Huber* DATE/TIME: 9/24/15 9:45 CONDITION: *on ice* TEMP.:
 COOLER # REMARKS & OTHER INFORMATION:
 PRESERVATIVE: N = nitric acid OH = sodium hydroxide
 NP = no preservative Z = zinc acetate HA = hydrochloric & ascorbic acid
 S = sulfuric acid M = methanol H = hydrochloric acid
 WDNR FACILITY NUMBER: E-MAIL ADDRESS:

INVOICE TO:

IMPORTANT:

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

CLIENT *SUANN WOOD & WOLFSON*

ADDRESS *2110 LUANN LAKE, SOUTH TWP 101*

CITY *MADISON* STATE *WI* ZIP *53713*

PROJECT DESCRIPTION / NO. *DB OAK* QUOTATION NO.

DNR FID # _____ DNR LICENSE # _____

CONTACT *MARK McCLOCH* PHONE *608/442-5022*

PURCHASE ORDER NO. *42-1-37320-002* FAX *608/442-9013*

Wisconsin Lab Cert. No. 721026460
WI DATCP 105-000330

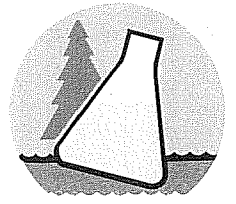
Analytical Laboratory and Environmental Services
400 North Lake Avenue • Crandon, WI 54520-1298
Tel: (715) 478-2777 • Fax: (715) 478-3060

MATRIX:
SW = surface water
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DW = drinking water
TIS = tissue
AIR = air
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS
ADDITIONAL VIALS

PARAMETER



NO. 179102

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS	PARAMETER										COLLECTION REMARKS (i.e. DNR Well ID #)										
			DATE	TIME																							
1.	<i>184</i>	<i>OUTFALL AT SP-01</i>	<i>09-23-15</i>	<i>1350</i>	<i>SW</i>	<i>2</i>																					
2.	<i>185</i>	<i>STORM SEWER NORTH OF SP-1</i>	<i>09-23-15</i>	<i>1440</i>	<i>SW</i>	<i>2</i>																					
3.		<i>OF SP-1</i>																									
4.	<i>186</i>	<i>TRIP BLANK</i>				<i>1</i>																					
5.																											
6.																											
7.																											
8.																											
9.																											
10.																											

COLLECTED BY (signature) *Mark McCloch* CUSTODY SEAL NO. (IF ANY) _____ DATE/TIME *09-23-15 1600*

RELINQUISHED BY (signature) _____ RECEIVED BY (signature) _____ DATE/TIME _____

DISPATCHED BY (signature) _____ METHOD OF TRANSPORT _____ DATE/TIME _____

REPORT TO
MARK McCLOCH
2110 LUANN LAKE
SOUTH TWP 101
MADISON, WI 53713

RECEIVED AT NLS BY (signature) *Frank Johnson* DATE/TIME *9/24/15 9:45* CONDITION *ON ICE* TEMP. _____

COOLER # _____ REMARKS & OTHER INFORMATION _____

PRESERVATIVE: N = nitric acid OH = sodium hydroxide WDNR FACILITY NUMBER _____ E-MAIL ADDRESS _____
NP = no preservative Z = zinc acetate HA = hydrochloric & ascorbic acid
S = sulfuric acid M = methanol H = hydrochloric acid

INVOICE TO
SAVE

IMPORTANT:

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. WI00034

Printed: 10/28/15 Code: NNNN-S Page 1 of 1

Client: Shannon & Wilson, Inc.
Attn: Mark McColloch, P.G.
2110 Luann Lane
Suite 101
Madison, WI 53713

NLS Project: 249226

NLS Customer: 104721

Fax: 608 442 9013 Phone: 608 442 5223
PO # 42-1-37320-003

Project: DB OAK

SED - 1 NLS ID: 887833

COC: 176319:1 Matrix: SO

Collected: 10/07/15 10:00 Received: 10/08/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	61.2	%	1	0.10*		10/08/15	SM 2540-G 20ed	721026460
VOCs (soil) by EPA Method 8260C	see attached					10/27/15	SW846 8260C	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

LOD = Limit of Detection LOQ = Limit of Quantitation ND = Not Detected (< LOD) 1000 ug/L = 1 mg/L
DWB = Dry Weight Basis NA = Not Applicable %DWB = (mg/kg DWB) / 10000
MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
R. T. Krueger
President

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Page 1 of 2

Customer: Shannon & Wilson, Inc. NLS Project: 249226 PO # 42-1-37320-003

Project Description: DB OAK

Project Title: Template: SATS Printed: 10/28/2015 15:10

Sample: 887833 SED - 1 Collected: 10/07/15 Analyzed: 10/26/15 - 61.2%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Benzene	ND	ug/kg	1	30	110	
Bromobenzene	ND	ug/kg	1	32	110	
Bromochloromethane	ND	ug/kg	1	28	100	
Bromodichloromethane	ND	ug/kg	1	31	110	
Bromoform	ND	ug/kg	1	28	98	
Bromomethane	ND	ug/kg	1	9.6	34	
n-Butylbenzene	ND	ug/kg	1	20	69	
sec-Butylbenzene	ND	ug/kg	1	26	91	
tert-Butylbenzene	ND	ug/kg	1	24	85	
Carbon Tetrachloride	ND	ug/kg	1	34	120	
Chlorobenzene	[61]	ug/kg	1	41	150	
Chloroethane	ND	ug/kg	1	190	660	
Chloroform	ND	ug/kg	1	26	92	
Chloromethane	ND	ug/kg	1	12	41	
2-Chlorotoluene	ND	ug/kg	1	29	100	
4-Chlorotoluene	ND	ug/kg	1	28	98	
Dibromochloromethane	ND	ug/kg	1	23	82	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	33	120	
1,2-Dibromoethane	ND	ug/kg	1	23	80	
Dibromomethane	ND	ug/kg	1	24	83	
1,2-Dichlorobenzene	[53]	ug/kg	1	27	96	
1,3-Dichlorobenzene	ND	ug/kg	1	28	100	
1,4-Dichlorobenzene	ND	ug/kg	1	28	98	
Dichlorodifluoromethane	ND	ug/kg	1	26	91	
1,1-Dichloroethane	ND	ug/kg	1	28	98	
1,2-Dichloroethane	ND	ug/kg	1	30	100	
1,1-Dichloroethene	[60]	ug/kg	1	27	97	
cis-1,2-Dichloroethene	18000	ug/kg	40	1000	3600	
trans-1,2-Dichloroethene	290	ug/kg	1	26	93	
1,2-Dichloropropane	ND	ug/kg	1	22	77	
1,3-Dichloropropane	ND	ug/kg	1	28	100	
2,2-Dichloropropane	ND	ug/kg	1	27	94	
1,1-Dichloropropene	ND	ug/kg	1	29	100	
cis-1,3-Dichloropropene	ND	ug/kg	1	25	89	
trans-1,3-Dichloropropene	ND	ug/kg	1	29	100	
Ethylbenzene	180	ug/kg	1	26	91	
Hexachlorobutadiene	ND	ug/kg	1	39	140	
Isopropylbenzene	ND	ug/kg	1	31	110	
p-Isopropyltoluene	[73]	ug/kg	1	24	86	
Methylene chloride	[64]	ug/kg	1	24	86	
Naphthalene	[99]	ug/kg	1	44	150	
n-Propylbenzene	[88]	ug/kg	1	30	110	
ortho-Xylene	180	ug/kg	1	25	88	
Styrene	ND	ug/kg	1	24	86	
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	26	92	
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	31	110	
Tetrachloroethene	96000	ug/kg	40	1100	4000	
Toluene	210	ug/kg	1	27	96	
1,2,3-Trichlorobenzene	ND	ug/kg	1	43	150	
1,2,4-Trichlorobenzene	ND	ug/kg	1	36	130	
1,1,1-Trichloroethane	ND	ug/kg	1	34	120	
1,1,2-Trichloroethane	ND	ug/kg	1	28	100	
Trichloroethene	14000	ug/kg	40	1300	4300	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 249226 PO # 42-1-37320-003

Project Description: DB OAK

Project Title: Template: SATS Printed: 10/28/2015 15:10

Sample: 887833 SED - 1 Collected: 10/07/15 Analyzed: 10/26/15 - 61.2%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Trichlorofluoromethane	450	ug/kg	1	27	94	
1,2,3-Trichloropropane	ND	ug/kg	1	35	120	
1,2,4-Trimethylbenzene	210	ug/kg	1	23	82	
1,3,5-Trimethylbenzene	[75]	ug/kg	1	23	83	
Vinyl chloride	1200	ug/kg	1	11	39	
meta,para-Xylene	490	ug/kg	1	48	170	
MTBE	ND	ug/kg	1	23	82	
Isopropyl Ether	ND	ug/kg	1	28	97	
Dibromofluoromethane (SURR)	104%					S
Toluene-d8 (SURR)	90%					S
1-Bromo-4-Fluorobenzene (SURR)	112%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTH LAKE SERVICE, INC.

CLIENT: **SHANNON & WILSON, INC.**
 ADDRESS: **2110 LUANN LANE, SUITE 101**
 CITY: **MADISON** STATE: **WI** ZIP: **53713**
 PROJECT DESCRIPTION / NO.: **DB OAK** QUOTATION NO.:
 DNR FID # _____ DNR LICENSE # _____
 CONTACT: **MARK M'GLOCH** PHONE: **608/442-5223**
 PURCHASE ORDER NO.: **42-1-37320-003** FAX: **608/442-5013**

Wisconsin Lab Cert. No. 721026460
 WI DATCP 105-000330

Analytical Laboratory and Environmental Services
 400 North Lake Avenue • Crandon, WI 54520-1298
 Tel: (715) 478-2777 • Fax: (715) 478-3060

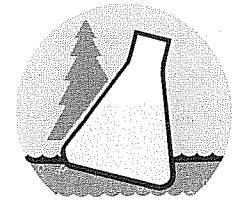
MATRIX:
 SW = surface water
 WW = waste water
 GW = groundwater
 DW = drinking water
 TIS = tissue
 AIR = air
 SOIL = soil
 SED = sediment
 PROD = product
 SL = sludge
 OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
 Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS

4oz glass 120ml plastic

PARAMETER



NO. 176319

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS										COLLECTION REMARKS (i.e. DNR Well ID #)				
			DATE	TIME		1	2	3	4	5	6	7	8	9	10					
1.	887833	SED-1	10-07-15	1000	SED	(VOCs
2.																				
3.																				
4.																				
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				

ONE SAMPLE PER LINE

COLLECTED BY (signature) **Mark M'Gloch** CUSTODY SEAL NO. (IF ANY) _____ DATE/TIME **10-07-15 4:00 PM**

RELINQUISHED BY (signature) _____ RECEIVED BY (signature) _____ DATE/TIME _____

DISPATCHED BY (signature) _____ METHOD OF TRANSPORT _____ DATE/TIME _____

REPORT TO **MARK M'GLOCH**
2110 LUANN LANE, SUITE 101
MADISON, WI 53713

RECEIVED AT NLS BY (signature) **Justin Braun** DATE/TIME **10/8/15 1015** CONDITION **same** TEMP. _____

INVOICE TO **same**

COOLER # _____ REMARKS & OTHER INFORMATION _____

PRESERVATIVE: N = nitric acid OH = sodium hydroxide
 NP = no preservative Z = zinc acetate HA = hydrochloric & ascorbic acid
 S = sulfuric acid M = methanol H = hydrochloric acid

WDNR FACILITY NUMBER _____ E-MAIL ADDRESS _____

IMPORTANT:

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

Appendix E

Laboratory Reports December 2015 Groundwater and October 2015 Sediment Samples

ANALYTICAL REPORT

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 253000

NLS Customer: 104721

Fax: 608 442 9013 **Phone:** 608 442 5223
PO # 42-1-27320-003

Project: DB Oak

TW-02 NLS ID: 898972

COC: 187220:1 Matrix: GW
 Collected: 12/21/15 12:50 Received: 12/22/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					12/28/15	SW846 8260C	721026460

TW-03 NLS ID: 898973

COC: 187220:2 Matrix: GW
 Collected: 12/21/15 10:10 Received: 12/22/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					12/28/15	SW846 8260C	721026460

MW-2 NLS ID: 898974

COC: 187220:3 Matrix: GW
 Collected: 12/21/15 09:40 Received: 12/22/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					12/28/15	SW846 8260C	721026460

MW-2A NLS ID: 898975

COC: 187220:4 Matrix: GW
 Collected: 12/21/15 09:35 Received: 12/22/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					12/28/15	SW846 8260C	721026460

MW-3 NLS ID: 898976

COC: 187220:5 Matrix: GW
 Collected: 12/21/15 12:30 Received: 12/22/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					12/28/15	SW846 8260C	721026460

MW-3A NLS ID: 898977

COC: 187220:6 Matrix: GW
 Collected: 12/21/15 12:25 Received: 12/22/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					12/28/15	SW846 8260C	721026460

MW-3B NLS ID: 898978

COC: 187220:7 Matrix: GW
 Collected: 12/21/15 13:00 Received: 12/22/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					12/28/15	SW846 8260C	721026460

MW-4 NLS ID: 898979

COC: 187220:8 Matrix: GW
 Collected: 12/21/15 10:35 Received: 12/22/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					12/29/15	SW846 8260C	721026460

MW-7A NLS ID: 898980

COC: 187220:9 Matrix: GW
 Collected: 12/21/15 09:00 Received: 12/22/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					12/29/15	SW846 8260C	721026460

ANALYTICAL REPORT

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 253000

NLS Customer: 104721

Fax: 608 442 9013 **Phone:** 608 442 5223
PO # 42-1-27320-003

Project: DB Oak

DUP #1 NLS ID: 898981

COC: 187220:10 Matrix: GW
 Collected: 12/21/15 12:55 Received: 12/22/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					12/29/15	SW846 8260C	721026460

MW-9 NLS ID: 898982

COC: 164242:1 Matrix: GW
 Collected: 12/21/15 08:35 Received: 12/22/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					12/29/15	SW846 8260C	721026460

MW-9A NLS ID: 898983

COC: 164242:2 Matrix: GW
 Collected: 12/21/15 08:30 Received: 12/22/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					12/29/15	SW846 8260C	721026460

Storm Sewer North of SP-01 NLS ID: 898984

COC: 164242:3 Matrix: SW
 Collected: 12/21/15 13:50 Received: 12/22/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					12/30/15	EPA 624	721026460

Outfall at SP-01 NLS ID: 898985

COC: 164242:4 Matrix: SW
 Collected: 12/21/15 13:55 Received: 12/22/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					12/30/15	EPA 624	721026460

Drainage South of SP-01 NLS ID: 898986

COC: 164242:5 Matrix: SW
 Collected: 12/21/15 14:00 Received: 12/22/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					12/30/15	EPA 624	721026460

Trip Blank NLS ID: 898987

COC: 164242:6 Matrix: TB
 Collected: 12/21/15 00:00 Received: 12/22/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					12/30/15	NA	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

LOD = Limit of Detection LOQ = Limit of Quantitation ND = Not Detected (< LOD) 1000 ug/L = 1 mg/L
 DWB = Dry Weight Basis NA = Not Applicable %DWB = (mg/kg DWB) / 10000
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
 R. T. Krueger
 President

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 1 of 32

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898972 TW-02 Collected: 12/21/15 Analyzed: 12/28/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	40	12	41	
Bromobenzene	ND	ug/L	40	15	52	
Bromochloromethane	ND	ug/L	40	9.6	34	
Bromodichloromethane	ND	ug/L	40	7.0	25	
Bromoform	ND	ug/L	40	10	35	
Bromomethane	ND	ug/L	40	5.0	17	
n-Butylbenzene	ND	ug/L	40	7.8	28	
sec-Butylbenzene	ND	ug/L	40	8.9	32	
tert-Butylbenzene	ND	ug/L	40	11	40	
Carbon Tetrachloride	ND	ug/L	40	9.3	33	
Chlorobenzene	ND	ug/L	40	7.8	28	
Chloroethane	ND	ug/L	40	49	170	
Chloroform	ND	ug/L	40	10	36	
Chloromethane	ND	ug/L	40	8.6	30	
2-Chlorotoluene	ND	ug/L	40	11	39	
4-Chlorotoluene	ND	ug/L	40	11	39	
Dibromochloromethane	ND	ug/L	40	10	35	
1,2-Dibromo-3-Chloropropane	ND	ug/L	40	9.8	35	
1,2-Dibromoethane	ND	ug/L	40	7.0	24	
Dibromomethane	ND	ug/L	40	9.1	32	
1,2-Dichlorobenzene	ND	ug/L	40	7.2	25	
1,3-Dichlorobenzene	ND	ug/L	40	9.1	32	
1,4-Dichlorobenzene	ND	ug/L	40	13	47	
Dichlorodifluoromethane	ND	ug/L	40	11	39	
1,1-Dichloroethane	ND	ug/L	40	9.8	35	
1,2-Dichloroethane	ND	ug/L	40	13	46	
1,1-Dichloroethene	ND	ug/L	40	10	36	
cis-1,2-Dichloroethene	550	ug/L	40	12	42	
trans-1,2-Dichloroethene	ND	ug/L	40	10	35	
1,2-Dichloropropane	ND	ug/L	40	8.6	30	
1,3-Dichloropropane	ND	ug/L	40	11	41	
2,2-Dichloropropane	ND	ug/L	40	11	38	
1,1-Dichloropropene	ND	ug/L	40	11	40	
cis-1,3-Dichloropropene	ND	ug/L	40	8.3	29	
trans-1,3-Dichloropropene	ND	ug/L	40	6.7	23	
Ethylbenzene	ND	ug/L	40	8.9	31	
Hexachlorobutadiene	ND	ug/L	40	9.4	33	
Isopropylbenzene	ND	ug/L	40	9.7	34	
p-Isopropyltoluene	ND	ug/L	40	8.4	30	
Methylene chloride	ND	ug/L	40	10	36	
Naphthalene	ND	ug/L	40	14	48	
n-Propylbenzene	ND	ug/L	40	11	38	
ortho-Xylene	ND	ug/L	40	10	36	
Styrene	ND	ug/L	40	7.4	26	
1,1,1,2-Tetrachloroethane	ND	ug/L	40	8.6	31	
1,1,2,2-Tetrachloroethane	ND	ug/L	40	11	40	
Tetrachloroethene	230	ug/L	40	8.5	30	
Toluene	ND	ug/L	40	7.1	25	
1,2,3-Trichlorobenzene	ND	ug/L	40	7.6	27	
1,2,4-Trichlorobenzene	ND	ug/L	40	7.0	24	
1,1,1-Trichloroethane	ND	ug/L	40	11	37	
1,1,2-Trichloroethane	ND	ug/L	40	9.5	34	
Trichloroethene	150	ug/L	40	12	43	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898972 TW-02 Collected: 12/21/15 Analyzed: 12/28/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	40	11	40	
1,2,3-Trichloropropane	ND	ug/L	40	9.4	33	
1,2,4-Trimethylbenzene	ND	ug/L	40	8.2	29	
1,3,5-Trimethylbenzene	ND	ug/L	40	10	37	
Vinyl chloride	160	ug/L	40	6.2	22	
meta,para-Xylene	ND	ug/L	40	17	59	
MTBE	ND	ug/L	40	11	40	
Isopropyl Ether	ND	ug/L	40	9.5	34	
Dibromofluoromethane (SURR)	98%					S
Toluene-d8 (SURR)	93%					S
1-Bromo-4-Fluorobenzene (SURR)	99%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 3 of 32

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898973 TW-03 Collected: 12/21/15 Analyzed: 12/28/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	100	29	100	
Bromobenzene	ND	ug/L	100	37	130	
Bromochloromethane	ND	ug/L	100	24	85	
Bromodichloromethane	ND	ug/L	100	18	62	
Bromoform	ND	ug/L	100	25	89	
Bromomethane	ND	ug/L	100	12	43	
n-Butylbenzene	ND	ug/L	100	20	69	
sec-Butylbenzene	ND	ug/L	100	22	79	
tert-Butylbenzene	ND	ug/L	100	28	100	
Carbon Tetrachloride	ND	ug/L	100	23	82	
Chlorobenzene	ND	ug/L	100	19	69	
Chloroethane	ND	ug/L	100	120	440	
Chloroform	ND	ug/L	100	25	90	
Chloromethane	ND	ug/L	100	21	76	
2-Chlorotoluene	ND	ug/L	100	27	97	
4-Chlorotoluene	ND	ug/L	100	28	99	
Dibromochloromethane	ND	ug/L	100	25	89	
1,2-Dibromo-3-Chloropropane	ND	ug/L	100	24	86	
1,2-Dibromoethane	ND	ug/L	100	18	61	
Dibromomethane	ND	ug/L	100	23	81	
1,2-Dichlorobenzene	ND	ug/L	100	18	63	
1,3-Dichlorobenzene	ND	ug/L	100	23	81	
1,4-Dichlorobenzene	ND	ug/L	100	33	120	
Dichlorodifluoromethane	ND	ug/L	100	28	98	
1,1-Dichloroethane	ND	ug/L	100	25	87	
1,2-Dichloroethane	ND	ug/L	100	33	120	
1,1-Dichloroethene	ND	ug/L	100	25	89	
cis-1,2-Dichloroethene	600	ug/L	100	30	110	
trans-1,2-Dichloroethene	ND	ug/L	100	25	89	
1,2-Dichloropropane	ND	ug/L	100	21	76	
1,3-Dichloropropane	ND	ug/L	100	29	100	
2,2-Dichloropropane	ND	ug/L	100	27	95	
1,1-Dichloropropene	ND	ug/L	100	29	100	
cis-1,3-Dichloropropene	ND	ug/L	100	21	74	
trans-1,3-Dichloropropene	ND	ug/L	100	17	58	
Ethylbenzene	ND	ug/L	100	22	79	
Hexachlorobutadiene	ND	ug/L	100	23	83	
Isopropylbenzene	ND	ug/L	100	24	86	
p-Isopropyltoluene	ND	ug/L	100	21	75	
Methylene chloride	ND	ug/L	100	25	90	
Naphthalene	ND	ug/L	100	34	120	
n-Propylbenzene	ND	ug/L	100	27	95	
ortho-Xylene	ND	ug/L	100	26	91	
Styrene	ND	ug/L	100	19	64	
1,1,1,2-Tetrachloroethane	ND	ug/L	100	22	77	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	28	100	
Tetrachloroethene	[41]	ug/L	100	21	76	
Toluene	ND	ug/L	100	18	63	
1,2,3-Trichlorobenzene	ND	ug/L	100	19	67	
1,2,4-Trichlorobenzene	ND	ug/L	100	18	60	
1,1,1-Trichloroethane	ND	ug/L	100	26	93	
1,1,2-Trichloroethane	ND	ug/L	100	24	84	
Trichloroethene	ND	ug/L	100	31	110	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898973 TW-03 Collected: 12/21/15 Analyzed: 12/28/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	100	29	100	
1,2,3-Trichloropropane	ND	ug/L	100	24	84	
1,2,4-Trimethylbenzene	ND	ug/L	100	21	73	
1,3,5-Trimethylbenzene	ND	ug/L	100	26	92	
Vinyl chloride	950	ug/L	100	16	55	
meta,para-Xylene	ND	ug/L	100	42	150	
MTBE	ND	ug/L	100	28	100	
Isopropyl Ether	ND	ug/L	100	24	84	
Dibromofluoromethane (SURR)	95%					S
Toluene-d8 (SURR)	94%					S
1-Bromo-4-Fluorobenzene (SURR)	97%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 5 of 32

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898974 MW-2 Collected: 12/21/15 Analyzed: 12/28/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	200	59	200	
Bromobenzene	ND	ug/L	200	73	260	
Bromochloromethane	ND	ug/L	200	48	170	
Bromodichloromethane	ND	ug/L	200	35	120	
Bromoform	ND	ug/L	200	50	180	
Bromomethane	ND	ug/L	200	25	86	
n-Butylbenzene	ND	ug/L	200	39	140	
sec-Butylbenzene	ND	ug/L	200	45	160	
tert-Butylbenzene	ND	ug/L	200	57	200	
Carbon Tetrachloride	ND	ug/L	200	46	160	
Chlorobenzene	ND	ug/L	200	39	140	
Chloroethane	ND	ug/L	200	250	870	
Chloroform	ND	ug/L	200	51	180	
Chloromethane	ND	ug/L	200	43	150	
2-Chlorotoluene	ND	ug/L	200	54	190	
4-Chlorotoluene	ND	ug/L	200	56	200	
Dibromochloromethane	ND	ug/L	200	50	180	
1,2-Dibromo-3-Chloropropane	ND	ug/L	200	49	170	
1,2-Dibromoethane	ND	ug/L	200	35	120	
Dibromomethane	ND	ug/L	200	46	160	
1,2-Dichlorobenzene	ND	ug/L	200	36	130	
1,3-Dichlorobenzene	ND	ug/L	200	46	160	
1,4-Dichlorobenzene	ND	ug/L	200	66	230	
Dichlorodifluoromethane	ND	ug/L	200	55	200	
1,1-Dichloroethane	ND	ug/L	200	49	170	
1,2-Dichloroethane	ND	ug/L	200	65	230	
1,1-Dichloroethene	ND	ug/L	200	50	180	
cis-1,2-Dichloroethene	1600	ug/L	200	60	210	
trans-1,2-Dichloroethene	ND	ug/L	200	50	180	
1,2-Dichloropropane	ND	ug/L	200	43	150	
1,3-Dichloropropane	ND	ug/L	200	57	200	
2,2-Dichloropropane	ND	ug/L	200	53	190	
1,1-Dichloropropene	ND	ug/L	200	57	200	
cis-1,3-Dichloropropene	ND	ug/L	200	42	150	
trans-1,3-Dichloropropene	ND	ug/L	200	34	120	
Ethylbenzene	ND	ug/L	200	44	160	
Hexachlorobutadiene	ND	ug/L	200	47	170	
Isopropylbenzene	ND	ug/L	200	48	170	
p-Isopropyltoluene	ND	ug/L	200	42	150	
Methylene chloride	ND	ug/L	200	51	180	
Naphthalene	ND	ug/L	200	68	240	
n-Propylbenzene	ND	ug/L	200	53	190	
ortho-Xylene	ND	ug/L	200	51	180	
Styrene	ND	ug/L	200	37	130	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	43	150	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	57	200	
Tetrachloroethene	150	ug/L	200	43	150	
Toluene	ND	ug/L	200	35	130	
1,2,3-Trichlorobenzene	ND	ug/L	200	38	130	
1,2,4-Trichlorobenzene	ND	ug/L	200	35	120	
1,1,1-Trichloroethane	ND	ug/L	200	53	190	
1,1,2-Trichloroethane	ND	ug/L	200	48	170	
Trichloroethene	280	ug/L	200	61	220	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898974 MW-2 Collected: 12/21/15 Analyzed: 12/28/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	200	57	200	
1,2,3-Trichloropropane	ND	ug/L	200	47	170	
1,2,4-Trimethylbenzene	ND	ug/L	200	41	150	
1,3,5-Trimethylbenzene	ND	ug/L	200	52	180	
Vinyl chloride	ND	ug/L	200	31	110	
meta,para-Xylene	ND	ug/L	200	83	290	
MTBE	ND	ug/L	200	57	200	
Isopropyl Ether	ND	ug/L	200	47	170	
Dibromofluoromethane (SURR)	100%					S
Toluene-d8 (SURR)	97%					S
1-Bromo-4-Fluorobenzene (SURR)	96%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 7 of 32

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898975 MW-2A Collected: 12/21/15 Analyzed: 12/28/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	200	59	200	
Bromobenzene	ND	ug/L	200	73	260	
Bromochloromethane	ND	ug/L	200	48	170	
Bromodichloromethane	ND	ug/L	200	35	120	
Bromoform	ND	ug/L	200	50	180	
Bromomethane	ND	ug/L	200	25	86	
n-Butylbenzene	ND	ug/L	200	39	140	
sec-Butylbenzene	ND	ug/L	200	45	160	
tert-Butylbenzene	ND	ug/L	200	57	200	
Carbon Tetrachloride	ND	ug/L	200	46	160	
Chlorobenzene	ND	ug/L	200	39	140	
Chloroethane	ND	ug/L	200	250	870	
Chloroform	ND	ug/L	200	51	180	
Chloromethane	ND	ug/L	200	43	150	
2-Chlorotoluene	ND	ug/L	200	54	190	
4-Chlorotoluene	ND	ug/L	200	56	200	
Dibromochloromethane	ND	ug/L	200	50	180	
1,2-Dibromo-3-Chloropropane	ND	ug/L	200	49	170	
1,2-Dibromoethane	ND	ug/L	200	35	120	
Dibromomethane	ND	ug/L	200	46	160	
1,2-Dichlorobenzene	ND	ug/L	200	36	130	
1,3-Dichlorobenzene	ND	ug/L	200	46	160	
1,4-Dichlorobenzene	ND	ug/L	200	66	230	
Dichlorodifluoromethane	ND	ug/L	200	55	200	
1,1-Dichloroethane	ND	ug/L	200	49	170	
1,2-Dichloroethane	ND	ug/L	200	65	230	
1,1-Dichloroethene	ND	ug/L	200	50	180	
cis-1,2-Dichloroethene	2200	ug/L	200	60	210	
trans-1,2-Dichloroethene	ND	ug/L	200	50	180	
1,2-Dichloropropane	ND	ug/L	200	43	150	
1,3-Dichloropropane	ND	ug/L	200	57	200	
2,2-Dichloropropane	ND	ug/L	200	53	190	
1,1-Dichloropropene	ND	ug/L	200	57	200	
cis-1,3-Dichloropropene	ND	ug/L	200	42	150	
trans-1,3-Dichloropropene	ND	ug/L	200	34	120	
Ethylbenzene	ND	ug/L	200	44	160	
Hexachlorobutadiene	ND	ug/L	200	47	170	
Isopropylbenzene	ND	ug/L	200	48	170	
p-Isopropyltoluene	ND	ug/L	200	42	150	
Methylene chloride	ND	ug/L	200	51	180	
Naphthalene	ND	ug/L	200	68	240	
n-Propylbenzene	ND	ug/L	200	53	190	
ortho-Xylene	ND	ug/L	200	51	180	
Styrene	ND	ug/L	200	37	130	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	43	150	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	57	200	
Tetrachloroethene	ND	ug/L	200	43	150	
Toluene	ND	ug/L	200	35	130	
1,2,3-Trichlorobenzene	ND	ug/L	200	38	130	
1,2,4-Trichlorobenzene	ND	ug/L	200	35	120	
1,1,1-Trichloroethane	ND	ug/L	200	53	190	
1,1,2-Trichloroethane	ND	ug/L	200	48	170	
Trichloroethene	ND	ug/L	200	61	220	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898975 MW-2A Collected: 12/21/15 Analyzed: 12/28/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	200	57	200	
1,2,3-Trichloropropane	ND	ug/L	200	47	170	
1,2,4-Trimethylbenzene	ND	ug/L	200	41	150	
1,3,5-Trimethylbenzene	ND	ug/L	200	52	180	
Vinyl chloride	[100]	ug/L	200	31	110	
meta,para-Xylene	ND	ug/L	200	83	290	
MTBE	ND	ug/L	200	57	200	
Isopropyl Ether	ND	ug/L	200	47	170	
Dibromofluoromethane (SURR)	89%					S
Toluene-d8 (SURR)	96%					S
1-Bromo-4-Fluorobenzene (SURR)	93%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 9 of 32

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898976 MW-3 Collected: 12/21/15 Analyzed: 12/28/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.29	1.0	
Bromobenzene	ND	ug/L	1	0.37	1.3	
Bromochloromethane	ND	ug/L	1	0.24	0.85	
Bromodichloromethane	ND	ug/L	1	0.18	0.62	
Bromoform	ND	ug/L	1	0.25	0.89	
Bromomethane	ND	ug/L	1	0.12	0.43	
n-Butylbenzene	ND	ug/L	1	0.20	0.69	
sec-Butylbenzene	ND	ug/L	1	0.22	0.79	
tert-Butylbenzene	ND	ug/L	1	0.28	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82	
Chlorobenzene	ND	ug/L	1	0.19	0.69	
Chloroethane	ND	ug/L	1	1.2	4.4	
Chloroform	ND	ug/L	1	0.25	0.90	
Chloromethane	ND	ug/L	1	0.21	0.76	
2-Chlorotoluene	ND	ug/L	1	0.27	0.97	
4-Chlorotoluene	ND	ug/L	1	0.28	0.99	
Dibromochloromethane	ND	ug/L	1	0.25	0.89	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.24	0.86	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.61	
Dibromomethane	ND	ug/L	1	0.23	0.81	
1,2-Dichlorobenzene	ND	ug/L	1	0.18	0.63	
1,3-Dichlorobenzene	ND	ug/L	1	0.23	0.81	
1,4-Dichlorobenzene	ND	ug/L	1	0.33	1.2	
Dichlorodifluoromethane	ND	ug/L	1	0.28	0.98	
1,1-Dichloroethane	ND	ug/L	1	0.25	0.87	
1,2-Dichloroethane	ND	ug/L	1	0.33	1.2	
1,1-Dichloroethene	ND	ug/L	1	0.25	0.89	
cis-1,2-Dichloroethene	3.3	ug/L	1	0.30	1.1	
trans-1,2-Dichloroethene	[0.38]	ug/L	1	0.25	0.89	
1,2-Dichloropropane	ND	ug/L	1	0.21	0.76	
1,3-Dichloropropane	ND	ug/L	1	0.29	1.0	
2,2-Dichloropropane	ND	ug/L	1	0.27	0.95	
1,1-Dichloropropene	ND	ug/L	1	0.29	1.0	
cis-1,3-Dichloropropene	ND	ug/L	1	0.21	0.74	
trans-1,3-Dichloropropene	ND	ug/L	1	0.17	0.58	
Ethylbenzene	[0.23]	ug/L	1	0.22	0.79	
Hexachlorobutadiene	ND	ug/L	1	0.23	0.83	
Isopropylbenzene	ND	ug/L	1	0.24	0.86	
p-Isopropyltoluene	ND	ug/L	1	0.21	0.75	
Methylene chloride	ND	ug/L	1	0.25	0.90	
Naphthalene	ND	ug/L	1	0.34	1.2	
n-Propylbenzene	ND	ug/L	1	0.27	0.95	
ortho-Xylene	ND	ug/L	1	0.26	0.91	
Styrene	ND	ug/L	1	0.19	0.64	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.22	0.77	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	1.0	
Tetrachloroethene	ND	ug/L	1	0.21	0.76	
Toluene	ND	ug/L	1	0.18	0.63	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.19	0.67	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.60	
1,1,1-Trichloroethane	ND	ug/L	1	0.26	0.93	
1,1,2-Trichloroethane	[0.30]	ug/L	1	0.24	0.84	
Trichloroethene	1.3	ug/L	1	0.31	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898976 MW-3 Collected: 12/21/15 Analyzed: 12/28/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.29	1.0	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.84	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.92	
Vinyl chloride	4.8	ug/L	1	0.16	0.55	
meta,para-Xylene	ND	ug/L	1	0.42	1.5	
MTBE	ND	ug/L	1	0.28	1.0	
Isopropyl Ether	ND	ug/L	1	0.24	0.84	
Dibromofluoromethane (SURR)	95%					S
Toluene-d8 (SURR)	91%					S
1-Bromo-4-Fluorobenzene (SURR)	94%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 11 of 32

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898977 MW-3A Collected: 12/21/15 Analyzed: 12/28/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1250	370	1300	
Bromobenzene	ND	ug/L	1250	460	1600	
Bromochloromethane	ND	ug/L	1250	300	1100	
Bromodichloromethane	ND	ug/L	1250	220	780	
Bromoform	ND	ug/L	1250	310	1100	
Bromomethane	ND	ug/L	1250	160	540	
n-Butylbenzene	ND	ug/L	1250	240	860	
sec-Butylbenzene	ND	ug/L	1250	280	990	
tert-Butylbenzene	ND	ug/L	1250	360	1300	
Carbon Tetrachloride	ND	ug/L	1250	290	1000	
Chlorobenzene	ND	ug/L	1250	240	860	
Chloroethane	ND	ug/L	1250	1500	5400	
Chloroform	ND	ug/L	1250	320	1100	
Chloromethane	ND	ug/L	1250	270	950	
2-Chlorotoluene	ND	ug/L	1250	340	1200	
4-Chlorotoluene	ND	ug/L	1250	350	1200	
Dibromochloromethane	ND	ug/L	1250	310	1100	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1250	310	1100	
1,2-Dibromoethane	ND	ug/L	1250	220	760	
Dibromomethane	ND	ug/L	1250	290	1000	
1,2-Dichlorobenzene	ND	ug/L	1250	220	790	
1,3-Dichlorobenzene	ND	ug/L	1250	290	1000	
1,4-Dichlorobenzene	ND	ug/L	1250	410	1500	
Dichlorodifluoromethane	ND	ug/L	1250	340	1200	
1,1-Dichloroethane	ND	ug/L	1250	310	1100	
1,2-Dichloroethane	ND	ug/L	1250	410	1400	
1,1-Dichloroethene	ND	ug/L	1250	320	1100	
cis-1,2-Dichloroethene	12000	ug/L	1250	370	1300	
trans-1,2-Dichloroethene	ND	ug/L	1250	310	1100	
1,2-Dichloropropane	ND	ug/L	1250	270	950	
1,3-Dichloropropane	ND	ug/L	1250	360	1300	
2,2-Dichloropropane	ND	ug/L	1250	330	1200	
1,1-Dichloropropene	ND	ug/L	1250	360	1300	
cis-1,3-Dichloropropene	ND	ug/L	1250	260	920	
trans-1,3-Dichloropropene	ND	ug/L	1250	210	730	
Ethylbenzene	ND	ug/L	1250	280	980	
Hexachlorobutadiene	ND	ug/L	1250	290	1000	
Isopropylbenzene	ND	ug/L	1250	300	1100	
p-Isopropyltoluene	ND	ug/L	1250	260	940	
Methylene chloride	ND	ug/L	1250	320	1100	
Naphthalene	ND	ug/L	1250	420	1500	
n-Propylbenzene	ND	ug/L	1250	330	1200	
ortho-Xylene	ND	ug/L	1250	320	1100	
Styrene	ND	ug/L	1250	230	800	
1,1,1,2-Tetrachloroethane	ND	ug/L	1250	270	960	
1,1,2,2-Tetrachloroethane	ND	ug/L	1250	360	1300	
Tetrachloroethene	ND	ug/L	1250	270	940	
Toluene	ND	ug/L	1250	220	790	
1,2,3-Trichlorobenzene	ND	ug/L	1250	240	840	
1,2,4-Trichlorobenzene	ND	ug/L	1250	220	760	
1,1,1-Trichloroethane	ND	ug/L	1250	330	1200	
1,1,2-Trichloroethane	ND	ug/L	1250	300	1100	
Trichloroethene	ND	ug/L	1250	380	1400	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898977 MW-3A Collected: 12/21/15 Analyzed: 12/28/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1250	360	1300	
1,2,3-Trichloropropane	ND	ug/L	1250	300	1000	
1,2,4-Trimethylbenzene	ND	ug/L	1250	260	910	
1,3,5-Trimethylbenzene	ND	ug/L	1250	330	1200	
Vinyl chloride	2300	ug/L	1250	200	690	
meta,para-Xylene	ND	ug/L	1250	520	1800	
MTBE	ND	ug/L	1250	360	1300	
Isopropyl Ether	ND	ug/L	1250	300	1100	
Dibromofluoromethane (SURR)	94%					S
Toluene-d8 (SURR)	95%					S
1-Bromo-4-Fluorobenzene (SURR)	95%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 13 of 32

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898978 MW-3B Collected: 12/21/15 Analyzed: 12/28/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	200	59	200	
Bromobenzene	ND	ug/L	200	73	260	
Bromochloromethane	ND	ug/L	200	48	170	
Bromodichloromethane	ND	ug/L	200	35	120	
Bromoform	ND	ug/L	200	50	180	
Bromomethane	ND	ug/L	200	25	86	
n-Butylbenzene	ND	ug/L	200	39	140	
sec-Butylbenzene	ND	ug/L	200	45	160	
tert-Butylbenzene	ND	ug/L	200	57	200	
Carbon Tetrachloride	ND	ug/L	200	46	160	
Chlorobenzene	ND	ug/L	200	39	140	
Chloroethane	ND	ug/L	200	250	870	
Chloroform	ND	ug/L	200	51	180	
Chloromethane	ND	ug/L	200	43	150	
2-Chlorotoluene	ND	ug/L	200	54	190	
4-Chlorotoluene	ND	ug/L	200	56	200	
Dibromochloromethane	ND	ug/L	200	50	180	
1,2-Dibromo-3-Chloropropane	ND	ug/L	200	49	170	
1,2-Dibromoethane	ND	ug/L	200	35	120	
Dibromomethane	ND	ug/L	200	46	160	
1,2-Dichlorobenzene	ND	ug/L	200	36	130	
1,3-Dichlorobenzene	ND	ug/L	200	46	160	
1,4-Dichlorobenzene	ND	ug/L	200	66	230	
Dichlorodifluoromethane	ND	ug/L	200	55	200	
1,1-Dichloroethane	ND	ug/L	200	49	170	
1,2-Dichloroethane	ND	ug/L	200	65	230	
1,1-Dichloroethene	ND	ug/L	200	50	180	
cis-1,2-Dichloroethene	900	ug/L	200	60	210	
trans-1,2-Dichloroethene	ND	ug/L	200	50	180	
1,2-Dichloropropane	ND	ug/L	200	43	150	
1,3-Dichloropropane	ND	ug/L	200	57	200	
2,2-Dichloropropane	ND	ug/L	200	53	190	
1,1-Dichloropropene	ND	ug/L	200	57	200	
cis-1,3-Dichloropropene	ND	ug/L	200	42	150	
trans-1,3-Dichloropropene	ND	ug/L	200	34	120	
Ethylbenzene	ND	ug/L	200	44	160	
Hexachlorobutadiene	ND	ug/L	200	47	170	
Isopropylbenzene	ND	ug/L	200	48	170	
p-Isopropyltoluene	ND	ug/L	200	42	150	
Methylene chloride	ND	ug/L	200	51	180	
Naphthalene	ND	ug/L	200	68	240	
n-Propylbenzene	ND	ug/L	200	53	190	
ortho-Xylene	ND	ug/L	200	51	180	
Styrene	ND	ug/L	200	37	130	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	43	150	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	57	200	
Tetrachloroethene	3000	ug/L	200	43	150	
Toluene	ND	ug/L	200	35	130	
1,2,3-Trichlorobenzene	ND	ug/L	200	38	130	
1,2,4-Trichlorobenzene	ND	ug/L	200	35	120	
1,1,1-Trichloroethane	ND	ug/L	200	53	190	
1,1,2-Trichloroethane	ND	ug/L	200	48	170	
Trichloroethene	1400	ug/L	200	61	220	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898978 MW-3B Collected: 12/21/15 Analyzed: 12/28/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	200	57	200	
1,2,3-Trichloropropane	ND	ug/L	200	47	170	
1,2,4-Trimethylbenzene	ND	ug/L	200	41	150	
1,3,5-Trimethylbenzene	ND	ug/L	200	52	180	
Vinyl chloride	220	ug/L	200	31	110	
meta,para-Xylene	ND	ug/L	200	83	290	
MTBE	ND	ug/L	200	57	200	
Isopropyl Ether	ND	ug/L	200	47	170	
Dibromofluoromethane (SURR)	96%					S
Toluene-d8 (SURR)	95%					S
1-Bromo-4-Fluorobenzene (SURR)	96%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 15 of 32

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898979 MW-4 Collected: 12/21/15 Analyzed: 12/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	500	150	510	
Bromobenzene	ND	ug/L	500	180	650	
Bromochloromethane	ND	ug/L	500	120	430	
Bromodichloromethane	ND	ug/L	500	88	310	
Bromoform	ND	ug/L	500	130	440	
Bromomethane	ND	ug/L	500	62	220	
n-Butylbenzene	ND	ug/L	500	98	350	
sec-Butylbenzene	ND	ug/L	500	110	390	
tert-Butylbenzene	ND	ug/L	500	140	500	
Carbon Tetrachloride	ND	ug/L	500	120	410	
Chlorobenzene	ND	ug/L	500	97	340	
Chloroethane	ND	ug/L	500	610	2200	
Chloroform	ND	ug/L	500	130	450	
Chloromethane	ND	ug/L	500	110	380	
2-Chlorotoluene	ND	ug/L	500	140	480	
4-Chlorotoluene	ND	ug/L	500	140	490	
Dibromochloromethane	ND	ug/L	500	130	440	
1,2-Dibromo-3-Chloropropane	ND	ug/L	500	120	430	
1,2-Dibromoethane	ND	ug/L	500	88	300	
Dibromomethane	ND	ug/L	500	110	400	
1,2-Dichlorobenzene	ND	ug/L	500	90	320	
1,3-Dichlorobenzene	ND	ug/L	500	110	400	
1,4-Dichlorobenzene	ND	ug/L	500	160	580	
Dichlorodifluoromethane	ND	ug/L	500	140	490	
1,1-Dichloroethane	ND	ug/L	500	120	430	
1,2-Dichloroethane	ND	ug/L	500	160	580	
1,1-Dichloroethene	ND	ug/L	500	130	450	
cis-1,2-Dichloroethene	3600	ug/L	500	150	530	
trans-1,2-Dichloroethene	ND	ug/L	500	130	440	
1,2-Dichloropropane	ND	ug/L	500	110	380	
1,3-Dichloropropane	ND	ug/L	500	140	510	
2,2-Dichloropropane	ND	ug/L	500	130	470	
1,1-Dichloropropene	ND	ug/L	500	140	510	
cis-1,3-Dichloropropene	ND	ug/L	500	100	370	
trans-1,3-Dichloropropene	ND	ug/L	500	84	290	
Ethylbenzene	ND	ug/L	500	110	390	
Hexachlorobutadiene	ND	ug/L	500	120	420	
Isopropylbenzene	ND	ug/L	500	120	430	
p-Isopropyltoluene	ND	ug/L	500	110	370	
Methylene chloride	ND	ug/L	500	130	450	
Naphthalene	ND	ug/L	500	170	600	
n-Propylbenzene	ND	ug/L	500	130	470	
ortho-Xylene	ND	ug/L	500	130	450	
Styrene	ND	ug/L	500	93	320	
1,1,1,2-Tetrachloroethane	ND	ug/L	500	110	380	
1,1,2,2-Tetrachloroethane	ND	ug/L	500	140	500	
Tetrachloroethene	ND	ug/L	500	110	380	
Toluene	ND	ug/L	500	89	310	
1,2,3-Trichlorobenzene	ND	ug/L	500	95	330	
1,2,4-Trichlorobenzene	ND	ug/L	500	88	300	
1,1,1-Trichloroethane	ND	ug/L	500	130	470	
1,1,2-Trichloroethane	ND	ug/L	500	120	420	
Trichloroethene	ND	ug/L	500	150	540	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898979 MW-4 Collected: 12/21/15 Analyzed: 12/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	500	140	510	
1,2,3-Trichloropropane	ND	ug/L	500	120	420	
1,2,4-Trimethylbenzene	ND	ug/L	500	100	360	
1,3,5-Trimethylbenzene	ND	ug/L	500	130	460	
Vinyl chloride	5100	ug/L	500	78	280	
meta,para-Xylene	ND	ug/L	500	210	740	
MTBE	ND	ug/L	500	140	500	
Isopropyl Ether	ND	ug/L	500	120	420	
Dibromofluoromethane (SURR)	88%					S
Toluene-d8 (SURR)	90%					S
1-Bromo-4-Fluorobenzene (SURR)	96%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 17 of 32

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898980 MW-7A Collected: 12/21/15 Analyzed: 12/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	12.5	3.7	13	
Bromobenzene	ND	ug/L	12.5	4.6	16	
Bromochloromethane	ND	ug/L	12.5	3.0	11	
Bromodichloromethane	ND	ug/L	12.5	2.2	7.8	
Bromoform	ND	ug/L	12.5	3.1	11	
Bromomethane	ND	ug/L	12.5	1.6	5.4	
n-Butylbenzene	ND	ug/L	12.5	2.4	8.6	
sec-Butylbenzene	ND	ug/L	12.5	2.8	9.9	
tert-Butylbenzene	ND	ug/L	12.5	3.6	13	
Carbon Tetrachloride	ND	ug/L	12.5	2.9	10	
Chlorobenzene	ND	ug/L	12.5	2.4	8.6	
Chloroethane	ND	ug/L	12.5	15	54	
Chloroform	ND	ug/L	12.5	3.2	11	
Chloromethane	ND	ug/L	12.5	2.7	9.5	
2-Chlorotoluene	ND	ug/L	12.5	3.4	12	
4-Chlorotoluene	ND	ug/L	12.5	3.5	12	
Dibromochloromethane	ND	ug/L	12.5	3.1	11	
1,2-Dibromo-3-Chloropropane	ND	ug/L	12.5	3.1	11	
1,2-Dibromoethane	ND	ug/L	12.5	2.2	7.6	
Dibromomethane	ND	ug/L	12.5	2.9	10	
1,2-Dichlorobenzene	ND	ug/L	12.5	2.2	7.9	
1,3-Dichlorobenzene	ND	ug/L	12.5	2.9	10	
1,4-Dichlorobenzene	ND	ug/L	12.5	4.1	15	
Dichlorodifluoromethane	ND	ug/L	12.5	3.4	12	
1,1-Dichloroethane	ND	ug/L	12.5	3.1	11	
1,2-Dichloroethane	ND	ug/L	12.5	4.1	14	
1,1-Dichloroethene	ND	ug/L	12.5	3.2	11	
cis-1,2-Dichloroethene	180	ug/L	12.5	3.7	13	
trans-1,2-Dichloroethene	ND	ug/L	12.5	3.1	11	
1,2-Dichloropropane	ND	ug/L	12.5	2.7	9.5	
1,3-Dichloropropane	ND	ug/L	12.5	3.6	13	
2,2-Dichloropropane	ND	ug/L	12.5	3.3	12	
1,1-Dichloropropene	ND	ug/L	12.5	3.6	13	
cis-1,3-Dichloropropene	ND	ug/L	12.5	2.6	9.2	
trans-1,3-Dichloropropene	ND	ug/L	12.5	2.1	7.3	
Ethylbenzene	ND	ug/L	12.5	2.8	9.8	
Hexachlorobutadiene	ND	ug/L	12.5	2.9	10	
Isopropylbenzene	ND	ug/L	12.5	3.0	11	
p-Isopropyltoluene	ND	ug/L	12.5	2.6	9.4	
Methylene chloride	ND	ug/L	12.5	3.2	11	
Naphthalene	ND	ug/L	12.5	4.2	15	
n-Propylbenzene	ND	ug/L	12.5	3.3	12	
ortho-Xylene	ND	ug/L	12.5	3.2	11	
Styrene	ND	ug/L	12.5	2.3	8.0	
1,1,1,2-Tetrachloroethane	ND	ug/L	12.5	2.7	9.6	
1,1,2,2-Tetrachloroethane	ND	ug/L	12.5	3.6	13	
Tetrachloroethene	120	ug/L	12.5	2.7	9.4	
Toluene	ND	ug/L	12.5	2.2	7.9	
1,2,3-Trichlorobenzene	ND	ug/L	12.5	2.4	8.4	
1,2,4-Trichlorobenzene	ND	ug/L	12.5	2.2	7.6	
1,1,1-Trichloroethane	ND	ug/L	12.5	3.3	12	
1,1,2-Trichloroethane	ND	ug/L	12.5	3.0	11	
Trichloroethene	65	ug/L	12.5	3.8	14	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898980 MW-7A Collected: 12/21/15 Analyzed: 12/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	12.5	3.6	13	
1,2,3-Trichloropropane	ND	ug/L	12.5	3.0	10	
1,2,4-Trimethylbenzene	ND	ug/L	12.5	2.6	9.1	
1,3,5-Trimethylbenzene	ND	ug/L	12.5	3.3	12	
Vinyl chloride	ND	ug/L	12.5	2.0	6.9	
meta,para-Xylene	ND	ug/L	12.5	5.2	18	
MTBE	ND	ug/L	12.5	3.6	13	
Isopropyl Ether	ND	ug/L	12.5	3.0	11	
Dibromofluoromethane (SURR)	98%					S
Toluene-d8 (SURR)	91%					S
1-Bromo-4-Fluorobenzene (SURR)	105%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 19 of 32

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898981 DUP #1 Collected: 12/21/15 Analyzed: 12/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	40	12	41	
Bromobenzene	ND	ug/L	40	15	52	
Bromochloromethane	ND	ug/L	40	9.6	34	
Bromodichloromethane	ND	ug/L	40	7.0	25	
Bromoform	ND	ug/L	40	10	35	
Bromomethane	ND	ug/L	40	5.0	17	
n-Butylbenzene	ND	ug/L	40	7.8	28	
sec-Butylbenzene	ND	ug/L	40	8.9	32	
tert-Butylbenzene	ND	ug/L	40	11	40	
Carbon Tetrachloride	ND	ug/L	40	9.3	33	
Chlorobenzene	ND	ug/L	40	7.8	28	
Chloroethane	ND	ug/L	40	49	170	
Chloroform	ND	ug/L	40	10	36	
Chloromethane	ND	ug/L	40	8.6	30	
2-Chlorotoluene	ND	ug/L	40	11	39	
4-Chlorotoluene	ND	ug/L	40	11	39	
Dibromochloromethane	ND	ug/L	40	10	35	
1,2-Dibromo-3-Chloropropane	ND	ug/L	40	9.8	35	
1,2-Dibromoethane	ND	ug/L	40	7.0	24	
Dibromomethane	ND	ug/L	40	9.1	32	
1,2-Dichlorobenzene	ND	ug/L	40	7.2	25	
1,3-Dichlorobenzene	ND	ug/L	40	9.1	32	
1,4-Dichlorobenzene	ND	ug/L	40	13	47	
Dichlorodifluoromethane	ND	ug/L	40	11	39	
1,1-Dichloroethane	ND	ug/L	40	9.8	35	
1,2-Dichloroethane	ND	ug/L	40	13	46	
1,1-Dichloroethene	ND	ug/L	40	10	36	
cis-1,2-Dichloroethene	540	ug/L	40	12	42	
trans-1,2-Dichloroethene	[25]	ug/L	40	10	35	
1,2-Dichloropropane	ND	ug/L	40	8.6	30	
1,3-Dichloropropane	ND	ug/L	40	11	41	
2,2-Dichloropropane	ND	ug/L	40	11	38	
1,1-Dichloropropene	ND	ug/L	40	11	40	
cis-1,3-Dichloropropene	ND	ug/L	40	8.3	29	
trans-1,3-Dichloropropene	ND	ug/L	40	6.7	23	
Ethylbenzene	ND	ug/L	40	8.9	31	
Hexachlorobutadiene	ND	ug/L	40	9.4	33	
Isopropylbenzene	ND	ug/L	40	9.7	34	
p-Isopropyltoluene	ND	ug/L	40	8.4	30	
Methylene chloride	ND	ug/L	40	10	36	
Naphthalene	ND	ug/L	40	14	48	
n-Propylbenzene	ND	ug/L	40	11	38	
ortho-Xylene	ND	ug/L	40	10	36	
Styrene	ND	ug/L	40	7.4	26	
1,1,1,2-Tetrachloroethane	ND	ug/L	40	8.6	31	
1,1,2,2-Tetrachloroethane	ND	ug/L	40	11	40	
Tetrachloroethene	220	ug/L	40	8.5	30	
Toluene	ND	ug/L	40	7.1	25	
1,2,3-Trichlorobenzene	ND	ug/L	40	7.6	27	
1,2,4-Trichlorobenzene	ND	ug/L	40	7.0	24	
1,1,1-Trichloroethane	ND	ug/L	40	11	37	
1,1,2-Trichloroethane	ND	ug/L	40	9.5	34	
Trichloroethene	180	ug/L	40	12	43	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898981 DUP #1 Collected: 12/21/15 Analyzed: 12/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	40	11	40	
1,2,3-Trichloropropane	ND	ug/L	40	9.4	33	
1,2,4-Trimethylbenzene	ND	ug/L	40	8.2	29	
1,3,5-Trimethylbenzene	ND	ug/L	40	10	37	
Vinyl chloride	160	ug/L	40	6.2	22	
meta,para-Xylene	ND	ug/L	40	17	59	
MTBE	ND	ug/L	40	11	40	
Isopropyl Ether	ND	ug/L	40	9.5	34	
Dibromofluoromethane (SURR)	96%					S
Toluene-d8 (SURR)	99%					S
1-Bromo-4-Fluorobenzene (SURR)	100%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 21 of 32

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898982 MW-9 Collected: 12/21/15 Analyzed: 12/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	250	74	250	
Bromobenzene	ND	ug/L	250	92	330	
Bromochloromethane	ND	ug/L	250	60	210	
Bromodichloromethane	ND	ug/L	250	44	160	
Bromoform	ND	ug/L	250	63	220	
Bromomethane	ND	ug/L	250	31	110	
n-Butylbenzene	ND	ug/L	250	49	170	
sec-Butylbenzene	ND	ug/L	250	56	200	
tert-Butylbenzene	ND	ug/L	250	71	250	
Carbon Tetrachloride	ND	ug/L	250	58	210	
Chlorobenzene	ND	ug/L	250	49	170	
Chloroethane	ND	ug/L	250	310	1100	
Chloroform	ND	ug/L	250	64	230	
Chloromethane	ND	ug/L	250	54	190	
2-Chlorotoluene	ND	ug/L	250	68	240	
4-Chlorotoluene	ND	ug/L	250	70	250	
Dibromochloromethane	ND	ug/L	250	63	220	
1,2-Dibromo-3-Chloropropane	ND	ug/L	250	61	220	
1,2-Dibromoethane	ND	ug/L	250	44	150	
Dibromomethane	ND	ug/L	250	57	200	
1,2-Dichlorobenzene	ND	ug/L	250	45	160	
1,3-Dichlorobenzene	ND	ug/L	250	57	200	
1,4-Dichlorobenzene	ND	ug/L	250	82	290	
Dichlorodifluoromethane	ND	ug/L	250	69	240	
1,1-Dichloroethane	ND	ug/L	250	61	220	
1,2-Dichloroethane	ND	ug/L	250	82	290	
1,1-Dichloroethene	ND	ug/L	250	63	220	
cis-1,2-Dichloroethene	2100	ug/L	250	75	260	
trans-1,2-Dichloroethene	ND	ug/L	250	63	220	
1,2-Dichloropropane	ND	ug/L	250	54	190	
1,3-Dichloropropane	ND	ug/L	250	72	250	
2,2-Dichloropropane	ND	ug/L	250	67	240	
1,1-Dichloropropene	ND	ug/L	250	71	250	
cis-1,3-Dichloropropene	ND	ug/L	250	52	180	
trans-1,3-Dichloropropene	ND	ug/L	250	42	150	
Ethylbenzene	ND	ug/L	250	56	200	
Hexachlorobutadiene	ND	ug/L	250	59	210	
Isopropylbenzene	ND	ug/L	250	61	210	
p-Isopropyltoluene	ND	ug/L	250	53	190	
Methylene chloride	ND	ug/L	250	63	220	
Naphthalene	ND	ug/L	250	85	300	
n-Propylbenzene	ND	ug/L	250	67	240	
ortho-Xylene	ND	ug/L	250	64	230	
Styrene	ND	ug/L	250	47	160	
1,1,1,2-Tetrachloroethane	ND	ug/L	250	54	190	
1,1,2,2-Tetrachloroethane	ND	ug/L	250	71	250	
Tetrachloroethene	ND	ug/L	250	53	190	
Toluene	ND	ug/L	250	44	160	
1,2,3-Trichlorobenzene	ND	ug/L	250	47	170	
1,2,4-Trichlorobenzene	ND	ug/L	250	44	150	
1,1,1-Trichloroethane	ND	ug/L	250	66	230	
1,1,2-Trichloroethane	ND	ug/L	250	60	210	
Trichloroethene	ND	ug/L	250	76	270	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898982 MW-9 Collected: 12/21/15 Analyzed: 12/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	250	71	250	
1,2,3-Trichloropropane	ND	ug/L	250	59	210	
1,2,4-Trimethylbenzene	ND	ug/L	250	52	180	
1,3,5-Trimethylbenzene	ND	ug/L	250	65	230	
Vinyl chloride	[75]	ug/L	250	39	140	
meta,para-Xylene	ND	ug/L	250	100	370	
MTBE	ND	ug/L	250	71	250	
Isopropyl Ether	ND	ug/L	250	59	210	
Dibromofluoromethane (SURR)	97%					S
Toluene-d8 (SURR)	93%					S
1-Bromo-4-Fluorobenzene (SURR)	106%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898983 MW-9A Collected: 12/21/15 Analyzed: 12/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	25	7.4	25	
Bromobenzene	ND	ug/L	25	9.2	33	
Bromochloromethane	ND	ug/L	25	6.0	21	
Bromodichloromethane	ND	ug/L	25	4.4	16	
Bromoform	ND	ug/L	25	6.3	22	
Bromomethane	ND	ug/L	25	3.1	11	
n-Butylbenzene	ND	ug/L	25	4.9	17	
sec-Butylbenzene	ND	ug/L	25	5.6	20	
tert-Butylbenzene	ND	ug/L	25	7.1	25	
Carbon Tetrachloride	ND	ug/L	25	5.8	21	
Chlorobenzene	ND	ug/L	25	4.9	17	
Chloroethane	ND	ug/L	25	31	110	
Chloroform	ND	ug/L	25	6.4	23	
Chloromethane	ND	ug/L	25	5.4	19	
2-Chlorotoluene	ND	ug/L	25	6.8	24	
4-Chlorotoluene	ND	ug/L	25	7.0	25	
Dibromochloromethane	ND	ug/L	25	6.3	22	
1,2-Dibromo-3-Chloropropane	ND	ug/L	25	6.1	22	
1,2-Dibromoethane	ND	ug/L	25	4.4	15	
Dibromomethane	ND	ug/L	25	5.7	20	
1,2-Dichlorobenzene	ND	ug/L	25	4.5	16	
1,3-Dichlorobenzene	ND	ug/L	25	5.7	20	
1,4-Dichlorobenzene	ND	ug/L	25	8.2	29	
Dichlorodifluoromethane	ND	ug/L	25	6.9	24	
1,1-Dichloroethane	ND	ug/L	25	6.1	22	
1,2-Dichloroethane	ND	ug/L	25	8.2	29	
1,1-Dichloroethene	ND	ug/L	25	6.3	22	
cis-1,2-Dichloroethene	480	ug/L	25	7.5	26	
trans-1,2-Dichloroethene	ND	ug/L	25	6.3	22	
1,2-Dichloropropane	ND	ug/L	25	5.4	19	
1,3-Dichloropropane	ND	ug/L	25	7.2	25	
2,2-Dichloropropane	ND	ug/L	25	6.7	24	
1,1-Dichloropropene	ND	ug/L	25	7.1	25	
cis-1,3-Dichloropropene	ND	ug/L	25	5.2	18	
trans-1,3-Dichloropropene	ND	ug/L	25	4.2	15	
Ethylbenzene	ND	ug/L	25	5.6	20	
Hexachlorobutadiene	ND	ug/L	25	5.9	21	
Isopropylbenzene	ND	ug/L	25	6.1	21	
p-Isopropyltoluene	ND	ug/L	25	5.3	19	
Methylene chloride	ND	ug/L	25	6.3	22	
Naphthalene	ND	ug/L	25	8.5	30	
n-Propylbenzene	ND	ug/L	25	6.7	24	
ortho-Xylene	ND	ug/L	25	6.4	23	
Styrene	ND	ug/L	25	4.7	16	
1,1,1,2-Tetrachloroethane	ND	ug/L	25	5.4	19	
1,1,2,2-Tetrachloroethane	ND	ug/L	25	7.1	25	
Tetrachloroethene	ND	ug/L	25	5.3	19	
Toluene	ND	ug/L	25	4.4	16	
1,2,3-Trichlorobenzene	ND	ug/L	25	4.7	17	
1,2,4-Trichlorobenzene	ND	ug/L	25	4.4	15	
1,1,1-Trichloroethane	ND	ug/L	25	6.6	23	
1,1,2-Trichloroethane	ND	ug/L	25	6.0	21	
Trichloroethene	ND	ug/L	25	7.6	27	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898983 MW-9A Collected: 12/21/15 Analyzed: 12/29/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	25	7.1	25	
1,2,3-Trichloropropane	ND	ug/L	25	5.9	21	
1,2,4-Trimethylbenzene	ND	ug/L	25	5.2	18	
1,3,5-Trimethylbenzene	ND	ug/L	25	6.5	23	
Vinyl chloride	[7.7]	ug/L	25	3.9	14	
meta,para-Xylene	ND	ug/L	25	10	37	
MTBE	ND	ug/L	25	7.1	25	
Isopropyl Ether	ND	ug/L	25	5.9	21	
Dibromofluoromethane (SURR)	92%					S
Toluene-d8 (SURR)	91%					S
1-Bromo-4-Fluorobenzene (SURR)	93%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 25 of 32

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898984 Storm Sewer North of SP-01 Collected: 12/21/15 Analyzed: 12/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	12.5	3.7	13	
Bromobenzene	ND	ug/L	12.5	4.6	16	
Bromochloromethane	ND	ug/L	12.5	3.0	11	
Bromodichloromethane	ND	ug/L	12.5	2.2	7.8	
Bromoform	ND	ug/L	12.5	3.1	11	
Bromomethane	ND	ug/L	12.5	1.6	5.4	
n-Butylbenzene	ND	ug/L	12.5	2.4	8.6	
sec-Butylbenzene	ND	ug/L	12.5	2.8	9.9	
tert-Butylbenzene	ND	ug/L	12.5	3.6	13	
Carbon Tetrachloride	ND	ug/L	12.5	2.9	10	
Chlorobenzene	ND	ug/L	12.5	2.4	8.6	
Chloroethane	ND	ug/L	12.5	15	54	
Chloroform	ND	ug/L	12.5	3.2	11	
Chloromethane	ND	ug/L	12.5	2.7	9.5	
2-Chlorotoluene	ND	ug/L	12.5	3.4	12	
4-Chlorotoluene	ND	ug/L	12.5	3.5	12	
Dibromochloromethane	ND	ug/L	12.5	3.1	11	
1,2-Dibromo-3-Chloropropane	ND	ug/L	12.5	3.1	11	
1,2-Dibromoethane	ND	ug/L	12.5	2.2	7.6	
Dibromomethane	ND	ug/L	12.5	2.9	10	
1,2-Dichlorobenzene	ND	ug/L	12.5	2.2	7.9	
1,3-Dichlorobenzene	ND	ug/L	12.5	2.9	10	
1,4-Dichlorobenzene	ND	ug/L	12.5	4.1	15	
Dichlorodifluoromethane	ND	ug/L	12.5	3.4	12	
1,1-Dichloroethane	ND	ug/L	12.5	3.1	11	
1,2-Dichloroethane	ND	ug/L	12.5	4.1	14	
1,1-Dichloroethene	ND	ug/L	12.5	3.2	11	
cis-1,2-Dichloroethene	87	ug/L	12.5	3.7	13	
trans-1,2-Dichloroethene	ND	ug/L	12.5	3.1	11	
1,2-Dichloropropane	ND	ug/L	12.5	2.7	9.5	
1,3-Dichloropropane	ND	ug/L	12.5	3.6	13	
2,2-Dichloropropane	ND	ug/L	12.5	3.3	12	
1,1-Dichloropropene	ND	ug/L	12.5	3.6	13	
cis-1,3-Dichloropropene	ND	ug/L	12.5	2.6	9.2	
trans-1,3-Dichloropropene	ND	ug/L	12.5	2.1	7.3	
Ethylbenzene	ND	ug/L	12.5	2.8	9.8	
Hexachlorobutadiene	ND	ug/L	12.5	2.9	10	
Isopropylbenzene	ND	ug/L	12.5	3.0	11	
p-Isopropyltoluene	ND	ug/L	12.5	2.6	9.4	
Methylene chloride	ND	ug/L	12.5	3.2	11	
Naphthalene	ND	ug/L	12.5	4.2	15	
n-Propylbenzene	ND	ug/L	12.5	3.3	12	
ortho-Xylene	ND	ug/L	12.5	3.2	11	
Styrene	ND	ug/L	12.5	2.3	8.0	
1,1,1,2-Tetrachloroethane	ND	ug/L	12.5	2.7	9.6	
1,1,2,2-Tetrachloroethane	ND	ug/L	12.5	3.6	13	
Tetrachloroethene	190	ug/L	12.5	2.7	9.4	
Toluene	ND	ug/L	12.5	2.2	7.9	
1,2,3-Trichlorobenzene	ND	ug/L	12.5	2.4	8.4	
1,2,4-Trichlorobenzene	ND	ug/L	12.5	2.2	7.6	
1,1,1-Trichloroethane	ND	ug/L	12.5	3.3	12	
1,1,2-Trichloroethane	ND	ug/L	12.5	3.0	11	
Trichloroethene	48	ug/L	12.5	3.8	14	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898984 Storm Sewer North of SP-01 Collected: 12/21/15 Analyzed: 12/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	12.5	3.6	13	
1,2,3-Trichloropropane	ND	ug/L	12.5	3.0	10	
1,2,4-Trimethylbenzene	ND	ug/L	12.5	2.6	9.1	
1,3,5-Trimethylbenzene	ND	ug/L	12.5	3.3	12	
Vinyl chloride	15	ug/L	12.5	2.0	6.9	
meta,para-Xylene	ND	ug/L	12.5	5.2	18	
MTBE	ND	ug/L	12.5	3.6	13	
Isopropyl Ether	ND	ug/L	12.5	3.0	11	
Dibromofluoromethane (SURR)	96%					S
Toluene-d8 (SURR)	94%					S
1-Bromo-4-Fluorobenzene (SURR)	107%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 27 of 32

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898985 Outfall at SP-01 Collected: 12/21/15 Analyzed: 12/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	10	2.9	10	
Bromobenzene	ND	ug/L	10	3.7	13	
Bromochloromethane	ND	ug/L	10	2.4	8.5	
Bromodichloromethane	ND	ug/L	10	1.8	6.2	
Bromoform	ND	ug/L	10	2.5	8.9	
Bromomethane	ND	ug/L	10	1.2	4.3	
n-Butylbenzene	ND	ug/L	10	2.0	6.9	
sec-Butylbenzene	ND	ug/L	10	2.2	7.9	
tert-Butylbenzene	ND	ug/L	10	2.8	10	
Carbon Tetrachloride	ND	ug/L	10	2.3	8.2	
Chlorobenzene	ND	ug/L	10	1.9	6.9	
Chloroethane	ND	ug/L	10	12	44	
Chloroform	ND	ug/L	10	2.5	9.0	
Chloromethane	ND	ug/L	10	2.1	7.6	
2-Chlorotoluene	ND	ug/L	10	2.7	9.7	
4-Chlorotoluene	ND	ug/L	10	2.8	9.9	
Dibromochloromethane	ND	ug/L	10	2.5	8.9	
1,2-Dibromo-3-Chloropropane	ND	ug/L	10	2.4	8.6	
1,2-Dibromoethane	ND	ug/L	10	1.8	6.1	
Dibromomethane	ND	ug/L	10	2.3	8.1	
1,2-Dichlorobenzene	ND	ug/L	10	1.8	6.3	
1,3-Dichlorobenzene	ND	ug/L	10	2.3	8.1	
1,4-Dichlorobenzene	ND	ug/L	10	3.3	12	
Dichlorodifluoromethane	ND	ug/L	10	2.8	9.8	
1,1-Dichloroethane	ND	ug/L	10	2.5	8.7	
1,2-Dichloroethane	ND	ug/L	10	3.3	12	
1,1-Dichloroethene	ND	ug/L	10	2.5	8.9	
cis-1,2-Dichloroethene	59	ug/L	10	3.0	11	
trans-1,2-Dichloroethene	ND	ug/L	10	2.5	8.9	
1,2-Dichloropropane	ND	ug/L	10	2.1	7.6	
1,3-Dichloropropane	ND	ug/L	10	2.9	10	
2,2-Dichloropropane	ND	ug/L	10	2.7	9.5	
1,1-Dichloropropene	ND	ug/L	10	2.9	10	
cis-1,3-Dichloropropene	ND	ug/L	10	2.1	7.4	
trans-1,3-Dichloropropene	ND	ug/L	10	1.7	5.8	
Ethylbenzene	ND	ug/L	10	2.2	7.9	
Hexachlorobutadiene	ND	ug/L	10	2.3	8.3	
Isopropylbenzene	ND	ug/L	10	2.4	8.6	
p-Isopropyltoluene	ND	ug/L	10	2.1	7.5	
Methylene chloride	ND	ug/L	10	2.5	9.0	
Naphthalene	ND	ug/L	10	3.4	12	
n-Propylbenzene	ND	ug/L	10	2.7	9.5	
ortho-Xylene	ND	ug/L	10	2.6	9.1	
Styrene	ND	ug/L	10	1.9	6.4	
1,1,1,2-Tetrachloroethane	ND	ug/L	10	2.2	7.7	
1,1,2,2-Tetrachloroethane	ND	ug/L	10	2.8	10	
Tetrachloroethene	140	ug/L	10	2.1	7.6	
Toluene	ND	ug/L	10	1.8	6.3	
1,2,3-Trichlorobenzene	ND	ug/L	10	1.9	6.7	
1,2,4-Trichlorobenzene	ND	ug/L	10	1.8	6.0	
1,1,1-Trichloroethane	ND	ug/L	10	2.6	9.3	
1,1,2-Trichloroethane	ND	ug/L	10	2.4	8.4	
Trichloroethene	31	ug/L	10	3.1	11	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898985 Outfall at SP-01 Collected: 12/21/15 Analyzed: 12/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	10	2.9	10	
1,2,3-Trichloropropane	ND	ug/L	10	2.4	8.4	
1,2,4-Trimethylbenzene	ND	ug/L	10	2.1	7.3	
1,3,5-Trimethylbenzene	ND	ug/L	10	2.6	9.2	
Vinyl chloride	11	ug/L	10	1.6	5.5	
meta,para-Xylene	ND	ug/L	10	4.2	15	
MTBE	ND	ug/L	10	2.8	10	
Isopropyl Ether	ND	ug/L	10	2.4	8.4	
Dibromofluoromethane (SURR)	99%					S
Toluene-d8 (SURR)	94%					S
1-Bromo-4-Fluorobenzene (SURR)	109%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 29 of 32

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898986 Drainage South of SP-01 Collected: 12/21/15 Analyzed: 12/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	10	2.9	10	
Bromobenzene	ND	ug/L	10	3.7	13	
Bromochloromethane	ND	ug/L	10	2.4	8.5	
Bromodichloromethane	ND	ug/L	10	1.8	6.2	
Bromoform	ND	ug/L	10	2.5	8.9	
Bromomethane	ND	ug/L	10	1.2	4.3	
n-Butylbenzene	ND	ug/L	10	2.0	6.9	
sec-Butylbenzene	ND	ug/L	10	2.2	7.9	
tert-Butylbenzene	ND	ug/L	10	2.8	10	
Carbon Tetrachloride	ND	ug/L	10	2.3	8.2	
Chlorobenzene	ND	ug/L	10	1.9	6.9	
Chloroethane	ND	ug/L	10	12	44	
Chloroform	ND	ug/L	10	2.5	9.0	
Chloromethane	ND	ug/L	10	2.1	7.6	
2-Chlorotoluene	ND	ug/L	10	2.7	9.7	
4-Chlorotoluene	ND	ug/L	10	2.8	9.9	
Dibromochloromethane	ND	ug/L	10	2.5	8.9	
1,2-Dibromo-3-Chloropropane	ND	ug/L	10	2.4	8.6	
1,2-Dibromoethane	ND	ug/L	10	1.8	6.1	
Dibromomethane	ND	ug/L	10	2.3	8.1	
1,2-Dichlorobenzene	ND	ug/L	10	1.8	6.3	
1,3-Dichlorobenzene	ND	ug/L	10	2.3	8.1	
1,4-Dichlorobenzene	ND	ug/L	10	3.3	12	
Dichlorodifluoromethane	ND	ug/L	10	2.8	9.8	
1,1-Dichloroethane	ND	ug/L	10	2.5	8.7	
1,2-Dichloroethane	ND	ug/L	10	3.3	12	
1,1-Dichloroethene	ND	ug/L	10	2.5	8.9	
cis-1,2-Dichloroethene	49	ug/L	10	3.0	11	
trans-1,2-Dichloroethene	ND	ug/L	10	2.5	8.9	
1,2-Dichloropropane	ND	ug/L	10	2.1	7.6	
1,3-Dichloropropane	ND	ug/L	10	2.9	10	
2,2-Dichloropropane	ND	ug/L	10	2.7	9.5	
1,1-Dichloropropene	ND	ug/L	10	2.9	10	
cis-1,3-Dichloropropene	ND	ug/L	10	2.1	7.4	
trans-1,3-Dichloropropene	ND	ug/L	10	1.7	5.8	
Ethylbenzene	ND	ug/L	10	2.2	7.9	
Hexachlorobutadiene	ND	ug/L	10	2.3	8.3	
Isopropylbenzene	ND	ug/L	10	2.4	8.6	
p-Isopropyltoluene	ND	ug/L	10	2.1	7.5	
Methylene chloride	ND	ug/L	10	2.5	9.0	
Naphthalene	ND	ug/L	10	3.4	12	
n-Propylbenzene	ND	ug/L	10	2.7	9.5	
ortho-Xylene	ND	ug/L	10	2.6	9.1	
Styrene	ND	ug/L	10	1.9	6.4	
1,1,1,2-Tetrachloroethane	ND	ug/L	10	2.2	7.7	
1,1,2,2-Tetrachloroethane	ND	ug/L	10	2.8	10	
Tetrachloroethene	120	ug/L	10	2.1	7.6	
Toluene	ND	ug/L	10	1.8	6.3	
1,2,3-Trichlorobenzene	ND	ug/L	10	1.9	6.7	
1,2,4-Trichlorobenzene	ND	ug/L	10	1.8	6.0	
1,1,1-Trichloroethane	ND	ug/L	10	2.6	9.3	
1,1,2-Trichloroethane	ND	ug/L	10	2.4	8.4	
Trichloroethene	30	ug/L	10	3.1	11	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898986 Drainage South of SP-01 Collected: 12/21/15 Analyzed: 12/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	10	2.9	10	
1,2,3-Trichloropropane	ND	ug/L	10	2.4	8.4	
1,2,4-Trimethylbenzene	ND	ug/L	10	2.1	7.3	
1,3,5-Trimethylbenzene	ND	ug/L	10	2.6	9.2	
Vinyl chloride	8.7	ug/L	10	1.6	5.5	
meta,para-Xylene	ND	ug/L	10	4.2	15	
MTBE	ND	ug/L	10	2.8	10	
Isopropyl Ether	ND	ug/L	10	2.4	8.4	
Dibromofluoromethane (SURR)	94%					S
Toluene-d8 (SURR)	92%					S
1-Bromo-4-Fluorobenzene (SURR)	106%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 31 of 32

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898987 Trip Blank Collected: 12/21/15 Analyzed: 12/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.29	1.0	
Bromobenzene	ND	ug/L	1	0.37	1.3	
Bromochloromethane	ND	ug/L	1	0.24	0.85	
Bromodichloromethane	ND	ug/L	1	0.18	0.62	
Bromoform	ND	ug/L	1	0.25	0.89	
Bromomethane	ND	ug/L	1	0.12	0.43	
n-Butylbenzene	ND	ug/L	1	0.20	0.69	
sec-Butylbenzene	ND	ug/L	1	0.22	0.79	
tert-Butylbenzene	ND	ug/L	1	0.28	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.23	0.82	
Chlorobenzene	ND	ug/L	1	0.19	0.69	
Chloroethane	ND	ug/L	1	1.2	4.4	
Chloroform	ND	ug/L	1	0.25	0.90	
Chloromethane	ND	ug/L	1	0.21	0.76	
2-Chlorotoluene	ND	ug/L	1	0.27	0.97	
4-Chlorotoluene	ND	ug/L	1	0.28	0.99	
Dibromochloromethane	ND	ug/L	1	0.25	0.89	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.24	0.86	
1,2-Dibromoethane	ND	ug/L	1	0.18	0.61	
Dibromomethane	ND	ug/L	1	0.23	0.81	
1,2-Dichlorobenzene	ND	ug/L	1	0.18	0.63	
1,3-Dichlorobenzene	ND	ug/L	1	0.23	0.81	
1,4-Dichlorobenzene	ND	ug/L	1	0.33	1.2	
Dichlorodifluoromethane	ND	ug/L	1	0.28	0.98	
1,1-Dichloroethane	ND	ug/L	1	0.25	0.87	
1,2-Dichloroethane	ND	ug/L	1	0.33	1.2	
1,1-Dichloroethene	ND	ug/L	1	0.25	0.89	
cis-1,2-Dichloroethene	ND	ug/L	1	0.30	1.1	
trans-1,2-Dichloroethene	ND	ug/L	1	0.25	0.89	
1,2-Dichloropropane	ND	ug/L	1	0.21	0.76	
1,3-Dichloropropane	ND	ug/L	1	0.29	1.0	
2,2-Dichloropropane	ND	ug/L	1	0.27	0.95	
1,1-Dichloropropene	ND	ug/L	1	0.29	1.0	
cis-1,3-Dichloropropene	ND	ug/L	1	0.21	0.74	
trans-1,3-Dichloropropene	ND	ug/L	1	0.17	0.58	
Ethylbenzene	ND	ug/L	1	0.22	0.79	
Hexachlorobutadiene	ND	ug/L	1	0.23	0.83	
Isopropylbenzene	ND	ug/L	1	0.24	0.86	
p-Isopropyltoluene	ND	ug/L	1	0.21	0.75	
Methylene chloride	ND	ug/L	1	0.25	0.90	
Naphthalene	ND	ug/L	1	0.34	1.2	
n-Propylbenzene	ND	ug/L	1	0.27	0.95	
ortho-Xylene	ND	ug/L	1	0.26	0.91	
Styrene	ND	ug/L	1	0.19	0.64	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.22	0.77	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.28	1.0	
Tetrachloroethene	ND	ug/L	1	0.21	0.76	
Toluene	ND	ug/L	1	0.18	0.63	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.19	0.67	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.60	
1,1,1-Trichloroethane	ND	ug/L	1	0.26	0.93	
1,1,2-Trichloroethane	ND	ug/L	1	0.24	0.84	
Trichloroethene	ND	ug/L	1	0.31	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 253000 PO # 42-1-27320-003

Project Description: DB Oak

Project Title: Template: SATW Printed: 01/04/2016 17:02

Sample: 898987 Trip Blank Collected: 12/21/15 Analyzed: 12/30/15 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.29	1.0	
1,2,3-Trichloropropane	ND	ug/L	1	0.24	0.84	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.73	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.26	0.92	
Vinyl chloride	ND	ug/L	1	0.16	0.55	
meta,para-Xylene	ND	ug/L	1	0.42	1.5	
MTBE	ND	ug/L	1	0.28	1.0	
Isopropyl Ether	ND	ug/L	1	0.24	0.84	
Dibromofluoromethane (SURR)	89%					S
Toluene-d8 (SURR)	95%					S
1-Bromo-4-Fluorobenzene (SURR)	99%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

CLIENT **SHANNON & WILSON, INC.**
 ADDRESS **2110 LUANN LANE, SUITE 101**
 CITY **MADISON** STATE **WI** ZIP **53713**
 PROJECT DESCRIPTION / NO. **DBORR** QUOTATION NO.
 DNR FID # _____ DNR LICENSE # _____
 CONTACT **MARK MCCOLLOCH** PHONE **608/442-5223**
 PURCHASE ORDER NO. **42-1-37320-003** FAX **608/442-9013**

Wisconsin Lab Cert. No. 721026460
 WI DATCP 105-000330

Analytical Laboratory and Environmental Services
 400 North Lake Avenue • Crandon, WI 54520-1298
 Tel: (715) 478-2777 • Fax: (715) 478-3060

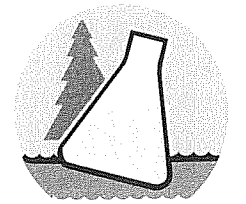
MATRIX:
 SW = surface water
 WW = waste water
 GW = ground water
 DW = drinking water
 TIS = tissue
 AIR = air
 SOIL = soil
 SED = sediment
 PROD = product
 SL = sludge
 OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
 Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS

PARAMETER

NO. 164242



ITEM NO.	NLS LAB NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS	PARAMETER										COLLECTION REMARKS (i.e. DNR Well ID #)			
			DATE	TIME																
1.	982	MW-9	12-21-15	835	GW	Z														
2.	983	MW-9A	12-21-15	830	GW	Z														
3.	984	STEM SEWER NORTH OF SP-01	12-21-15	1350	GW	Z														
4.	985	OUTFALL AT SP-01	12-21-15	1355	SW	Z														
5.	986	DRAINAGE SOUTH OF	12-21-15	1400	SW	Z														
6.	987	SP-01 TRIP BLANK	-	-	-	1														
7.																				
8.																				
9.																				
10.																				

COLLECTED BY (signature) *Mark McCulloch* CUSTODY SEAL NO. (IF ANY) _____ DATE/TIME _____
 RELINQUISHED BY (signature) *Mark McCulloch* RECEIVED BY (signature) *Dunham Express* DATE/TIME **12-21-15 1515**
 DISPATCHED BY (signature) _____ METHOD OF TRANSPORT _____ DATE/TIME _____

REPORT TO
MARK MCCOLLOCH
SHANNON & WILSON, INC.

RECEIVED AT NLS BY (signature) *John Braun* DATE/TIME **12/22/15 9** CONDITION *Good* TEMP. _____
 COOLER # _____ REMARKS & OTHER INFORMATION _____
 PRESERVATIVE: N = nitric acid OH = sodium hydroxide WDNR FACILITY NUMBER _____ E-MAIL ADDRESS _____
 NP = no preservative Z = zinc acetate HA = hydrochloric & ascorbic acid _____
 S = sulfuric acid M = methanol H = hydrochloric acid _____

INVOICE TO
SAME

- IMPORTANT:**
1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
 2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
 3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
 4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298

Tel: (715) 478-2777 • Fax: (715) 478-3060

CLIENT SHANNON WILSON, INC.	
ADDRESS 2110 LUANN LANE, SUITE 101	
CITY MADISON,	STATE WI
ZIP 53713	
PROJECT DESCRIPTION / NO. DB OAK	QUOTATION NO.
DNR FID #	DNR LICENSE #
CONTACT MARK MCCOLLEY	PHONE 608/442-5223
PURCHASE ORDER NO. 42-1-37320-003	FAX 608/442-9013

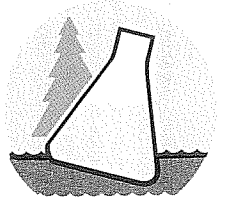
Wisconsin DNR cert ID
721026460 (Cran) / 268533760 (Wauk)
Wisconsin DATCP ID
105-000330 (Cran) / 105-000479 (Wauk)

- MATRIX:
 SW = surface water
 WW = waste water
 GW = groundwater
 DW = drinking water
 TIS = tissue
 AIR = air
 SOIL = soil
 SED = sediment
 PROD = product
 SL = sludge
 OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
 Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS

1	2	3	4	5	6	7	8	9	10
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
G	G	G	G	G	G	G	G	G	G



NO. 187220

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS	COLLECTION REMARKS (i.e. DNR Well ID #)													
			DATE	TIME																
1.	898972	TW-02	12-21-15	1250	GW	2														
2.	973	TW-03		1010		2														
3.	974	MW-2		0940		2														
4.	975	MW-2A		0935		2														
5.	976	MW-3		1230		2														
6.	977	MW-3A		1225		2														
7.	978	MW-3B		1300		2														
8.	979	MW-4		1035		2														
9.	980	MW-7A		0900		2														
10.	981	DUP#1		1255		2														

COLLECTED BY (signature) <i>Mark McColley</i>	CUSTODY SEAL NO. (IF ANY)	DATE/TIME
RELINQUISHED BY (signature) <i>Mark McColley</i>	RECEIVED BY (signature) <i>Dunham Express</i>	DATE/TIME 12-21-15 1515
DISPATCHED BY (signature)	METHOD OF TRANSPORT	DATE/TIME
RECEIVED AT NLS BY (signature) <i>John Braun</i>	DATE/TIME 12/22/15 900	CONDITION <i>Good</i>
TEMP.	REMARKS & OTHER INFORMATION	
COOLER #	WDNR FACILITY NUMBER	E-MAIL ADDRESS

REPORT TO
MARK MCCOLLEY
SHANNON WILSON, INC.

INVOICE TO
SAME

IMPORTANT:

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP YELLOW COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. WI00034

Printed: 10/28/15 Code: NNNN-S Page 1 of 1

Client: Shannon & Wilson, Inc.
Attn: Mark McColloch, P.G.
2110 Luann Lane
Suite 101
Madison, WI 53713

NLS Project: 249226

NLS Customer: 104721

Fax: 608 442 9013 Phone: 608 442 5223

PO # 42-1-37320-003

Project: DB OAK

SED - 1 NLS ID: 887833

COC: 176319:1 Matrix: SO

Collected: 10/07/15 10:00 Received: 10/08/15

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	61.2	%	1	0.10*		10/08/15	SM 2540-G 20ed	721026460
VOCs (soil) by EPA Method 8260C	see attached					10/27/15	SW846 8260C	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

LOD = Limit of Detection LOQ = Limit of Quantitation ND = Not Detected (< LOD) 1000 ug/L = 1 mg/L
DWB = Dry Weight Basis NA = Not Applicable %DWB = (mg/kg DWB) / 10000
MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
R. T. Krueger
President

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Page 1 of 2

Customer: Shannon & Wilson, Inc. NLS Project: 249226 PO # 42-1-37320-003

Project Description: DB OAK

Project Title: Template: SATS Printed: 10/28/2015 15:10

Sample: 887833 SED - 1 Collected: 10/07/15 Analyzed: 10/26/15 - 61.2%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Benzene	ND	ug/kg	1	30	110	
Bromobenzene	ND	ug/kg	1	32	110	
Bromochloromethane	ND	ug/kg	1	28	100	
Bromodichloromethane	ND	ug/kg	1	31	110	
Bromoform	ND	ug/kg	1	28	98	
Bromomethane	ND	ug/kg	1	9.6	34	
n-Butylbenzene	ND	ug/kg	1	20	69	
sec-Butylbenzene	ND	ug/kg	1	26	91	
tert-Butylbenzene	ND	ug/kg	1	24	85	
Carbon Tetrachloride	ND	ug/kg	1	34	120	
Chlorobenzene	[61]	ug/kg	1	41	150	
Chloroethane	ND	ug/kg	1	190	660	
Chloroform	ND	ug/kg	1	26	92	
Chloromethane	ND	ug/kg	1	12	41	
2-Chlorotoluene	ND	ug/kg	1	29	100	
4-Chlorotoluene	ND	ug/kg	1	28	98	
Dibromochloromethane	ND	ug/kg	1	23	82	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	33	120	
1,2-Dibromoethane	ND	ug/kg	1	23	80	
Dibromomethane	ND	ug/kg	1	24	83	
1,2-Dichlorobenzene	[53]	ug/kg	1	27	96	
1,3-Dichlorobenzene	ND	ug/kg	1	28	100	
1,4-Dichlorobenzene	ND	ug/kg	1	28	98	
Dichlorodifluoromethane	ND	ug/kg	1	26	91	
1,1-Dichloroethane	ND	ug/kg	1	28	98	
1,2-Dichloroethane	ND	ug/kg	1	30	100	
1,1-Dichloroethene	[60]	ug/kg	1	27	97	
cis-1,2-Dichloroethene	18000	ug/kg	40	1000	3600	
trans-1,2-Dichloroethene	290	ug/kg	1	26	93	
1,2-Dichloropropane	ND	ug/kg	1	22	77	
1,3-Dichloropropane	ND	ug/kg	1	28	100	
2,2-Dichloropropane	ND	ug/kg	1	27	94	
1,1-Dichloropropene	ND	ug/kg	1	29	100	
cis-1,3-Dichloropropene	ND	ug/kg	1	25	89	
trans-1,3-Dichloropropene	ND	ug/kg	1	29	100	
Ethylbenzene	180	ug/kg	1	26	91	
Hexachlorobutadiene	ND	ug/kg	1	39	140	
Isopropylbenzene	ND	ug/kg	1	31	110	
p-Isopropyltoluene	[73]	ug/kg	1	24	86	
Methylene chloride	[64]	ug/kg	1	24	86	
Naphthalene	[99]	ug/kg	1	44	150	
n-Propylbenzene	[88]	ug/kg	1	30	110	
ortho-Xylene	180	ug/kg	1	25	88	
Styrene	ND	ug/kg	1	24	86	
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	26	92	
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	31	110	
Tetrachloroethene	96000	ug/kg	40	1100	4000	
Toluene	210	ug/kg	1	27	96	
1,2,3-Trichlorobenzene	ND	ug/kg	1	43	150	
1,2,4-Trichlorobenzene	ND	ug/kg	1	36	130	
1,1,1-Trichloroethane	ND	ug/kg	1	34	120	
1,1,2-Trichloroethane	ND	ug/kg	1	28	100	
Trichloroethene	14000	ug/kg	40	1300	4300	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 249226 PO # 42-1-37320-003

Project Description: DB OAK

Project Title: Template: SATS Printed: 10/28/2015 15:10

Sample: 887833 SED - 1 Collected: 10/07/15 Analyzed: 10/26/15 - 61.2%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Trichlorofluoromethane	450	ug/kg	1	27	94	
1,2,3-Trichloropropane	ND	ug/kg	1	35	120	
1,2,4-Trimethylbenzene	210	ug/kg	1	23	82	
1,3,5-Trimethylbenzene	[75]	ug/kg	1	23	83	
Vinyl chloride	1200	ug/kg	1	11	39	
meta,para-Xylene	490	ug/kg	1	48	170	
MTBE	ND	ug/kg	1	23	82	
Isopropyl Ether	ND	ug/kg	1	28	97	
Dibromofluoromethane (SURR)	104%					S
Toluene-d8 (SURR)	90%					S
1-Bromo-4-Fluorobenzene (SURR)	112%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTH LAKE SERVICE, INC.

CLIENT: **SHANNON & WILSON, INC.**
 ADDRESS: **2110 LUANN LANE, SUITE 101**
 CITY: **MADISON** STATE: **WI** ZIP: **53713**
 PROJECT DESCRIPTION / NO.: **DB OAK** QUOTATION NO.:
 DNR FID # _____ DNR LICENSE # _____
 CONTACT: **MARK M'GLOUGH** PHONE: **608/442-5223**
 PURCHASE ORDER NO.: **42-1-37320-003** FAX: **608/442-5013**

Wisconsin Lab Cert. No. 721026460
 WI DATCP 105-000330

Analytical Laboratory and Environmental Services
 400 North Lake Avenue • Crandon, WI 54520-1298
 Tel: (715) 478-2777 • Fax: (715) 478-3060

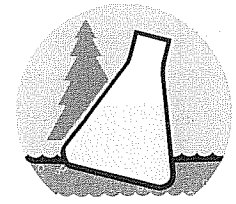
MATRIX:
 SW = surface water
 WW = waste water
 GW = groundwater
 DW = drinking water
 TIS = tissue
 AIR = air
 SOIL = soil
 SED = sediment
 PROD = product
 SL = sludge
 OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
 Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS

4oz glass 120ml plastic

PARAMETER



NO. 176319

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS										COLLECTION REMARKS (i.e. DNR Well ID #)			
			DATE	TIME		1	2	3	4	5	6	7	8	9	10				
1.	887833	SED-1	10-07-15	1000	SED	(VOCs
2.																			
3.																			
4.																			
5.																			
6.																			
7.																			
8.																			
9.																			
10.																			

ONE SAMPLE PER LINE

COLLECTED BY (signature) *Mark M'GloUGH* CUSTODY SEAL NO. (IF ANY) _____ DATE/TIME **10-07-15 4:00 PM**

RELINQUISHED BY (signature) _____ RECEIVED BY (signature) _____ DATE/TIME _____

DISPATCHED BY (signature) _____ METHOD OF TRANSPORT _____ DATE/TIME _____

REPORT TO **MARK M'GLOUGH**
2110 LUANN LANE, SUITE 101
MADISON, WI 53713

RECEIVED AT NLS BY (signature) *Justin Braun* DATE/TIME **10/8/15 1015** CONDITION **same** TEMP. _____

INVOICE TO **SAME**

COOLER # _____ REMARKS & OTHER INFORMATION _____

PRESERVATIVE: N = nitric acid OH = sodium hydroxide
 NP = no preservative Z = zinc acetate HA = hydrochloric & ascorbic acid
 S = sulfuric acid M = methanol H = hydrochloric acid

WDNR FACILITY NUMBER _____ E-MAIL ADDRESS _____

IMPORTANT:

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, NOT PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

Appendix F

Laboratory Reports March 2016 Groundwater and Sediment Samples

ANALYTICAL REPORT

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 257215

NLS Customer: 104721

Fax: 608 442 9013 **Phone:** 608 442 5223

Project: DB Oak / 42-37320

MW-7 NLS ID: 911307

COC: 201998:1 Matrix: GW
 Collected: 03/21/16 12:35 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	1.7	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	11	mg/L	10	2.5	5.0	03/28/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/24/16	SW846 8260C	721026460

MW-7A NLS ID: 911308

COC: 201998:2 Matrix: GW
 Collected: 03/21/16 12:45 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	1.3	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	41	mg/L	10	2.5	5.0	03/28/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/24/16	SW846 8260C	721026460

MW-7B NLS ID: 911309

COC: 201998:3 Matrix: GW
 Collected: 03/21/16 12:20 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	0.84	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	65	mg/L	10	2.5	5.0	03/28/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/24/16	SW846 8260C	721026460

MW-9 NLS ID: 911310

COC: 201998:4 Matrix: GW
 Collected: 03/21/16 10:35 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	0.42	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	59	mg/L	20	5.0	10	03/28/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/24/16	SW846 8260C	721026460

MW-9A NLS ID: 911311

COC: 201998:5 Matrix: GW
 Collected: 03/21/16 10:30 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	ND	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	61	mg/L	10	2.5	5.0	03/28/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/24/16	SW846 8260C	721026460

TW-01 NLS ID: 911312

COC: 201998:6 Matrix: GW
 Collected: 03/22/16 10:35 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	0.21	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	60	mg/L	1	2.5	5.0	03/23/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/24/16	SW846 8260C	721026460

ANALYTICAL REPORT

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 257215

NLS Customer: 104721

Fax: 608 442 9013 **Phone:** 608 442 5223

Project: DB Oak / 42-37320

TW-02 NLS ID: 911313

COC: 201998:7 Matrix: GW
 Collected: 03/22/16 10:15 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	ND	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	14	mg/L	1	2.5	5.0	03/23/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/24/16	SW846 8260C	721026460

TW-03 NLS ID: 911314

COC: 201998:8 Matrix: GW
 Collected: 03/22/16 11:30 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	[0.061]	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	33	mg/L	1	2.5	5.0	03/23/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/25/16	SW846 8260C	721026460

DUP #1 NLS ID: 911315

COC: 201998:9 Matrix: GW
 Collected: 03/22/16 10:20 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					03/24/16	SW846 8260C	721026460

Trip Blank NLS ID: 911316

COC: 201998:10 Matrix: TB
 Collected: 03/22/16 00:00 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					03/24/16	NA	721026460

1W-01 NLS ID: 911317

COC: 201997:1 Matrix: GW
 Collected: 03/21/16 11:04 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	[0.027]	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	ND	mg/L	10	2.5	5.0	03/28/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/24/16	SW846 8260C	721026460

MW-2 NLS ID: 911318

COC: 201997:2 Matrix: GW
 Collected: 03/21/16 14:30 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	0.18	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	54	mg/L	1	2.5	5.0	03/23/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/24/16	SW846 8260C	721026460

MW-2A NLS ID: 911319

COC: 201997:3 Matrix: GW
 Collected: 03/21/16 14:45 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	ND	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	110	mg/L	20	5.0	10	03/28/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/24/16	SW846 8260C	721026460

ANALYTICAL REPORT

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 257215

NLS Customer: 104721

Fax: 608 442 9013 **Phone:** 608 442 5223

Project: DB Oak / 42-37320

MW-2B NLS ID: 911320

COC: 201997:4 Matrix: GW

Collected: 03/21/16 14:15 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	0.94	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	68	mg/L	1	2.5	5.0	03/23/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/24/16	SW846 8260C	721026460

MW-3 NLS ID: 911321

COC: 201997:5 Matrix: GW

Collected: 03/22/16 09:30 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	[0.051]	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	21	mg/L	1	2.5	5.0	03/23/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/24/16	SW846 8260C	721026460

MW-3A NLS ID: 911322

COC: 201997:6 Matrix: GW

Collected: 03/22/16 10:30 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	[0.048]	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	36	mg/L	1	2.5	5.0	03/23/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/24/16	SW846 8260C	721026460

MW-3B NLS ID: 911323

COC: 201997:7 Matrix: GW

Collected: 03/22/16 09:35 Received: 03/23/16

Notes: Sample received for nitrate did not meet pH preservation requirement of <2 s.u. An additional aliquot of acid was added to sample upon receipt at laboratory and sample then met pH requirement.

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	[0.030]	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	56	mg/L	1	2.5	5.0	03/23/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/24/16	SW846 8260C	721026460

MW-3C NLS ID: 911324

COC: 201997:8 Matrix: GW

Collected: 03/22/16 12:10 Received: 03/23/16

Notes: Sample received for nitrate did not meet pH preservation requirement of <2 s.u. An additional aliquot of acid was added to sample upon receipt at laboratory and sample then met pH requirement.

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	[0.056]	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	ND	mg/L	1	2.5	5.0	03/23/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/25/16	SW846 8260C	721026460

MW-4 NLS ID: 911325

COC: 201997:9 Matrix: GW

Collected: 03/21/16 15:40 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	0.15	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	46	mg/L	1	2.5	5.0	03/23/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/25/16	SW846 8260C	721026460

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. WI00034

Printed: 03/31/16 Page 4 of 4

Client: Shannon & Wilson, Inc.
Attn: Mark McColloch, P.G.
2110 Luann Lane
Suite 101
Madison, WI 53713

NLS Project: 257215

NLS Customer: 104721

Fax: 608 442 9013 Phone: 608 442 5223

Project: DB Oak / 42-37320

MW-4A NLS ID: 911326

COC: 201997:10 Matrix: GW

Collected: 03/21/16 15:30 Received: 03/23/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Nitrate as N, uncorr. for NO2 (unfilt)	[0.035]	mg/L	1	0.019	0.062	03/23/16	4500-NO3 F-2000	721026460
Sulfate, as SO4 (unfiltered)	[3.2]	mg/L	1	2.5	5.0	03/23/16	SW846 9056	721026460
VOCs (water) by GC/MS	see attached					03/25/16	SW846 8260C	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable

DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L

MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
R. T. Krueger
President

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 1 of 22

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911307 MW-7 Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.24	0.84	
Bromobenzene	ND	ug/L	1	0.23	0.82	
Bromochloromethane	ND	ug/L	1	0.25	0.88	
Bromodichloromethane	ND	ug/L	1	0.27	0.94	
Bromoform	ND	ug/L	1	0.21	0.73	
Bromomethane	ND	ug/L	1	0.27	0.96	
n-Butylbenzene	ND	ug/L	1	0.21	0.73	
sec-Butylbenzene	ND	ug/L	1	0.19	0.66	
tert-Butylbenzene	ND	ug/L	1	0.19	0.68	
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroethane	ND	ug/L	1	0.93	3.3	
Chloroform	ND	ug/L	1	0.22	0.78	
Chloromethane	ND	ug/L	1	0.22	0.78	
2-Chlorotoluene	ND	ug/L	1	0.25	0.90	
4-Chlorotoluene	ND	ug/L	1	0.21	0.73	
Dibromochloromethane	ND	ug/L	1	0.16	0.56	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.18	0.63	
1,2-Dibromoethane	ND	ug/L	1	0.23	0.81	
Dibromomethane	ND	ug/L	1	0.22	0.78	
1,2-Dichlorobenzene	ND	ug/L	1	0.21	0.73	
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
Dichlorodifluoromethane	ND	ug/L	1	0.17	0.58	
1,1-Dichloroethane	ND	ug/L	1	0.19	0.67	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
cis-1,2-Dichloroethene	ND	ug/L	1	0.24	0.84	
trans-1,2-Dichloroethene	ND	ug/L	1	0.17	0.60	
1,2-Dichloropropane	ND	ug/L	1	0.28	0.98	
1,3-Dichloropropane	ND	ug/L	1	0.24	0.84	
2,2-Dichloropropane	ND	ug/L	1	0.18	0.64	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.70	
cis-1,3-Dichloropropene	ND	ug/L	1	0.26	0.91	
trans-1,3-Dichloropropene	ND	ug/L	1	0.19	0.69	
Ethylbenzene	ND	ug/L	1	0.19	0.69	
Hexachlorobutadiene	ND	ug/L	1	0.30	1.1	
Isopropylbenzene	ND	ug/L	1	0.19	0.65	
p-Isopropyltoluene	ND	ug/L	1	0.18	0.62	
Methylene chloride	ND	ug/L	1	0.24	0.84	
Naphthalene	ND	ug/L	1	0.43	1.5	
n-Propylbenzene	ND	ug/L	1	0.21	0.74	
ortho-Xylene	ND	ug/L	1	0.19	0.66	
Styrene	ND	ug/L	1	0.19	0.66	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.20	0.70	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.26	0.94	
Tetrachloroethene	ND	ug/L	1	0.22	0.78	
Toluene	ND	ug/L	1	0.21	0.74	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.37	1.3	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.30	1.0	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.69	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.32	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911307 MW-7 Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.20	0.71	
1,2,3-Trichloropropane	ND	ug/L	1	0.25	0.87	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.74	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.76	
Vinyl chloride	ND	ug/L	1	0.17	0.60	
meta,para-Xylene	ND	ug/L	1	0.37	1.3	
MTBE	ND	ug/L	1	0.21	0.73	
Isopropyl Ether	ND	ug/L	1	0.22	0.78	
Dibromofluoromethane (SURR)	114%					S
Toluene-d8 (SURR)	115%					S
1-Bromo-4-Fluorobenzene (SURR)	101%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 3 of 22

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911308 MW-7A Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	12.5	3.0	11	
Bromobenzene	ND	ug/L	12.5	2.9	10	
Bromochloromethane	ND	ug/L	12.5	3.1	11	
Bromodichloromethane	ND	ug/L	12.5	3.3	12	
Bromoform	ND	ug/L	12.5	2.6	9.1	
Bromomethane	ND	ug/L	12.5	3.4	12	
n-Butylbenzene	ND	ug/L	12.5	2.6	9.1	
sec-Butylbenzene	ND	ug/L	12.5	2.3	8.2	
tert-Butylbenzene	ND	ug/L	12.5	2.4	8.5	
Carbon Tetrachloride	ND	ug/L	12.5	1.9	6.9	
Chlorobenzene	ND	ug/L	12.5	3.1	11	
Chloroethane	ND	ug/L	12.5	12	41	
Chloroform	ND	ug/L	12.5	2.8	9.8	
Chloromethane	ND	ug/L	12.5	2.8	9.7	
2-Chlorotoluene	ND	ug/L	12.5	3.2	11	
4-Chlorotoluene	ND	ug/L	12.5	2.6	9.1	
Dibromochloromethane	ND	ug/L	12.5	2.0	7.0	
1,2-Dibromo-3-Chloropropane	ND	ug/L	12.5	2.2	7.8	
1,2-Dibromoethane	ND	ug/L	12.5	2.9	10	
Dibromomethane	ND	ug/L	12.5	2.8	9.8	
1,2-Dichlorobenzene	ND	ug/L	12.5	2.6	9.1	
1,3-Dichlorobenzene	ND	ug/L	12.5	2.5	8.7	
1,4-Dichlorobenzene	ND	ug/L	12.5	3.4	12	
Dichlorodifluoromethane	ND	ug/L	12.5	2.1	7.3	
1,1-Dichloroethane	ND	ug/L	12.5	2.4	8.3	
1,2-Dichloroethane	ND	ug/L	12.5	2.7	9.7	
1,1-Dichloroethene	ND	ug/L	12.5	2.4	8.6	
cis-1,2-Dichloroethene	180	ug/L	12.5	3.0	10	
trans-1,2-Dichloroethene	ND	ug/L	12.5	2.1	7.5	
1,2-Dichloropropane	ND	ug/L	12.5	3.5	12	
1,3-Dichloropropane	ND	ug/L	12.5	3.0	11	
2,2-Dichloropropane	ND	ug/L	12.5	2.3	8.0	
1,1-Dichloropropene	ND	ug/L	12.5	2.5	8.7	
cis-1,3-Dichloropropene	ND	ug/L	12.5	3.2	11	
trans-1,3-Dichloropropene	ND	ug/L	12.5	2.4	8.6	
Ethylbenzene	ND	ug/L	12.5	2.4	8.6	
Hexachlorobutadiene	ND	ug/L	12.5	3.8	13	
Isopropylbenzene	ND	ug/L	12.5	2.3	8.2	
p-Isopropyltoluene	ND	ug/L	12.5	2.2	7.8	
Methylene chloride	ND	ug/L	12.5	3.0	10	
Naphthalene	ND	ug/L	12.5	5.4	19	
n-Propylbenzene	ND	ug/L	12.5	2.6	9.3	
ortho-Xylene	ND	ug/L	12.5	2.3	8.2	
Styrene	ND	ug/L	12.5	2.3	8.2	
1,1,1,2-Tetrachloroethane	ND	ug/L	12.5	2.5	8.8	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	12.5	3.3	12	
Tetrachloroethene	100	ug/L	12.5	2.8	9.8	
Toluene	ND	ug/L	12.5	2.6	9.2	
1,2,3-Trichlorobenzene	ND	ug/L	12.5	4.7	17	
1,2,4-Trichlorobenzene	ND	ug/L	12.5	3.7	13	
1,1,1-Trichloroethane	ND	ug/L	12.5	2.4	8.7	
1,1,2-Trichloroethane	ND	ug/L	12.5	2.4	8.6	
Trichloroethene	55	ug/L	12.5	4.0	14	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911308 MW-7A Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	12.5	2.5	8.8	
1,2,3-Trichloropropane	ND	ug/L	12.5	3.1	11	
1,2,4-Trimethylbenzene	ND	ug/L	12.5	2.6	9.2	
1,3,5-Trimethylbenzene	ND	ug/L	12.5	2.7	9.5	
Vinyl chloride	ND	ug/L	12.5	2.1	7.5	
meta,para-Xylene	ND	ug/L	12.5	4.6	16	
MTBE	ND	ug/L	12.5	2.6	9.1	
Isopropyl Ether	ND	ug/L	12.5	2.8	9.8	
Dibromofluoromethane (SURR)	115%					S
Toluene-d8 (SURR)	116%					S
1-Bromo-4-Fluorobenzene (SURR)	101%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 5 of 22

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911309 MW-7B Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.24	0.84	
Bromobenzene	ND	ug/L	1	0.23	0.82	
Bromochloromethane	ND	ug/L	1	0.25	0.88	
Bromodichloromethane	ND	ug/L	1	0.27	0.94	
Bromoform	ND	ug/L	1	0.21	0.73	
Bromomethane	ND	ug/L	1	0.27	0.96	
n-Butylbenzene	ND	ug/L	1	0.21	0.73	
sec-Butylbenzene	ND	ug/L	1	0.19	0.66	
tert-Butylbenzene	ND	ug/L	1	0.19	0.68	
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroethane	ND	ug/L	1	0.93	3.3	
Chloroform	ND	ug/L	1	0.22	0.78	
Chloromethane	ND	ug/L	1	0.22	0.78	
2-Chlorotoluene	ND	ug/L	1	0.25	0.90	
4-Chlorotoluene	ND	ug/L	1	0.21	0.73	
Dibromochloromethane	ND	ug/L	1	0.16	0.56	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.18	0.63	
1,2-Dibromoethane	ND	ug/L	1	0.23	0.81	
Dibromomethane	ND	ug/L	1	0.22	0.78	
1,2-Dichlorobenzene	ND	ug/L	1	0.21	0.73	
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
Dichlorodifluoromethane	ND	ug/L	1	0.17	0.58	
1,1-Dichloroethane	ND	ug/L	1	0.19	0.67	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
cis-1,2-Dichloroethene	8.4	ug/L	1	0.24	0.84	
trans-1,2-Dichloroethene	[0.25]	ug/L	1	0.17	0.60	
1,2-Dichloropropane	ND	ug/L	1	0.28	0.98	
1,3-Dichloropropane	ND	ug/L	1	0.24	0.84	
2,2-Dichloropropane	ND	ug/L	1	0.18	0.64	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.70	
cis-1,3-Dichloropropene	ND	ug/L	1	0.26	0.91	
trans-1,3-Dichloropropene	ND	ug/L	1	0.19	0.69	
Ethylbenzene	ND	ug/L	1	0.19	0.69	
Hexachlorobutadiene	ND	ug/L	1	0.30	1.1	
Isopropylbenzene	ND	ug/L	1	0.19	0.65	
p-Isopropyltoluene	ND	ug/L	1	0.18	0.62	
Methylene chloride	ND	ug/L	1	0.24	0.84	
Naphthalene	ND	ug/L	1	0.43	1.5	
n-Propylbenzene	ND	ug/L	1	0.21	0.74	
ortho-Xylene	ND	ug/L	1	0.19	0.66	
Styrene	ND	ug/L	1	0.19	0.66	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.20	0.70	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.26	0.94	
Tetrachloroethene	8.5	ug/L	1	0.22	0.78	
Toluene	ND	ug/L	1	0.21	0.74	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.37	1.3	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.30	1.0	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.69	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	5.1	ug/L	1	0.32	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911309 MW-7B Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.20	0.71	
1,2,3-Trichloropropane	ND	ug/L	1	0.25	0.87	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.74	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.76	
Vinyl chloride	[0.52]	ug/L	1	0.17	0.60	
meta,para-Xylene	ND	ug/L	1	0.37	1.3	
MTBE	ND	ug/L	1	0.21	0.73	
Isopropyl Ether	ND	ug/L	1	0.22	0.78	
Dibromofluoromethane (SURR)	108%					S
Toluene-d8 (SURR)	108%					S
1-Bromo-4-Fluorobenzene (SURR)	98%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 7 of 22

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911310 MW-9 Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	200	48	170	
Bromobenzene	ND	ug/L	200	46	160	
Bromochloromethane	ND	ug/L	200	50	180	
Bromodichloromethane	ND	ug/L	200	53	190	
Bromoform	ND	ug/L	200	41	150	
Bromomethane	ND	ug/L	200	54	190	
n-Butylbenzene	ND	ug/L	200	41	150	
sec-Butylbenzene	ND	ug/L	200	37	130	
tert-Butylbenzene	ND	ug/L	200	38	140	
Carbon Tetrachloride	ND	ug/L	200	31	110	
Chlorobenzene	ND	ug/L	200	49	170	
Chloroethane	ND	ug/L	200	190	660	
Chloroform	ND	ug/L	200	44	160	
Chloromethane	ND	ug/L	200	44	160	
2-Chlorotoluene	ND	ug/L	200	51	180	
4-Chlorotoluene	ND	ug/L	200	41	150	
Dibromochloromethane	ND	ug/L	200	32	110	
1,2-Dibromo-3-Chloropropane	ND	ug/L	200	35	130	
1,2-Dibromoethane	ND	ug/L	200	46	160	
Dibromomethane	ND	ug/L	200	44	160	
1,2-Dichlorobenzene	ND	ug/L	200	41	150	
1,3-Dichlorobenzene	ND	ug/L	200	39	140	
1,4-Dichlorobenzene	ND	ug/L	200	54	190	
Dichlorodifluoromethane	ND	ug/L	200	33	120	
1,1-Dichloroethane	ND	ug/L	200	38	130	
1,2-Dichloroethane	ND	ug/L	200	44	160	
1,1-Dichloroethene	ND	ug/L	200	39	140	
cis-1,2-Dichloroethene	1700	ug/L	200	47	170	
trans-1,2-Dichloroethene	ND	ug/L	200	34	120	
1,2-Dichloropropane	ND	ug/L	200	55	200	
1,3-Dichloropropane	ND	ug/L	200	47	170	
2,2-Dichloropropane	ND	ug/L	200	36	130	
1,1-Dichloropropene	ND	ug/L	200	39	140	
cis-1,3-Dichloropropene	ND	ug/L	200	51	180	
trans-1,3-Dichloropropene	ND	ug/L	200	39	140	
Ethylbenzene	ND	ug/L	200	39	140	
Hexachlorobutadiene	ND	ug/L	200	60	210	
Isopropylbenzene	ND	ug/L	200	37	130	
p-Isopropyltoluene	ND	ug/L	200	35	120	
Methylene chloride	ND	ug/L	200	47	170	
Naphthalene	ND	ug/L	200	86	300	
n-Propylbenzene	ND	ug/L	200	42	150	
ortho-Xylene	ND	ug/L	200	37	130	
Styrene	ND	ug/L	200	37	130	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	40	140	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	53	190	
Tetrachloroethene	ND	ug/L	200	44	160	
Toluene	ND	ug/L	200	42	150	
1,2,3-Trichlorobenzene	ND	ug/L	200	75	260	
1,2,4-Trichlorobenzene	ND	ug/L	200	59	210	
1,1,1-Trichloroethane	ND	ug/L	200	39	140	
1,1,2-Trichloroethane	ND	ug/L	200	39	140	
Trichloroethene	ND	ug/L	200	65	230	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911310 MW-9 Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	200	40	140	
1,2,3-Trichloropropane	ND	ug/L	200	49	170	
1,2,4-Trimethylbenzene	ND	ug/L	200	42	150	
1,3,5-Trimethylbenzene	ND	ug/L	200	43	150	
Vinyl chloride	[73]	ug/L	200	34	120	
meta,para-Xylene	ND	ug/L	200	74	260	
MTBE	ND	ug/L	200	41	150	
Isopropyl Ether	ND	ug/L	200	44	160	
Dibromofluoromethane (SURR)	105%					S
Toluene-d8 (SURR)	111%					S
1-Bromo-4-Fluorobenzene (SURR)	94%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 9 of 22

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911311 MW-9A Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	40	9.5	34	
Bromobenzene	ND	ug/L	40	9.3	33	
Bromochloromethane	ND	ug/L	40	9.9	35	
Bromodichloromethane	ND	ug/L	40	11	38	
Bromoform	ND	ug/L	40	8.2	29	
Bromomethane	ND	ug/L	40	11	38	
n-Butylbenzene	ND	ug/L	40	8.2	29	
sec-Butylbenzene	ND	ug/L	40	7.4	26	
tert-Butylbenzene	ND	ug/L	40	7.6	27	
Carbon Tetrachloride	ND	ug/L	40	6.2	22	
Chlorobenzene	ND	ug/L	40	9.8	35	
Chloroethane	ND	ug/L	40	37	130	
Chloroform	ND	ug/L	40	8.8	31	
Chloromethane	ND	ug/L	40	8.8	31	
2-Chlorotoluene	ND	ug/L	40	10	36	
4-Chlorotoluene	ND	ug/L	40	8.2	29	
Dibromochloromethane	ND	ug/L	40	6.3	22	
1,2-Dibromo-3-Chloropropane	ND	ug/L	40	7.1	25	
1,2-Dibromoethane	ND	ug/L	40	9.2	33	
Dibromomethane	ND	ug/L	40	8.8	31	
1,2-Dichlorobenzene	ND	ug/L	40	8.2	29	
1,3-Dichlorobenzene	ND	ug/L	40	7.9	28	
1,4-Dichlorobenzene	ND	ug/L	40	11	38	
Dichlorodifluoromethane	ND	ug/L	40	6.6	23	
1,1-Dichloroethane	ND	ug/L	40	7.5	27	
1,2-Dichloroethane	ND	ug/L	40	8.8	31	
1,1-Dichloroethene	ND	ug/L	40	7.8	28	
cis-1,2-Dichloroethene	320	ug/L	40	9.4	33	
trans-1,2-Dichloroethene	ND	ug/L	40	6.8	24	
1,2-Dichloropropane	ND	ug/L	40	11	39	
1,3-Dichloropropane	ND	ug/L	40	9.5	34	
2,2-Dichloropropane	ND	ug/L	40	7.3	26	
1,1-Dichloropropene	ND	ug/L	40	7.9	28	
cis-1,3-Dichloropropene	ND	ug/L	40	10	36	
trans-1,3-Dichloropropene	ND	ug/L	40	7.8	27	
Ethylbenzene	ND	ug/L	40	7.7	27	
Hexachlorobutadiene	ND	ug/L	40	12	43	
Isopropylbenzene	ND	ug/L	40	7.4	26	
p-Isopropyltoluene	ND	ug/L	40	7.0	25	
Methylene chloride	ND	ug/L	40	9.5	34	
Naphthalene	ND	ug/L	40	17	61	
n-Propylbenzene	ND	ug/L	40	8.4	30	
ortho-Xylene	ND	ug/L	40	7.4	26	
Styrene	ND	ug/L	40	7.4	26	
1,1,1,2-Tetrachloroethane	ND	ug/L	40	7.9	28	
1,1,2,2-Tetrachloroethane	ND	ug/L	40	11	37	
Tetrachloroethene	ND	ug/L	40	8.8	31	
Toluene	ND	ug/L	40	8.3	29	
1,2,3-Trichlorobenzene	ND	ug/L	40	15	53	
1,2,4-Trichlorobenzene	ND	ug/L	40	12	42	
1,1,1-Trichloroethane	ND	ug/L	40	7.8	28	
1,1,2-Trichloroethane	ND	ug/L	40	7.8	28	
Trichloroethene	ND	ug/L	40	13	46	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911311 MW-9A Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	40	8.0	28	
1,2,3-Trichloropropane	ND	ug/L	40	9.8	35	
1,2,4-Trimethylbenzene	ND	ug/L	40	8.3	29	
1,3,5-Trimethylbenzene	ND	ug/L	40	8.5	30	
Vinyl chloride	ND	ug/L	40	6.8	24	
meta,para-Xylene	ND	ug/L	40	15	53	
MTBE	ND	ug/L	40	8.2	29	
Isopropyl Ether	ND	ug/L	40	8.8	31	
Dibromofluoromethane (SURR)	101%					S
Toluene-d8 (SURR)	119%					S
1-Bromo-4-Fluorobenzene (SURR)	94%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911312 TW-01 Collected: 03/22/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.24	0.84	
Bromobenzene	ND	ug/L	1	0.23	0.82	
Bromochloromethane	ND	ug/L	1	0.25	0.88	
Bromodichloromethane	ND	ug/L	1	0.27	0.94	
Bromoform	ND	ug/L	1	0.21	0.73	
Bromomethane	ND	ug/L	1	0.27	0.96	
n-Butylbenzene	ND	ug/L	1	0.21	0.73	
sec-Butylbenzene	ND	ug/L	1	0.19	0.66	
tert-Butylbenzene	ND	ug/L	1	0.19	0.68	
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroethane	ND	ug/L	1	0.93	3.3	
Chloroform	ND	ug/L	1	0.22	0.78	
Chloromethane	ND	ug/L	1	0.22	0.78	
2-Chlorotoluene	ND	ug/L	1	0.25	0.90	
4-Chlorotoluene	ND	ug/L	1	0.21	0.73	
Dibromochloromethane	ND	ug/L	1	0.16	0.56	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.18	0.63	
1,2-Dibromoethane	ND	ug/L	1	0.23	0.81	
Dibromomethane	ND	ug/L	1	0.22	0.78	
1,2-Dichlorobenzene	ND	ug/L	1	0.21	0.73	
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
Dichlorodifluoromethane	ND	ug/L	1	0.17	0.58	
1,1-Dichloroethane	ND	ug/L	1	0.19	0.67	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
cis-1,2-Dichloroethene	1.4	ug/L	1	0.24	0.84	
trans-1,2-Dichloroethene	[0.19]	ug/L	1	0.17	0.60	
1,2-Dichloropropane	ND	ug/L	1	0.28	0.98	
1,3-Dichloropropane	ND	ug/L	1	0.24	0.84	
2,2-Dichloropropane	ND	ug/L	1	0.18	0.64	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.70	
cis-1,3-Dichloropropene	ND	ug/L	1	0.26	0.91	
trans-1,3-Dichloropropene	ND	ug/L	1	0.19	0.69	
Ethylbenzene	ND	ug/L	1	0.19	0.69	
Hexachlorobutadiene	ND	ug/L	1	0.30	1.1	
Isopropylbenzene	ND	ug/L	1	0.19	0.65	
p-Isopropyltoluene	ND	ug/L	1	0.18	0.62	
Methylene chloride	ND	ug/L	1	0.24	0.84	
Naphthalene	ND	ug/L	1	0.43	1.5	
n-Propylbenzene	ND	ug/L	1	0.21	0.74	
ortho-Xylene	ND	ug/L	1	0.19	0.66	
Styrene	ND	ug/L	1	0.19	0.66	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.20	0.70	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.26	0.94	
Tetrachloroethene	0.88	ug/L	1	0.22	0.78	
Toluene	ND	ug/L	1	0.21	0.74	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.37	1.3	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.30	1.0	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.69	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	2.0	ug/L	1	0.32	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911312 TW-01 Collected: 03/22/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.20	0.71	
1,2,3-Trichloropropane	ND	ug/L	1	0.25	0.87	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.74	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.76	
Vinyl chloride	0.69	ug/L	1	0.17	0.60	
meta,para-Xylene	ND	ug/L	1	0.37	1.3	
MTBE	ND	ug/L	1	0.21	0.73	
Isopropyl Ether	ND	ug/L	1	0.22	0.78	
Dibromofluoromethane (SURR)	110%					S
Toluene-d8 (SURR)	113%					S
1-Bromo-4-Fluorobenzene (SURR)	99%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911313 TW-02 Collected: 03/22/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	40	9.5	34	
Bromobenzene	ND	ug/L	40	9.3	33	
Bromochloromethane	ND	ug/L	40	9.9	35	
Bromodichloromethane	ND	ug/L	40	11	38	
Bromoform	ND	ug/L	40	8.2	29	
Bromomethane	ND	ug/L	40	11	38	
n-Butylbenzene	ND	ug/L	40	8.2	29	
sec-Butylbenzene	ND	ug/L	40	7.4	26	
tert-Butylbenzene	ND	ug/L	40	7.6	27	
Carbon Tetrachloride	ND	ug/L	40	6.2	22	
Chlorobenzene	ND	ug/L	40	9.8	35	
Chloroethane	ND	ug/L	40	37	130	
Chloroform	ND	ug/L	40	8.8	31	
Chloromethane	ND	ug/L	40	8.8	31	
2-Chlorotoluene	ND	ug/L	40	10	36	
4-Chlorotoluene	ND	ug/L	40	8.2	29	
Dibromochloromethane	ND	ug/L	40	6.3	22	
1,2-Dibromo-3-Chloropropane	ND	ug/L	40	7.1	25	
1,2-Dibromoethane	ND	ug/L	40	9.2	33	
Dibromomethane	ND	ug/L	40	8.8	31	
1,2-Dichlorobenzene	ND	ug/L	40	8.2	29	
1,3-Dichlorobenzene	ND	ug/L	40	7.9	28	
1,4-Dichlorobenzene	ND	ug/L	40	11	38	
Dichlorodifluoromethane	ND	ug/L	40	6.6	23	
1,1-Dichloroethane	ND	ug/L	40	7.5	27	
1,2-Dichloroethane	ND	ug/L	40	8.8	31	
1,1-Dichloroethene	ND	ug/L	40	7.8	28	
cis-1,2-Dichloroethene	540	ug/L	40	9.4	33	
trans-1,2-Dichloroethene	26	ug/L	40	6.8	24	
1,2-Dichloropropane	ND	ug/L	40	11	39	
1,3-Dichloropropane	ND	ug/L	40	9.5	34	
2,2-Dichloropropane	ND	ug/L	40	7.3	26	
1,1-Dichloropropene	ND	ug/L	40	7.9	28	
cis-1,3-Dichloropropene	ND	ug/L	40	10	36	
trans-1,3-Dichloropropene	ND	ug/L	40	7.8	27	
Ethylbenzene	ND	ug/L	40	7.7	27	
Hexachlorobutadiene	ND	ug/L	40	12	43	
Isopropylbenzene	ND	ug/L	40	7.4	26	
p-Isopropyltoluene	ND	ug/L	40	7.0	25	
Methylene chloride	ND	ug/L	40	9.5	34	
Naphthalene	ND	ug/L	40	17	61	
n-Propylbenzene	ND	ug/L	40	8.4	30	
ortho-Xylene	ND	ug/L	40	7.4	26	
Styrene	ND	ug/L	40	7.4	26	
1,1,1,2-Tetrachloroethane	ND	ug/L	40	7.9	28	
1,1,2,2-Tetrachloroethane	ND	ug/L	40	11	37	
Tetrachloroethene	220	ug/L	40	8.8	31	
Toluene	ND	ug/L	40	8.3	29	
1,2,3-Trichlorobenzene	ND	ug/L	40	15	53	
1,2,4-Trichlorobenzene	ND	ug/L	40	12	42	
1,1,1-Trichloroethane	ND	ug/L	40	7.8	28	
1,1,2-Trichloroethane	ND	ug/L	40	7.8	28	
Trichloroethene	170	ug/L	40	13	46	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911313 TW-02 Collected: 03/22/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	40	8.0	28	
1,2,3-Trichloropropane	ND	ug/L	40	9.8	35	
1,2,4-Trimethylbenzene	ND	ug/L	40	8.3	29	
1,3,5-Trimethylbenzene	ND	ug/L	40	8.5	30	
Vinyl chloride	190	ug/L	40	6.8	24	
meta,para-Xylene	ND	ug/L	40	15	53	
MTBE	ND	ug/L	40	8.2	29	
Isopropyl Ether	ND	ug/L	40	8.8	31	
Dibromofluoromethane (SURR)	122%					S
Toluene-d8 (SURR)	111%					S
1-Bromo-4-Fluorobenzene (SURR)	106%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911314 TW-03 Collected: 03/22/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	50	12	42	
Bromobenzene	ND	ug/L	50	12	41	
Bromochloromethane	ND	ug/L	50	12	44	
Bromodichloromethane	ND	ug/L	50	13	47	
Bromoform	ND	ug/L	50	10	36	
Bromomethane	ND	ug/L	50	13	48	
n-Butylbenzene	ND	ug/L	50	10	37	
sec-Butylbenzene	ND	ug/L	50	9.3	33	
tert-Butylbenzene	ND	ug/L	50	9.6	34	
Carbon Tetrachloride	ND	ug/L	50	7.8	27	
Chlorobenzene	ND	ug/L	50	12	43	
Chloroethane	ND	ug/L	50	46	160	
Chloroform	ND	ug/L	50	11	39	
Chloromethane	ND	ug/L	50	11	39	
2-Chlorotoluene	ND	ug/L	50	13	45	
4-Chlorotoluene	ND	ug/L	50	10	36	
Dibromochloromethane	ND	ug/L	50	7.9	28	
1,2-Dibromo-3-Chloropropane	ND	ug/L	50	8.9	31	
1,2-Dibromoethane	ND	ug/L	50	11	41	
Dibromomethane	ND	ug/L	50	11	39	
1,2-Dichlorobenzene	ND	ug/L	50	10	36	
1,3-Dichlorobenzene	ND	ug/L	50	9.9	35	
1,4-Dichlorobenzene	ND	ug/L	50	13	48	
Dichlorodifluoromethane	ND	ug/L	50	8.3	29	
1,1-Dichloroethane	ND	ug/L	50	9.4	33	
1,2-Dichloroethane	ND	ug/L	50	11	39	
1,1-Dichloroethene	ND	ug/L	50	9.8	35	
cis-1,2-Dichloroethene	1100	ug/L	100	24	84	
trans-1,2-Dichloroethene	[8.7]	ug/L	50	8.5	30	
1,2-Dichloropropane	ND	ug/L	50	14	49	
1,3-Dichloropropane	ND	ug/L	50	12	42	
2,2-Dichloropropane	ND	ug/L	50	9.1	32	
1,1-Dichloropropene	ND	ug/L	50	9.9	35	
cis-1,3-Dichloropropene	ND	ug/L	50	13	45	
trans-1,3-Dichloropropene	ND	ug/L	50	9.7	34	
Ethylbenzene	ND	ug/L	50	9.7	34	
Hexachlorobutadiene	ND	ug/L	50	15	53	
Isopropylbenzene	ND	ug/L	50	9.3	33	
p-Isopropyltoluene	ND	ug/L	50	8.8	31	
Methylene chloride	ND	ug/L	50	12	42	
Naphthalene	ND	ug/L	50	22	76	
n-Propylbenzene	ND	ug/L	50	11	37	
ortho-Xylene	ND	ug/L	50	9.3	33	
Styrene	ND	ug/L	50	9.3	33	
1,1,1,2-Tetrachloroethane	ND	ug/L	50	9.9	35	
1,1,2,2-Tetrachloroethane	ND	ug/L	50	13	47	
Tetrachloroethene	[37]	ug/L	50	11	39	
Toluene	ND	ug/L	50	10	37	
1,2,3-Trichlorobenzene	ND	ug/L	50	19	66	
1,2,4-Trichlorobenzene	ND	ug/L	50	15	52	
1,1,1-Trichloroethane	ND	ug/L	50	9.8	35	
1,1,2-Trichloroethane	ND	ug/L	50	9.8	35	
Trichloroethene	[26]	ug/L	50	16	57	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911314 TW-03 Collected: 03/22/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	50	10	35	
1,2,3-Trichloropropane	ND	ug/L	50	12	44	
1,2,4-Trimethylbenzene	ND	ug/L	50	10	37	
1,3,5-Trimethylbenzene	ND	ug/L	50	11	38	
Vinyl chloride	1200	ug/L	100	17	60	
meta,para-Xylene	ND	ug/L	50	19	66	
MTBE	ND	ug/L	50	10	36	
Isopropyl Ether	ND	ug/L	50	11	39	
Dibromofluoromethane (SURR)	111%					S
Toluene-d8 (SURR)	116%					S
1-Bromo-4-Fluorobenzene (SURR)	99%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911324 MW-3C Collected: 03/22/16 Analyzed: 03/25/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.24	0.84	
Bromobenzene	ND	ug/L	1	0.23	0.82	
Bromochloromethane	ND	ug/L	1	0.25	0.88	
Bromodichloromethane	ND	ug/L	1	0.27	0.94	
Bromoform	ND	ug/L	1	0.21	0.73	
Bromomethane	ND	ug/L	1	0.27	0.96	
n-Butylbenzene	ND	ug/L	1	0.21	0.73	
sec-Butylbenzene	ND	ug/L	1	0.19	0.66	
tert-Butylbenzene	ND	ug/L	1	0.19	0.68	
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroethane	ND	ug/L	1	0.93	3.3	
Chloroform	ND	ug/L	1	0.22	0.78	
Chloromethane	ND	ug/L	1	0.22	0.78	
2-Chlorotoluene	ND	ug/L	1	0.25	0.90	
4-Chlorotoluene	ND	ug/L	1	0.21	0.73	
Dibromochloromethane	ND	ug/L	1	0.16	0.56	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.18	0.63	
1,2-Dibromoethane	ND	ug/L	1	0.23	0.81	
Dibromomethane	ND	ug/L	1	0.22	0.78	
1,2-Dichlorobenzene	ND	ug/L	1	0.21	0.73	
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
Dichlorodifluoromethane	ND	ug/L	1	0.17	0.58	
1,1-Dichloroethane	ND	ug/L	1	0.19	0.67	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
cis-1,2-Dichloroethene	1.4	ug/L	1	0.24	0.84	
trans-1,2-Dichloroethene	ND	ug/L	1	0.17	0.60	
1,2-Dichloropropane	ND	ug/L	1	0.28	0.98	
1,3-Dichloropropane	ND	ug/L	1	0.24	0.84	
2,2-Dichloropropane	ND	ug/L	1	0.18	0.64	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.70	
cis-1,3-Dichloropropene	ND	ug/L	1	0.26	0.91	
trans-1,3-Dichloropropene	ND	ug/L	1	0.19	0.69	
Ethylbenzene	ND	ug/L	1	0.19	0.69	
Hexachlorobutadiene	ND	ug/L	1	0.30	1.1	
Isopropylbenzene	ND	ug/L	1	0.19	0.65	
p-Isopropyltoluene	ND	ug/L	1	0.18	0.62	
Methylene chloride	ND	ug/L	1	0.24	0.84	
Naphthalene	ND	ug/L	1	0.43	1.5	
n-Propylbenzene	ND	ug/L	1	0.21	0.74	
ortho-Xylene	ND	ug/L	1	0.19	0.66	
Styrene	ND	ug/L	1	0.19	0.66	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.20	0.70	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.26	0.94	
Tetrachloroethene	ND	ug/L	1	0.22	0.78	
Toluene	[0.52]	ug/L	1	0.21	0.74	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.37	1.3	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.30	1.0	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.69	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.32	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911324 MW-3C Collected: 03/22/16 Analyzed: 03/25/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.20	0.71	
1,2,3-Trichloropropane	ND	ug/L	1	0.25	0.87	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.74	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.76	
Vinyl chloride	[0.20]	ug/L	1	0.17	0.60	
meta,para-Xylene	ND	ug/L	1	0.37	1.3	
MTBE	ND	ug/L	1	0.21	0.73	
Isopropyl Ether	ND	ug/L	1	0.22	0.78	
Dibromofluoromethane (SURR)	121%					S
Toluene-d8 (SURR)	114%					S
1-Bromo-4-Fluorobenzene (SURR)	101%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 19 of 22

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911325 MW-4 Collected: 03/21/16 Analyzed: 03/25/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	500	120	420	
Bromobenzene	ND	ug/L	500	120	410	
Bromochloromethane	ND	ug/L	500	120	440	
Bromodichloromethane	ND	ug/L	500	130	470	
Bromoform	ND	ug/L	500	100	360	
Bromomethane	ND	ug/L	500	130	480	
n-Butylbenzene	ND	ug/L	500	100	370	
sec-Butylbenzene	ND	ug/L	500	93	330	
tert-Butylbenzene	ND	ug/L	500	96	340	
Carbon Tetrachloride	ND	ug/L	500	78	270	
Chlorobenzene	ND	ug/L	500	120	430	
Chloroethane	ND	ug/L	500	460	1600	
Chloroform	ND	ug/L	500	110	390	
Chloromethane	ND	ug/L	500	110	390	
2-Chlorotoluene	ND	ug/L	500	130	450	
4-Chlorotoluene	ND	ug/L	500	100	360	
Dibromochloromethane	ND	ug/L	500	79	280	
1,2-Dibromo-3-Chloropropane	ND	ug/L	500	89	310	
1,2-Dibromoethane	ND	ug/L	500	110	410	
Dibromomethane	ND	ug/L	500	110	390	
1,2-Dichlorobenzene	ND	ug/L	500	100	360	
1,3-Dichlorobenzene	ND	ug/L	500	99	350	
1,4-Dichlorobenzene	ND	ug/L	500	130	480	
Dichlorodifluoromethane	ND	ug/L	500	83	290	
1,1-Dichloroethane	ND	ug/L	500	94	330	
1,2-Dichloroethane	ND	ug/L	500	110	390	
1,1-Dichloroethene	ND	ug/L	500	98	350	
cis-1,2-Dichloroethene	3700	ug/L	500	120	420	
trans-1,2-Dichloroethene	ND	ug/L	500	85	300	
1,2-Dichloropropane	ND	ug/L	500	140	490	
1,3-Dichloropropane	ND	ug/L	500	120	420	
2,2-Dichloropropane	ND	ug/L	500	91	320	
1,1-Dichloropropene	ND	ug/L	500	99	350	
cis-1,3-Dichloropropene	ND	ug/L	500	130	450	
trans-1,3-Dichloropropene	ND	ug/L	500	97	340	
Ethylbenzene	ND	ug/L	500	97	340	
Hexachlorobutadiene	ND	ug/L	500	150	530	
Isopropylbenzene	ND	ug/L	500	93	330	
p-Isopropyltoluene	ND	ug/L	500	88	310	
Methylene chloride	ND	ug/L	500	120	420	
Naphthalene	ND	ug/L	500	220	760	
n-Propylbenzene	ND	ug/L	500	110	370	
ortho-Xylene	ND	ug/L	500	93	330	
Styrene	ND	ug/L	500	93	330	
1,1,1,2-Tetrachloroethane	ND	ug/L	500	99	350	
1,1,2,2-Tetrachloroethane	ND	ug/L	500	130	470	
Tetrachloroethene	ND	ug/L	500	110	390	
Toluene	ND	ug/L	500	100	370	
1,2,3-Trichlorobenzene	ND	ug/L	500	190	660	
1,2,4-Trichlorobenzene	ND	ug/L	500	150	520	
1,1,1-Trichloroethane	ND	ug/L	500	98	350	
1,1,2-Trichloroethane	ND	ug/L	500	98	350	
Trichloroethene	ND	ug/L	500	160	570	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911325 MW-4 Collected: 03/21/16 Analyzed: 03/25/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	500	100	350	
1,2,3-Trichloropropane	ND	ug/L	500	120	440	
1,2,4-Trimethylbenzene	ND	ug/L	500	100	370	
1,3,5-Trimethylbenzene	ND	ug/L	500	110	380	
Vinyl chloride	5600	ug/L	500	85	300	
meta,para-Xylene	ND	ug/L	500	190	660	
MTBE	ND	ug/L	500	100	360	
Isopropyl Ether	ND	ug/L	500	110	390	
Dibromofluoromethane (SURR)	118%					S
Toluene-d8 (SURR)	105%					S
1-Bromo-4-Fluorobenzene (SURR)	104%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911326 MW-4A Collected: 03/21/16 Analyzed: 03/25/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.24	0.84	
Bromobenzene	ND	ug/L	1	0.23	0.82	
Bromochloromethane	ND	ug/L	1	0.25	0.88	
Bromodichloromethane	ND	ug/L	1	0.27	0.94	
Bromoform	ND	ug/L	1	0.21	0.73	
Bromomethane	ND	ug/L	1	0.27	0.96	
n-Butylbenzene	ND	ug/L	1	0.21	0.73	
sec-Butylbenzene	ND	ug/L	1	0.19	0.66	
tert-Butylbenzene	ND	ug/L	1	0.19	0.68	
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroethane	ND	ug/L	1	0.93	3.3	
Chloroform	ND	ug/L	1	0.22	0.78	
Chloromethane	ND	ug/L	1	0.22	0.78	
2-Chlorotoluene	ND	ug/L	1	0.25	0.90	
4-Chlorotoluene	ND	ug/L	1	0.21	0.73	
Dibromochloromethane	ND	ug/L	1	0.16	0.56	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.18	0.63	
1,2-Dibromoethane	ND	ug/L	1	0.23	0.81	
Dibromomethane	ND	ug/L	1	0.22	0.78	
1,2-Dichlorobenzene	ND	ug/L	1	0.21	0.73	
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
Dichlorodifluoromethane	ND	ug/L	1	0.17	0.58	
1,1-Dichloroethane	ND	ug/L	1	0.19	0.67	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
cis-1,2-Dichloroethene	2.1	ug/L	1	0.24	0.84	
trans-1,2-Dichloroethene	ND	ug/L	1	0.17	0.60	
1,2-Dichloropropane	ND	ug/L	1	0.28	0.98	
1,3-Dichloropropane	ND	ug/L	1	0.24	0.84	
2,2-Dichloropropane	ND	ug/L	1	0.18	0.64	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.70	
cis-1,3-Dichloropropene	ND	ug/L	1	0.26	0.91	
trans-1,3-Dichloropropene	ND	ug/L	1	0.19	0.69	
Ethylbenzene	ND	ug/L	1	0.19	0.69	
Hexachlorobutadiene	ND	ug/L	1	0.30	1.1	
Isopropylbenzene	ND	ug/L	1	0.19	0.65	
p-Isopropyltoluene	ND	ug/L	1	0.18	0.62	
Methylene chloride	ND	ug/L	1	0.24	0.84	
Naphthalene	ND	ug/L	1	0.43	1.5	
n-Propylbenzene	ND	ug/L	1	0.21	0.74	
ortho-Xylene	ND	ug/L	1	0.19	0.66	
Styrene	ND	ug/L	1	0.19	0.66	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.20	0.70	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.26	0.94	
Tetrachloroethene	[0.33]	ug/L	1	0.22	0.78	
Toluene	ND	ug/L	1	0.21	0.74	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.37	1.3	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.30	1.0	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.69	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.32	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SATW Printed: 03/31/2016 17:10

Sample: 911326 MW-4A Collected: 03/21/16 Analyzed: 03/25/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.20	0.71	
1,2,3-Trichloropropane	ND	ug/L	1	0.25	0.87	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.74	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.76	
Vinyl chloride	ND	ug/L	1	0.17	0.60	
meta,para-Xylene	ND	ug/L	1	0.37	1.3	
MTBE	ND	ug/L	1	0.21	0.73	
Isopropyl Ether	ND	ug/L	1	0.22	0.78	
Dibromofluoromethane (SURR)	113%					S
Toluene-d8 (SURR)	113%					S
1-Bromo-4-Fluorobenzene (SURR)	104%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 1 of 18

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911315 DUP #1 Collected: 03/22/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	50	9.7	34	
Bromobenzene	ND	ug/L	50	12	43	
Bromochloromethane	ND	ug/L	50	7.6	27	
Bromodichloromethane	ND	ug/L	50	9.7	34	
Bromoform	ND	ug/L	50	7.9	28	
Bromomethane	ND	ug/L	50	11	40	
n-Butylbenzene	ND	ug/L	50	9.4	33	
sec-Butylbenzene	ND	ug/L	50	10	35	
tert-Butylbenzene	ND	ug/L	50	10	35	
Carbon Tetrachloride	ND	ug/L	50	9.4	33	
Chlorobenzene	ND	ug/L	50	7.9	28	
Chloroethane	ND	ug/L	50	77	270	
Chloroform	ND	ug/L	50	8.4	30	
Chloromethane	ND	ug/L	50	9.7	34	
2-Chlorotoluene	ND	ug/L	50	11	38	
4-Chlorotoluene	ND	ug/L	50	9.6	34	
Dibromochloromethane	ND	ug/L	50	8.6	31	
1,2-Dibromo-3-Chloropropane	ND	ug/L	50	10	37	
1,2-Dibromoethane	ND	ug/L	50	6.1	21	
Dibromomethane	ND	ug/L	50	10	37	
1,2-Dichlorobenzene	ND	ug/L	50	11	38	
1,3-Dichlorobenzene	ND	ug/L	50	10	36	
1,4-Dichlorobenzene	ND	ug/L	50	11	38	
Dichlorodifluoromethane	ND	ug/L	50	6.9	24	
1,1-Dichloroethane	ND	ug/L	50	9.0	32	
1,2-Dichloroethane	ND	ug/L	50	9.7	34	
1,1-Dichloroethene	ND	ug/L	50	8.1	29	
cis-1,2-Dichloroethene	540	ug/L	50	8.8	31	
trans-1,2-Dichloroethene	[22]	ug/L	50	7.3	26	
1,2-Dichloropropane	ND	ug/L	50	12	42	
1,3-Dichloropropane	ND	ug/L	50	8.9	31	
2,2-Dichloropropane	ND	ug/L	50	5.8	20	
1,1-Dichloropropene	ND	ug/L	50	7.6	27	
cis-1,3-Dichloropropene	ND	ug/L	50	9.7	34	
trans-1,3-Dichloropropene	ND	ug/L	50	7.2	26	
Ethylbenzene	ND	ug/L	50	15	53	
Hexachlorobutadiene	ND	ug/L	50	9.8	35	
Isopropylbenzene	ND	ug/L	50	8.5	30	
p-Isopropyltoluene	ND	ug/L	50	9.7	34	
Methylene chloride	ND	ug/L	50	9.9	35	
Naphthalene	ND	ug/L	50	15	52	
n-Propylbenzene	ND	ug/L	50	10	35	
ortho-Xylene	ND	ug/L	50	7.9	28	
Styrene	ND	ug/L	50	8.0	28	
1,1,1,2-Tetrachloroethane	ND	ug/L	50	9.4	33	
1,1,2,2-Tetrachloroethane	ND	ug/L	50	9.7	34	
Tetrachloroethene	240	ug/L	50	8.3	29	
Toluene	ND	ug/L	50	9.6	34	
1,2,3-Trichlorobenzene	ND	ug/L	50	9.9	35	
1,2,4-Trichlorobenzene	ND	ug/L	50	8.9	32	
1,1,1-Trichloroethane	ND	ug/L	50	8.6	30	
1,1,2-Trichloroethane	ND	ug/L	50	8.4	30	
Trichloroethene	150	ug/L	50	12	42	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911315 DUP #1 Collected: 03/22/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	50	8.5	30	
1,2,3-Trichloropropane	ND	ug/L	50	15	52	
1,2,4-Trimethylbenzene	ND	ug/L	50	9.2	33	
1,3,5-Trimethylbenzene	ND	ug/L	50	10	36	
Vinyl chloride	170	ug/L	50	8.1	29	
meta,para-Xylene	ND	ug/L	50	16	57	
MTBE	ND	ug/L	50	11	38	
Isopropyl ether	ND	ug/L	50	9.4	33	
Dibromofluoromethane (SURR)	117%					S
Toluene-d8 (SURR)	105%					S
1-Bromo-4-Fluorobenzene (SURR)	110%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 3 of 18

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911316 Trip Blank Collected: 03/22/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.69	
Bromobenzene	ND	ug/L	1	0.25	0.87	
Bromochloromethane	ND	ug/L	1	0.15	0.54	
Bromodichloromethane	ND	ug/L	1	0.19	0.68	
Bromoform	ND	ug/L	1	0.16	0.56	
Bromomethane	ND	ug/L	1	0.22	0.79	
n-Butylbenzene	ND	ug/L	1	0.19	0.67	
sec-Butylbenzene	ND	ug/L	1	0.20	0.71	
tert-Butylbenzene	ND	ug/L	1	0.20	0.71	
Carbon Tetrachloride	ND	ug/L	1	0.19	0.66	
Chlorobenzene	ND	ug/L	1	0.16	0.56	
Chloroethane	ND	ug/L	1	1.5	5.4	
Chloroform	ND	ug/L	1	0.17	0.60	
Chloromethane	ND	ug/L	1	0.19	0.68	
2-Chlorotoluene	ND	ug/L	1	0.21	0.75	
4-Chlorotoluene	ND	ug/L	1	0.19	0.68	
Dibromochloromethane	ND	ug/L	1	0.17	0.61	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.21	0.73	
1,2-Dibromoethane	ND	ug/L	1	0.12	0.43	
Dibromomethane	ND	ug/L	1	0.21	0.73	
1,2-Dichlorobenzene	ND	ug/L	1	0.22	0.76	
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.72	
1,4-Dichlorobenzene	ND	ug/L	1	0.21	0.76	
Dichlorodifluoromethane	ND	ug/L	1	0.14	0.49	
1,1-Dichloroethane	ND	ug/L	1	0.18	0.64	
1,2-Dichloroethane	ND	ug/L	1	0.19	0.69	
1,1-Dichloroethene	ND	ug/L	1	0.16	0.57	
cis-1,2-Dichloroethene	ND	ug/L	1	0.18	0.62	
trans-1,2-Dichloroethene	ND	ug/L	1	0.15	0.51	
1,2-Dichloropropane	ND	ug/L	1	0.24	0.84	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.63	
2,2-Dichloropropane	ND	ug/L	1	0.12	0.41	
1,1-Dichloropropene	ND	ug/L	1	0.15	0.54	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.68	
trans-1,3-Dichloropropene	ND	ug/L	1	0.14	0.51	
Ethylbenzene	ND	ug/L	1	0.30	1.1	
Hexachlorobutadiene	ND	ug/L	1	0.20	0.69	
Isopropylbenzene	ND	ug/L	1	0.17	0.60	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.68	
Methylene chloride	[0.36]	ug/L	1	0.20	0.70	LB
Naphthalene	ND	ug/L	1	0.29	1.0	
n-Propylbenzene	ND	ug/L	1	0.20	0.71	
ortho-Xylene	ND	ug/L	1	0.16	0.56	
Styrene	ND	ug/L	1	0.16	0.56	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.66	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.19	0.68	
Tetrachloroethene	ND	ug/L	1	0.17	0.58	
Toluene	ND	ug/L	1	0.19	0.68	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.20	0.70	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.63	
1,1,1-Trichloroethane	ND	ug/L	1	0.17	0.61	
1,1,2-Trichloroethane	ND	ug/L	1	0.17	0.59	
Trichloroethene	ND	ug/L	1	0.24	0.84	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911316 Trip Blank Collected: 03/22/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.17	0.60	
1,2,3-Trichloropropane	ND	ug/L	1	0.29	1.0	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.18	0.65	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.20	0.71	
Vinyl chloride	ND	ug/L	1	0.16	0.57	
meta,para-Xylene	ND	ug/L	1	0.32	1.1	
MTBE	ND	ug/L	1	0.22	0.76	
Isopropyl ether	ND	ug/L	1	0.19	0.66	
Dibromofluoromethane (SURR)	114%					S
Toluene-d8 (SURR)	107%					S
1-Bromo-4-Fluorobenzene (SURR)	106%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

LB = Compound is suspected of being a laboratory contaminant.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 5 of 18

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911317 IW-01 Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.69	
Bromobenzene	ND	ug/L	1	0.25	0.87	
Bromochloromethane	ND	ug/L	1	0.15	0.54	
Bromodichloromethane	ND	ug/L	1	0.19	0.68	
Bromoform	ND	ug/L	1	0.16	0.56	
Bromomethane	ND	ug/L	1	0.22	0.79	
n-Butylbenzene	ND	ug/L	1	0.19	0.67	
sec-Butylbenzene	ND	ug/L	1	0.20	0.71	
tert-Butylbenzene	ND	ug/L	1	0.20	0.71	
Carbon Tetrachloride	ND	ug/L	1	0.19	0.66	
Chlorobenzene	ND	ug/L	1	0.16	0.56	
Chloroethane	ND	ug/L	1	1.5	5.4	
Chloroform	ND	ug/L	1	0.17	0.60	
Chloromethane	ND	ug/L	1	0.19	0.68	
2-Chlorotoluene	ND	ug/L	1	0.21	0.75	
4-Chlorotoluene	ND	ug/L	1	0.19	0.68	
Dibromochloromethane	ND	ug/L	1	0.17	0.61	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.21	0.73	
1,2-Dibromoethane	ND	ug/L	1	0.12	0.43	
Dibromomethane	ND	ug/L	1	0.21	0.73	
1,2-Dichlorobenzene	ND	ug/L	1	0.22	0.76	
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.72	
1,4-Dichlorobenzene	ND	ug/L	1	0.21	0.76	
Dichlorodifluoromethane	ND	ug/L	1	0.14	0.49	
1,1-Dichloroethane	ND	ug/L	1	0.18	0.64	
1,2-Dichloroethane	ND	ug/L	1	0.19	0.69	
1,1-Dichloroethene	ND	ug/L	1	0.16	0.57	
cis-1,2-Dichloroethene	ND	ug/L	1	0.18	0.62	
trans-1,2-Dichloroethene	ND	ug/L	1	0.15	0.51	
1,2-Dichloropropane	ND	ug/L	1	0.24	0.84	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.63	
2,2-Dichloropropane	ND	ug/L	1	0.12	0.41	
1,1-Dichloropropene	ND	ug/L	1	0.15	0.54	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.68	
trans-1,3-Dichloropropene	ND	ug/L	1	0.14	0.51	
Ethylbenzene	ND	ug/L	1	0.30	1.1	
Hexachlorobutadiene	ND	ug/L	1	0.20	0.69	
Isopropylbenzene	ND	ug/L	1	0.17	0.60	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.68	
Methylene chloride	ND	ug/L	1	0.20	0.70	
Naphthalene	ND	ug/L	1	0.29	1.0	
n-Propylbenzene	ND	ug/L	1	0.20	0.71	
ortho-Xylene	ND	ug/L	1	0.16	0.56	
Styrene	ND	ug/L	1	0.16	0.56	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.66	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.19	0.68	
Tetrachloroethene	ND	ug/L	1	0.17	0.58	
Toluene	ND	ug/L	1	0.19	0.68	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.20	0.70	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.63	
1,1,1-Trichloroethane	ND	ug/L	1	0.17	0.61	
1,1,2-Trichloroethane	ND	ug/L	1	0.17	0.59	
Trichloroethene	ND	ug/L	1	0.24	0.84	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911317 IW-01 Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.17	0.60	
1,2,3-Trichloropropane	ND	ug/L	1	0.29	1.0	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.18	0.65	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.20	0.71	
Vinyl chloride	1.6	ug/L	1	0.16	0.57	
meta,para-Xylene	ND	ug/L	1	0.32	1.1	
MTBE	ND	ug/L	1	0.22	0.76	
Isopropyl ether	ND	ug/L	1	0.19	0.66	
Dibromofluoromethane (SURR)	112%					S
Toluene-d8 (SURR)	109%					S
1-Bromo-4-Fluorobenzene (SURR)	113%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 7 of 18

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911318 MW-2 Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	200	39	140	
Bromobenzene	ND	ug/L	200	49	170	
Bromochloromethane	ND	ug/L	200	30	110	
Bromodichloromethane	ND	ug/L	200	39	140	
Bromoform	ND	ug/L	200	32	110	
Bromomethane	ND	ug/L	200	45	160	
n-Butylbenzene	ND	ug/L	200	38	130	
sec-Butylbenzene	ND	ug/L	200	40	140	
tert-Butylbenzene	ND	ug/L	200	40	140	
Carbon Tetrachloride	ND	ug/L	200	37	130	
Chlorobenzene	ND	ug/L	200	32	110	
Chloroethane	ND	ug/L	200	310	1100	
Chloroform	ND	ug/L	200	34	120	
Chloromethane	ND	ug/L	200	39	140	
2-Chlorotoluene	ND	ug/L	200	42	150	
4-Chlorotoluene	ND	ug/L	200	38	140	
Dibromochloromethane	ND	ug/L	200	34	120	
1,2-Dibromo-3-Chloropropane	ND	ug/L	200	41	150	
1,2-Dibromoethane	ND	ug/L	200	24	86	
Dibromomethane	ND	ug/L	200	41	150	
1,2-Dichlorobenzene	ND	ug/L	200	43	150	
1,3-Dichlorobenzene	ND	ug/L	200	40	140	
1,4-Dichlorobenzene	ND	ug/L	200	43	150	
Dichlorodifluoromethane	ND	ug/L	200	28	98	
1,1-Dichloroethane	ND	ug/L	200	36	130	
1,2-Dichloroethane	ND	ug/L	200	39	140	
1,1-Dichloroethene	ND	ug/L	200	32	110	
cis-1,2-Dichloroethene	1700	ug/L	200	35	120	
trans-1,2-Dichloroethene	ND	ug/L	200	29	100	
1,2-Dichloropropane	ND	ug/L	200	47	170	
1,3-Dichloropropane	ND	ug/L	200	36	130	
2,2-Dichloropropane	ND	ug/L	200	23	82	
1,1-Dichloropropene	ND	ug/L	200	30	110	
cis-1,3-Dichloropropene	ND	ug/L	200	39	140	
trans-1,3-Dichloropropene	ND	ug/L	200	29	100	
Ethylbenzene	ND	ug/L	200	60	210	
Hexachlorobutadiene	ND	ug/L	200	39	140	
Isopropylbenzene	ND	ug/L	200	34	120	
p-Isopropyltoluene	ND	ug/L	200	39	140	
Methylene chloride	ND	ug/L	200	40	140	
Naphthalene	ND	ug/L	200	59	210	
n-Propylbenzene	ND	ug/L	200	40	140	
ortho-Xylene	ND	ug/L	200	31	110	
Styrene	ND	ug/L	200	32	110	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	37	130	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	39	140	
Tetrachloroethene	120	ug/L	200	33	120	
Toluene	ND	ug/L	200	38	140	
1,2,3-Trichlorobenzene	ND	ug/L	200	39	140	
1,2,4-Trichlorobenzene	ND	ug/L	200	36	130	
1,1,1-Trichloroethane	ND	ug/L	200	34	120	
1,1,2-Trichloroethane	ND	ug/L	200	34	120	
Trichloroethene	170	ug/L	200	47	170	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911318 MW-2 Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	200	34	120	
1,2,3-Trichloropropane	ND	ug/L	200	58	210	
1,2,4-Trimethylbenzene	ND	ug/L	200	37	130	
1,3,5-Trimethylbenzene	ND	ug/L	200	40	140	
Vinyl chloride	ND	ug/L	200	32	110	
meta,para-Xylene	ND	ug/L	200	64	230	
MTBE	ND	ug/L	200	43	150	
Isopropyl ether	ND	ug/L	200	37	130	
Dibromofluoromethane (SURR)	111%					S
Toluene-d8 (SURR)	107%					S
1-Bromo-4-Fluorobenzene (SURR)	106%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 9 of 18

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911319 MW-2A Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	200	39	140	
Bromobenzene	ND	ug/L	200	49	170	
Bromochloromethane	ND	ug/L	200	30	110	
Bromodichloromethane	ND	ug/L	200	39	140	
Bromoform	ND	ug/L	200	32	110	
Bromomethane	ND	ug/L	200	45	160	
n-Butylbenzene	ND	ug/L	200	38	130	
sec-Butylbenzene	ND	ug/L	200	40	140	
tert-Butylbenzene	ND	ug/L	200	40	140	
Carbon Tetrachloride	ND	ug/L	200	37	130	
Chlorobenzene	ND	ug/L	200	32	110	
Chloroethane	ND	ug/L	200	310	1100	
Chloroform	ND	ug/L	200	34	120	
Chloromethane	ND	ug/L	200	39	140	
2-Chlorotoluene	ND	ug/L	200	42	150	
4-Chlorotoluene	ND	ug/L	200	38	140	
Dibromochloromethane	ND	ug/L	200	34	120	
1,2-Dibromo-3-Chloropropane	ND	ug/L	200	41	150	
1,2-Dibromoethane	ND	ug/L	200	24	86	
Dibromomethane	ND	ug/L	200	41	150	
1,2-Dichlorobenzene	ND	ug/L	200	43	150	
1,3-Dichlorobenzene	ND	ug/L	200	40	140	
1,4-Dichlorobenzene	ND	ug/L	200	43	150	
Dichlorodifluoromethane	ND	ug/L	200	28	98	
1,1-Dichloroethane	ND	ug/L	200	36	130	
1,2-Dichloroethane	ND	ug/L	200	39	140	
1,1-Dichloroethene	ND	ug/L	200	32	110	
cis-1,2-Dichloroethene	2500	ug/L	200	35	120	
trans-1,2-Dichloroethene	ND	ug/L	200	29	100	
1,2-Dichloropropane	ND	ug/L	200	47	170	
1,3-Dichloropropane	ND	ug/L	200	36	130	
2,2-Dichloropropane	ND	ug/L	200	23	82	
1,1-Dichloropropene	ND	ug/L	200	30	110	
cis-1,3-Dichloropropene	ND	ug/L	200	39	140	
trans-1,3-Dichloropropene	ND	ug/L	200	29	100	
Ethylbenzene	ND	ug/L	200	60	210	
Hexachlorobutadiene	ND	ug/L	200	39	140	
Isopropylbenzene	ND	ug/L	200	34	120	
p-Isopropyltoluene	ND	ug/L	200	39	140	
Methylene chloride	ND	ug/L	200	40	140	
Naphthalene	ND	ug/L	200	59	210	
n-Propylbenzene	ND	ug/L	200	40	140	
ortho-Xylene	ND	ug/L	200	31	110	
Styrene	ND	ug/L	200	32	110	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	37	130	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	39	140	
Tetrachloroethene	ND	ug/L	200	33	120	
Toluene	ND	ug/L	200	38	140	
1,2,3-Trichlorobenzene	ND	ug/L	200	39	140	
1,2,4-Trichlorobenzene	ND	ug/L	200	36	130	
1,1,1-Trichloroethane	ND	ug/L	200	34	120	
1,1,2-Trichloroethane	ND	ug/L	200	34	120	
Trichloroethene	ND	ug/L	200	47	170	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911319 MW-2A Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	200	34	120	
1,2,3-Trichloropropane	ND	ug/L	200	58	210	
1,2,4-Trimethylbenzene	ND	ug/L	200	37	130	
1,3,5-Trimethylbenzene	ND	ug/L	200	40	140	
Vinyl chloride	[98]	ug/L	200	32	110	
meta,para-Xylene	ND	ug/L	200	64	230	
MTBE	ND	ug/L	200	43	150	
Isopropyl ether	ND	ug/L	200	37	130	
Dibromofluoromethane (SURR)	113%					S
Toluene-d8 (SURR)	107%					S
1-Bromo-4-Fluorobenzene (SURR)	108%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 11 of 18

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911320 MW-2B Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.69	
Bromobenzene	ND	ug/L	1	0.25	0.87	
Bromochloromethane	ND	ug/L	1	0.15	0.54	
Bromodichloromethane	ND	ug/L	1	0.19	0.68	
Bromoform	ND	ug/L	1	0.16	0.56	
Bromomethane	ND	ug/L	1	0.22	0.79	
n-Butylbenzene	ND	ug/L	1	0.19	0.67	
sec-Butylbenzene	ND	ug/L	1	0.20	0.71	
tert-Butylbenzene	ND	ug/L	1	0.20	0.71	
Carbon Tetrachloride	ND	ug/L	1	0.19	0.66	
Chlorobenzene	ND	ug/L	1	0.16	0.56	
Chloroethane	ND	ug/L	1	1.5	5.4	
Chloroform	ND	ug/L	1	0.17	0.60	
Chloromethane	ND	ug/L	1	0.19	0.68	
2-Chlorotoluene	ND	ug/L	1	0.21	0.75	
4-Chlorotoluene	ND	ug/L	1	0.19	0.68	
Dibromochloromethane	ND	ug/L	1	0.17	0.61	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.21	0.73	
1,2-Dibromoethane	ND	ug/L	1	0.12	0.43	
Dibromomethane	ND	ug/L	1	0.21	0.73	
1,2-Dichlorobenzene	ND	ug/L	1	0.22	0.76	
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.72	
1,4-Dichlorobenzene	ND	ug/L	1	0.21	0.76	
Dichlorodifluoromethane	ND	ug/L	1	0.14	0.49	
1,1-Dichloroethane	ND	ug/L	1	0.18	0.64	
1,2-Dichloroethane	ND	ug/L	1	0.19	0.69	
1,1-Dichloroethene	ND	ug/L	1	0.16	0.57	
cis-1,2-Dichloroethene	13	ug/L	1	0.18	0.62	
trans-1,2-Dichloroethene	[0.22]	ug/L	1	0.15	0.51	
1,2-Dichloropropane	ND	ug/L	1	0.24	0.84	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.63	
2,2-Dichloropropane	ND	ug/L	1	0.12	0.41	
1,1-Dichloropropene	ND	ug/L	1	0.15	0.54	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.68	
trans-1,3-Dichloropropene	ND	ug/L	1	0.14	0.51	
Ethylbenzene	ND	ug/L	1	0.30	1.1	
Hexachlorobutadiene	ND	ug/L	1	0.20	0.69	
Isopropylbenzene	ND	ug/L	1	0.17	0.60	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.68	
Methylene chloride	ND	ug/L	1	0.20	0.70	
Naphthalene	ND	ug/L	1	0.29	1.0	
n-Propylbenzene	ND	ug/L	1	0.20	0.71	
ortho-Xylene	ND	ug/L	1	0.16	0.56	
Styrene	ND	ug/L	1	0.16	0.56	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.66	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.19	0.68	
Tetrachloroethene	16	ug/L	1	0.17	0.58	
Toluene	ND	ug/L	1	0.19	0.68	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.20	0.70	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.63	
1,1,1-Trichloroethane	ND	ug/L	1	0.17	0.61	
1,1,2-Trichloroethane	ND	ug/L	1	0.17	0.59	
Trichloroethene	8.1	ug/L	1	0.24	0.84	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911320 MW-2B Collected: 03/21/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.17	0.60	
1,2,3-Trichloropropane	ND	ug/L	1	0.29	1.0	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.18	0.65	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.20	0.71	
Vinyl chloride	ND	ug/L	1	0.16	0.57	
meta,para-Xylene	ND	ug/L	1	0.32	1.1	
MTBE	ND	ug/L	1	0.22	0.76	
Isopropyl ether	ND	ug/L	1	0.19	0.66	
Dibromofluoromethane (SURR)	116%					S
Toluene-d8 (SURR)	107%					S
1-Bromo-4-Fluorobenzene (SURR)	111%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 13 of 18

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911321 MW-3 Collected: 03/22/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	[0.27]	ug/L	1	0.19	0.69	
Bromobenzene	ND	ug/L	1	0.25	0.87	
Bromochloromethane	ND	ug/L	1	0.15	0.54	
Bromodichloromethane	ND	ug/L	1	0.19	0.68	
Bromoform	ND	ug/L	1	0.16	0.56	
Bromomethane	ND	ug/L	1	0.22	0.79	
n-Butylbenzene	ND	ug/L	1	0.19	0.67	
sec-Butylbenzene	ND	ug/L	1	0.20	0.71	
tert-Butylbenzene	ND	ug/L	1	0.20	0.71	
Carbon Tetrachloride	ND	ug/L	1	0.19	0.66	
Chlorobenzene	ND	ug/L	1	0.16	0.56	
Chloroethane	ND	ug/L	1	1.5	5.4	
Chloroform	ND	ug/L	1	0.17	0.60	
Chloromethane	ND	ug/L	1	0.19	0.68	
2-Chlorotoluene	ND	ug/L	1	0.21	0.75	
4-Chlorotoluene	ND	ug/L	1	0.19	0.68	
Dibromochloromethane	ND	ug/L	1	0.17	0.61	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.21	0.73	
1,2-Dibromoethane	ND	ug/L	1	0.12	0.43	
Dibromomethane	ND	ug/L	1	0.21	0.73	
1,2-Dichlorobenzene	ND	ug/L	1	0.22	0.76	
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.72	
1,4-Dichlorobenzene	ND	ug/L	1	0.21	0.76	
Dichlorodifluoromethane	ND	ug/L	1	0.14	0.49	
1,1-Dichloroethane	ND	ug/L	1	0.18	0.64	
1,2-Dichloroethane	ND	ug/L	1	0.19	0.69	
1,1-Dichloroethene	ND	ug/L	1	0.16	0.57	
cis-1,2-Dichloroethene	3.0	ug/L	1	0.18	0.62	
trans-1,2-Dichloroethene	[0.30]	ug/L	1	0.15	0.51	
1,2-Dichloropropane	ND	ug/L	1	0.24	0.84	
1,3-Dichloropropane	ND	ug/L	1	0.18	0.63	
2,2-Dichloropropane	ND	ug/L	1	0.12	0.41	
1,1-Dichloropropene	ND	ug/L	1	0.15	0.54	
cis-1,3-Dichloropropene	ND	ug/L	1	0.19	0.68	
trans-1,3-Dichloropropene	ND	ug/L	1	0.14	0.51	
Ethylbenzene	ND	ug/L	1	0.30	1.1	
Hexachlorobutadiene	ND	ug/L	1	0.20	0.69	
Isopropylbenzene	ND	ug/L	1	0.17	0.60	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.68	
Methylene chloride	ND	ug/L	1	0.20	0.70	
Naphthalene	ND	ug/L	1	0.29	1.0	
n-Propylbenzene	ND	ug/L	1	0.20	0.71	
ortho-Xylene	[0.16]	ug/L	1	0.16	0.56	
Styrene	ND	ug/L	1	0.16	0.56	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.66	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.19	0.68	
Tetrachloroethene	ND	ug/L	1	0.17	0.58	
Toluene	ND	ug/L	1	0.19	0.68	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.20	0.70	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.18	0.63	
1,1,1-Trichloroethane	ND	ug/L	1	0.17	0.61	
1,1,2-Trichloroethane	ND	ug/L	1	0.17	0.59	
Trichloroethene	ND	ug/L	1	0.24	0.84	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911321 MW-3 Collected: 03/22/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.17	0.60	
1,2,3-Trichloropropane	ND	ug/L	1	0.29	1.0	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.18	0.65	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.20	0.71	
Vinyl chloride	12	ug/L	1	0.16	0.57	
meta,para-Xylene	[0.49]	ug/L	1	0.32	1.1	
MTBE	ND	ug/L	1	0.22	0.76	
Isopropyl ether	ND	ug/L	1	0.19	0.66	
Dibromofluoromethane (SURR)	115%					S
Toluene-d8 (SURR)	102%					S
1-Bromo-4-Fluorobenzene (SURR)	106%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 15 of 18

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911322 MW-3A Collected: 03/22/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1250	240	860	
Bromobenzene	ND	ug/L	1250	310	1100	
Bromochloromethane	ND	ug/L	1250	190	670	
Bromodichloromethane	ND	ug/L	1250	240	850	
Bromoform	ND	ug/L	1250	200	700	
Bromomethane	ND	ug/L	1250	280	990	
n-Butylbenzene	ND	ug/L	1250	240	840	
sec-Butylbenzene	ND	ug/L	1250	250	880	
tert-Butylbenzene	ND	ug/L	1250	250	890	
Carbon Tetrachloride	ND	ug/L	1250	230	830	
Chlorobenzene	ND	ug/L	1250	200	700	
Chloroethane	ND	ug/L	1250	1900	6800	
Chloroform	ND	ug/L	1250	210	740	
Chloromethane	ND	ug/L	1250	240	860	
2-Chlorotoluene	ND	ug/L	1250	270	940	
4-Chlorotoluene	ND	ug/L	1250	240	850	
Dibromochloromethane	ND	ug/L	1250	220	760	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1250	260	910	
1,2-Dibromoethane	ND	ug/L	1250	150	540	
Dibromomethane	ND	ug/L	1250	260	910	
1,2-Dichlorobenzene	ND	ug/L	1250	270	960	
1,3-Dichlorobenzene	ND	ug/L	1250	250	900	
1,4-Dichlorobenzene	ND	ug/L	1250	270	950	
Dichlorodifluoromethane	ND	ug/L	1250	170	610	
1,1-Dichloroethane	ND	ug/L	1250	230	800	
1,2-Dichloroethane	ND	ug/L	1250	240	860	
1,1-Dichloroethene	ND	ug/L	1250	200	720	
cis-1,2-Dichloroethene	16000	ug/L	1250	220	780	
trans-1,2-Dichloroethene	ND	ug/L	1250	180	640	
1,2-Dichloropropane	ND	ug/L	1250	300	1100	
1,3-Dichloropropane	ND	ug/L	1250	220	790	
2,2-Dichloropropane	ND	ug/L	1250	140	510	
1,1-Dichloropropene	ND	ug/L	1250	190	670	
cis-1,3-Dichloropropene	ND	ug/L	1250	240	860	
trans-1,3-Dichloropropene	ND	ug/L	1250	180	640	
Ethylbenzene	ND	ug/L	1250	380	1300	
Hexachlorobutadiene	ND	ug/L	1250	240	860	
Isopropylbenzene	ND	ug/L	1250	210	760	
p-Isopropyltoluene	ND	ug/L	1250	240	860	
Methylene chloride	ND	ug/L	1250	250	880	
Naphthalene	ND	ug/L	1250	370	1300	
n-Propylbenzene	ND	ug/L	1250	250	880	
ortho-Xylene	ND	ug/L	1250	200	700	
Styrene	ND	ug/L	1250	200	700	
1,1,1,2-Tetrachloroethane	ND	ug/L	1250	230	830	
1,1,2,2-Tetrachloroethane	ND	ug/L	1250	240	860	
Tetrachloroethene	ND	ug/L	1250	210	730	
Toluene	ND	ug/L	1250	240	850	
1,2,3-Trichlorobenzene	ND	ug/L	1250	250	870	
1,2,4-Trichlorobenzene	ND	ug/L	1250	220	790	
1,1,1-Trichloroethane	ND	ug/L	1250	220	760	
1,1,2-Trichloroethane	ND	ug/L	1250	210	740	
Trichloroethene	ND	ug/L	1250	300	1000	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911322 MW-3A Collected: 03/22/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1250	210	750	
1,2,3-Trichloropropane	ND	ug/L	1250	360	1300	
1,2,4-Trimethylbenzene	ND	ug/L	1250	230	810	
1,3,5-Trimethylbenzene	ND	ug/L	1250	250	890	
Vinyl chloride	2800	ug/L	1250	200	710	
meta,para-Xylene	ND	ug/L	1250	400	1400	
MTBE	ND	ug/L	1250	270	950	
Isopropyl ether	ND	ug/L	1250	230	830	
Dibromofluoromethane (SURR)	115%					S
Toluene-d8 (SURR)	109%					S
1-Bromo-4-Fluorobenzene (SURR)	109%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 17 of 18

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911323 MW-3B Collected: 03/22/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	250	49	170	
Bromobenzene	ND	ug/L	250	61	220	
Bromochloromethane	ND	ug/L	250	38	130	
Bromodichloromethane	ND	ug/L	250	48	170	
Bromoform	ND	ug/L	250	40	140	
Bromomethane	ND	ug/L	250	56	200	
n-Butylbenzene	ND	ug/L	250	47	170	
sec-Butylbenzene	ND	ug/L	250	50	180	
tert-Butylbenzene	ND	ug/L	250	50	180	
Carbon Tetrachloride	ND	ug/L	250	47	170	
Chlorobenzene	ND	ug/L	250	40	140	
Chloroethane	ND	ug/L	250	380	1400	
Chloroform	ND	ug/L	250	42	150	
Chloromethane	ND	ug/L	250	48	170	
2-Chlorotoluene	ND	ug/L	250	53	190	
4-Chlorotoluene	ND	ug/L	250	48	170	
Dibromochloromethane	ND	ug/L	250	43	150	
1,2-Dibromo-3-Chloropropane	ND	ug/L	250	52	180	
1,2-Dibromoethane	ND	ug/L	250	30	110	
Dibromomethane	ND	ug/L	250	52	180	
1,2-Dichlorobenzene	ND	ug/L	250	54	190	
1,3-Dichlorobenzene	ND	ug/L	250	51	180	
1,4-Dichlorobenzene	ND	ug/L	250	54	190	
Dichlorodifluoromethane	ND	ug/L	250	35	120	
1,1-Dichloroethane	ND	ug/L	250	45	160	
1,2-Dichloroethane	ND	ug/L	250	49	170	
1,1-Dichloroethene	ND	ug/L	250	40	140	
cis-1,2-Dichloroethene	1100	ug/L	250	44	160	
trans-1,2-Dichloroethene	ND	ug/L	250	36	130	
1,2-Dichloropropane	ND	ug/L	250	59	210	
1,3-Dichloropropane	ND	ug/L	250	45	160	
2,2-Dichloropropane	ND	ug/L	250	29	100	
1,1-Dichloropropene	ND	ug/L	250	38	130	
cis-1,3-Dichloropropene	ND	ug/L	250	48	170	
trans-1,3-Dichloropropene	ND	ug/L	250	36	130	
Ethylbenzene	ND	ug/L	250	75	270	
Hexachlorobutadiene	ND	ug/L	250	49	170	
Isopropylbenzene	ND	ug/L	250	43	150	
p-Isopropyltoluene	ND	ug/L	250	48	170	
Methylene chloride	ND	ug/L	250	50	180	
Naphthalene	ND	ug/L	250	73	260	
n-Propylbenzene	ND	ug/L	250	50	180	
ortho-Xylene	ND	ug/L	250	39	140	
Styrene	ND	ug/L	250	40	140	
1,1,1,2-Tetrachloroethane	ND	ug/L	250	47	170	
1,1,2,2-Tetrachloroethane	ND	ug/L	250	48	170	
Tetrachloroethene	3400	ug/L	250	41	150	
Toluene	ND	ug/L	250	48	170	
1,2,3-Trichlorobenzene	ND	ug/L	250	49	170	
1,2,4-Trichlorobenzene	ND	ug/L	250	45	160	
1,1,1-Trichloroethane	ND	ug/L	250	43	150	
1,1,2-Trichloroethane	ND	ug/L	250	42	150	
Trichloroethene	1300	ug/L	250	59	210	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 257215

Project Description: DB Oak / 42-37320

Project Title: Template: SAT3W Printed: 03/31/2016 17:10

Sample: 911323 MW-3B Collected: 03/22/16 Analyzed: 03/24/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	250	42	150	
1,2,3-Trichloropropane	ND	ug/L	250	73	260	
1,2,4-Trimethylbenzene	ND	ug/L	250	46	160	
1,3,5-Trimethylbenzene	ND	ug/L	250	50	180	
Vinyl chloride	300	ug/L	250	40	140	
meta,para-Xylene	ND	ug/L	250	80	280	
MTBE	ND	ug/L	250	54	190	
Isopropyl ether	ND	ug/L	250	47	170	
Dibromofluoromethane (SURR)	112%					S
Toluene-d8 (SURR)	105%					S
1-Bromo-4-Fluorobenzene (SURR)	105%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298

Tel: (715) 478-2777 • Fax: (715) 478-3060

CLIENT *SHANNON & WILSON, INC.*

ADDRESS *2110 LUANN LANE, SUITE 101*

CITY *MADISON* STATE *WI* ZIP *53713*

PROJECT DESCRIPTION / NO. *DB OAK 142-1-3 B20* QUOTATION NO.

DNR FID # _____ DNR LICENSE # _____

CONTACT *MARK McCOLLOCH* PHONE *608/442-5223*

PURCHASE ORDER NO. _____ FAX *608/442-9013*

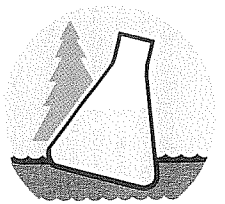
Wisconsin DNR cert ID
721026460 (Cran) / 268533760 (Wauk)

Wisconsin DATCP ID
105-000330 (Cran) / 105-000479 (Wauk)

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
DW = drinking water
TIS = tissue
AIR = air
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS	KCL	MAE	VSDF																
	40 ml vials																		
	125 plastic																		



NO. **201998**

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS										COLLECTION REMARKS (i.e. DNR Well ID #)				
			DATE	TIME		KCL	MAE	VSDF												
1.	<i>911307</i>	<i>MW-7</i>	<i>03-21-16</i>	<i>1235</i>	<i>GW</i>	<i>2</i>	<i>1</i>	<i>1</i>												
2.	<i>308</i>	<i>MW-7A</i>	<i>03-21-16</i>	<i>1245</i>		<i>2</i>	<i>1</i>	<i>1</i>												
3.	<i>309</i>	<i>MW-7B</i>	<i>03-21-16</i>	<i>1220</i>		<i>2</i>	<i>1</i>	<i>1</i>												
4.	<i>310</i>	<i>MW-9</i>	<i>03-21-16</i>	<i>1035</i>		<i>2</i>	<i>1</i>	<i>1</i>												
5.	<i>311</i>	<i>MW-9A</i>	<i>03-21-16</i>	<i>1030</i>		<i>2</i>	<i>1</i>	<i>1</i>												
6.	<i>312</i>	<i>TW-01</i>	<i>03-22-16</i>	<i>1035</i>		<i>2</i>	<i>1</i>	<i>1</i>												
7.	<i>313</i>	<i>TW-02</i>	<i>03-22-16</i>	<i>1015</i>		<i>2</i>	<i>1</i>	<i>1</i>												
8.	<i>314</i>	<i>TW-03</i>	<i>03-22-16</i>	<i>1130</i>	<i>↓</i>	<i>2</i>	<i>1</i>	<i>1</i>												
9.	<i>315</i>	<i>DUP#1</i>	<i>03-22-16</i>	<i>1020</i>	<i>↓</i>	<i>2</i>	<i>0</i>	<i>0</i>												
10.	<i>316</i>	<i>TRIP BLANK</i>																		

COLLECTED BY (signature) *Mark McCulloch* CUSTODY SEAL NO. (IF ANY) _____ DATE/TIME *03-22-16 1345*

RELINQUISHED BY (signature) *Mark McCulloch* RECEIVED BY (signature) _____ DATE/TIME *03-22-16 1345*

DISPATCHED BY (signature) _____ METHOD OF TRANSPORT _____ DATE/TIME _____

REPORT TO
MARK McCOLLOCH
SHANNON & WILSON, INC.
2110 LUANN LANE, SUITE 101
MADISON, WI 53713

RECEIVED AT NLS BY (signature) *John K...* DATE/TIME *3/23/16 9* CONDITION *Good* TEMP. _____

COOLER # _____ REMARKS & OTHER INFORMATION _____

PRESERVATIVE: N = nitric acid OH = sodium hydroxide
NP = no preservative Z = zinc acetate HA = hydrochloric & ascorbic acid
S = sulfuric acid M = methanol H = hydrochloric acid

WDNR FACILITY NUMBER _____ E-MAIL ADDRESS _____

INVOICE TO
SAME

IMPORTANT:

- TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
- PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
- RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP YELLOW COPY.
- PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

Rev. 7/20/15

CLIENT *SHANNON F WILSON, INC.*
 ADDRESS *2110 LUANN LANE, SUITE 101*
 CITY *MADISON* STATE *WI* ZIP *53713*
 PROJECT DESCRIPTION / NO. *DB OAK* / *142-1-37320* QUOTATION NO. *142-1-37320*
 DNR FID # _____ DNR LICENSE # _____
 CONTACT *MARK McGILLOCH* PHONE *608 442-5223*
 PURCHASE ORDER NO. _____ FAX *608 442-9013*

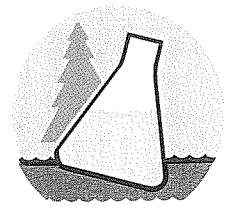
Wisconsin DNR cert ID
 721026460 (Cran) / 268533760 (Wauk)
 Wisconsin DATCP ID
 105-000330 (Cran) / 105-000479 (Wauk)

Analytical Laboratory and Environmental Services
 400 North Lake Avenue • Crandon, WI 54520-1298
 Tel: (715) 478-2777 • Fax: (715) 478-3060

MATRIX:
 SW = surface water
 WW = waste water
 GW = groundwater
 DW = drinking water
 TIS = tissue
 AIR = air
 SOIL = soil
 SED = sediment
 PROD = product
 SL = sludge
 OTHER _____

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
 Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS	USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered. Indicate G or C if WW Sample is Grab or Composite.									
	100 mL	125 mL	125 mL							
40 mL VOA vials										
125 mL plastic										
125 mL plastic										



NO. 201997

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS										COLLECTION REMARKS (i.e. DNR Well ID #)		
			DATE	TIME		100 mL	125 mL	125 mL										
1.	317	IW-01	03-21-16	1104	GW	2	1	1										
2.	318	MW-2	03-21-16	1430	↓	2	1	1										
3.	319	MW-2A	03-21-16	1445		2	1	1										
4.	320	MW-2B	03-21-16	1415		2	1	1										
5.	321	MW-3	03-22-16	930		2	1	1										
6.	322	MW-3A	03-22-16	1030		2	1	1										
7.	323	MW-3B	03-22-16	935		2	1	1										
8.	324	MW-3C	03-22-16	1210		2	1	1										
9.	325	MW-4	03-21-16	1540		2	1	1										
10.	326	MW-4A	03-21-16	1530		2	1	1										

COLLECTED BY (signature) *Mark Mc Gilloch* CUSTODY SEAL NO. (IF ANY) _____ DATE/TIME *03-22-16 1345*
 RELINQUISHED BY (signature) *Mark Mc Gilloch* RECEIVED BY (signature) *Dunham Express* DATE/TIME *03-22-16 1345*
 DISPATCHED BY (signature) _____ METHOD OF TRANSPORT _____ DATE/TIME _____

REPORT TO
MARK Mc Gilloch
SHANNON F WILSON, INC.
2110 LUANN LANE, SUITE 101
MADISON, WI 53713

RECEIVED AT NLS BY (signature) *John Braun* DATE/TIME *3/23/16 9* CONDITION *Full* TEMP. _____
 COOLER # _____ REMARKS & OTHER INFORMATION _____
 PRESERVATIVE: N = nitric acid OH = sodium hydroxide
 NP = no preservative Z = zinc acetate HA = hydrochloric & ascorbic acid
 S = sulfuric acid M = methanol H = hydrochloric acid
 WDNR FACILITY NUMBER _____ E-MAIL ADDRESS _____

INVOICE TO
SAME

ANALYTICAL REPORT

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 257757
NLS Customer: 104721
 Fax: 608 442 9013 Phone: 608 442 5223

Project: DB Oak/42-1-2-37320

MW - 10 NLS ID: 913045

COC: 201936:1 Matrix: GW
 Collected: 03/31/16 12:20 Received: 04/01/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					04/05/16	SW846 8260C	721026460

MW - 10A NLS ID: 913046

COC: 201936:2 Matrix: GW
 Collected: 03/31/16 16:10 Received: 04/01/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					04/05/16	SW846 8260C	721026460

MW - 11 NLS ID: 913047

COC: 201936:3 Matrix: GW
 Collected: 03/31/16 12:45 Received: 04/01/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					04/05/16	SW846 8260C	721026460

MW - 12 NLS ID: 913048

COC: 201936:4 Matrix: GW
 Collected: 03/31/16 17:20 Received: 04/01/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					04/06/16	SW846 8260C	721026460

MW - 12A NLS ID: 913049

COC: 201936:5 Matrix: GW
 Collected: 03/31/16 16:00 Received: 04/01/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					04/07/16	SW846 8260C	721026460

Dup #2 NLS ID: 913050

COC: 201936:6 Matrix: GW
 Collected: 03/31/16 16:05 Received: 04/01/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					04/07/16	SW846 8260C	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable
 DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
 R. T. Krueger
 President

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 1 of 8

Customer: Shannon & Wilson, Inc. NLS Project: 257757

Project Description: DB Oak/42-1-2-37320

Project Title: Template: SATW Printed: 04/08/2016 17:07

Sample: 913045 MW - 10 Collected: 03/31/16 Analyzed: 04/05/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.24	0.84	
Bromobenzene	ND	ug/L	1	0.23	0.82	
Bromochloromethane	ND	ug/L	1	0.25	0.88	
Bromodichloromethane	ND	ug/L	1	0.27	0.94	
Bromoform	ND	ug/L	1	0.21	0.73	
Bromomethane	ND	ug/L	1	0.27	0.96	
n-Butylbenzene	ND	ug/L	1	0.21	0.73	
sec-Butylbenzene	ND	ug/L	1	0.19	0.66	
tert-Butylbenzene	ND	ug/L	1	0.19	0.68	
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroethane	ND	ug/L	1	0.93	3.3	
Chloroform	ND	ug/L	1	0.22	0.78	
Chloromethane	ND	ug/L	1	0.22	0.78	
2-Chlorotoluene	ND	ug/L	1	0.25	0.90	
4-Chlorotoluene	ND	ug/L	1	0.21	0.73	
Dibromochloromethane	ND	ug/L	1	0.16	0.56	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.18	0.63	
1,2-Dibromoethane	ND	ug/L	1	0.23	0.81	
Dibromomethane	ND	ug/L	1	0.22	0.78	
1,2-Dichlorobenzene	ND	ug/L	1	0.21	0.73	
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
Dichlorodifluoromethane	ND	ug/L	1	0.17	0.58	
1,1-Dichloroethane	ND	ug/L	1	0.19	0.67	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
cis-1,2-Dichloroethene	ND	ug/L	1	0.24	0.84	
trans-1,2-Dichloroethene	ND	ug/L	1	0.17	0.60	
1,2-Dichloropropane	ND	ug/L	1	0.28	0.98	
1,3-Dichloropropane	ND	ug/L	1	0.24	0.84	
2,2-Dichloropropane	ND	ug/L	1	0.18	0.64	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.70	
cis-1,3-Dichloropropene	ND	ug/L	1	0.26	0.91	
trans-1,3-Dichloropropene	ND	ug/L	1	0.19	0.69	
Ethylbenzene	ND	ug/L	1	0.19	0.69	
Hexachlorobutadiene	ND	ug/L	1	0.30	1.1	
Isopropylbenzene	ND	ug/L	1	0.19	0.65	
p-Isopropyltoluene	ND	ug/L	1	0.18	0.62	
Methylene chloride	ND	ug/L	1	0.24	0.84	
Naphthalene	ND	ug/L	1	0.43	1.5	
n-Propylbenzene	ND	ug/L	1	0.21	0.74	
ortho-Xylene	ND	ug/L	1	0.19	0.66	
Styrene	ND	ug/L	1	0.19	0.66	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.20	0.70	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.26	0.94	
Tetrachloroethene	ND	ug/L	1	0.22	0.78	
Toluene	ND	ug/L	1	0.21	0.74	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.37	1.3	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.30	1.0	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.69	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.32	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257757

Project Description: DB Oak/42-1-2-37320

Project Title: Template: SATW Printed: 04/08/2016 17:07

Sample: 913045 MW - 10 Collected: 03/31/16 Analyzed: 04/05/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.20	0.71	
1,2,3-Trichloropropane	ND	ug/L	1	0.25	0.87	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.74	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.76	
Vinyl chloride	ND	ug/L	1	0.17	0.60	
meta,para-Xylene	ND	ug/L	1	0.37	1.3	
MTBE	ND	ug/L	1	0.21	0.73	
Isopropyl Ether	ND	ug/L	1	0.22	0.78	
Dibromofluoromethane (SURR)	110%					S
Toluene-d8 (SURR)	88%					S
1-Bromo-4-Fluorobenzene (SURR)	96%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 3 of 8

Customer: Shannon & Wilson, Inc. NLS Project: 257757

Project Description: DB Oak/42-1-2-37320

Project Title: Template: SATW Printed: 04/08/2016 17:07

Sample: 913046 MW - 10A Collected: 03/31/16 Analyzed: 04/05/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.24	0.84	
Bromobenzene	ND	ug/L	1	0.23	0.82	
Bromochloromethane	ND	ug/L	1	0.25	0.88	
Bromodichloromethane	ND	ug/L	1	0.27	0.94	
Bromoform	ND	ug/L	1	0.21	0.73	
Bromomethane	ND	ug/L	1	0.27	0.96	
n-Butylbenzene	ND	ug/L	1	0.21	0.73	
sec-Butylbenzene	ND	ug/L	1	0.19	0.66	
tert-Butylbenzene	ND	ug/L	1	0.19	0.68	
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroethane	ND	ug/L	1	0.93	3.3	
Chloroform	ND	ug/L	1	0.22	0.78	
Chloromethane	ND	ug/L	1	0.22	0.78	
2-Chlorotoluene	ND	ug/L	1	0.25	0.90	
4-Chlorotoluene	ND	ug/L	1	0.21	0.73	
Dibromochloromethane	ND	ug/L	1	0.16	0.56	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.18	0.63	
1,2-Dibromoethane	ND	ug/L	1	0.23	0.81	
Dibromomethane	ND	ug/L	1	0.22	0.78	
1,2-Dichlorobenzene	ND	ug/L	1	0.21	0.73	
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
Dichlorodifluoromethane	ND	ug/L	1	0.17	0.58	
1,1-Dichloroethane	ND	ug/L	1	0.19	0.67	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
cis-1,2-Dichloroethene	ND	ug/L	1	0.24	0.84	
trans-1,2-Dichloroethene	ND	ug/L	1	0.17	0.60	
1,2-Dichloropropane	ND	ug/L	1	0.28	0.98	
1,3-Dichloropropane	ND	ug/L	1	0.24	0.84	
2,2-Dichloropropane	ND	ug/L	1	0.18	0.64	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.70	
cis-1,3-Dichloropropene	ND	ug/L	1	0.26	0.91	
trans-1,3-Dichloropropene	ND	ug/L	1	0.19	0.69	
Ethylbenzene	ND	ug/L	1	0.19	0.69	
Hexachlorobutadiene	ND	ug/L	1	0.30	1.1	
Isopropylbenzene	ND	ug/L	1	0.19	0.65	
p-Isopropyltoluene	ND	ug/L	1	0.18	0.62	
Methylene chloride	ND	ug/L	1	0.24	0.84	
Naphthalene	ND	ug/L	1	0.43	1.5	
n-Propylbenzene	ND	ug/L	1	0.21	0.74	
ortho-Xylene	ND	ug/L	1	0.19	0.66	
Styrene	ND	ug/L	1	0.19	0.66	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.20	0.70	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.26	0.94	
Tetrachloroethene	ND	ug/L	1	0.22	0.78	
Toluene	ND	ug/L	1	0.21	0.74	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.37	1.3	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.30	1.0	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.69	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.32	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257757

Project Description: DB Oak/42-1-2-37320

Project Title: Template: SATW Printed: 04/08/2016 17:07

Sample: 913046 MW - 10A Collected: 03/31/16 Analyzed: 04/05/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.20	0.71	
1,2,3-Trichloropropane	ND	ug/L	1	0.25	0.87	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.74	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.76	
Vinyl chloride	ND	ug/L	1	0.17	0.60	
meta,para-Xylene	ND	ug/L	1	0.37	1.3	
MTBE	ND	ug/L	1	0.21	0.73	
Isopropyl Ether	ND	ug/L	1	0.22	0.78	
Dibromofluoromethane (SURR)	106%					S
Toluene-d8 (SURR)	86%					S
1-Bromo-4-Fluorobenzene (SURR)	98%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 5 of 8

Customer: Shannon & Wilson, Inc. NLS Project: 257757

Project Description: DB Oak/42-1-2-37320

Project Title: Template: SATW Printed: 04/08/2016 17:07

Sample: 913047 MW - 11 Collected: 03/31/16 Analyzed: 04/05/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.24	0.84	
Bromobenzene	ND	ug/L	1	0.23	0.82	
Bromochloromethane	ND	ug/L	1	0.25	0.88	
Bromodichloromethane	ND	ug/L	1	0.27	0.94	
Bromoform	ND	ug/L	1	0.21	0.73	
Bromomethane	ND	ug/L	1	0.27	0.96	
n-Butylbenzene	ND	ug/L	1	0.21	0.73	
sec-Butylbenzene	ND	ug/L	1	0.19	0.66	
tert-Butylbenzene	ND	ug/L	1	0.19	0.68	
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroethane	ND	ug/L	1	0.93	3.3	
Chloroform	ND	ug/L	1	0.22	0.78	
Chloromethane	ND	ug/L	1	0.22	0.78	
2-Chlorotoluene	ND	ug/L	1	0.25	0.90	
4-Chlorotoluene	ND	ug/L	1	0.21	0.73	
Dibromochloromethane	ND	ug/L	1	0.16	0.56	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.18	0.63	
1,2-Dibromoethane	ND	ug/L	1	0.23	0.81	
Dibromomethane	ND	ug/L	1	0.22	0.78	
1,2-Dichlorobenzene	ND	ug/L	1	0.21	0.73	
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
Dichlorodifluoromethane	ND	ug/L	1	0.17	0.58	
1,1-Dichloroethane	ND	ug/L	1	0.19	0.67	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
cis-1,2-Dichloroethene	ND	ug/L	1	0.24	0.84	
trans-1,2-Dichloroethene	ND	ug/L	1	0.17	0.60	
1,2-Dichloropropane	ND	ug/L	1	0.28	0.98	
1,3-Dichloropropane	ND	ug/L	1	0.24	0.84	
2,2-Dichloropropane	ND	ug/L	1	0.18	0.64	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.70	
cis-1,3-Dichloropropene	ND	ug/L	1	0.26	0.91	
trans-1,3-Dichloropropene	ND	ug/L	1	0.19	0.69	
Ethylbenzene	ND	ug/L	1	0.19	0.69	
Hexachlorobutadiene	ND	ug/L	1	0.30	1.1	
Isopropylbenzene	ND	ug/L	1	0.19	0.65	
p-Isopropyltoluene	ND	ug/L	1	0.18	0.62	
Methylene chloride	ND	ug/L	1	0.24	0.84	
Naphthalene	ND	ug/L	1	0.43	1.5	
n-Propylbenzene	ND	ug/L	1	0.21	0.74	
ortho-Xylene	ND	ug/L	1	0.19	0.66	
Styrene	ND	ug/L	1	0.19	0.66	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.20	0.70	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.26	0.94	
Tetrachloroethene	ND	ug/L	1	0.22	0.78	
Toluene	ND	ug/L	1	0.21	0.74	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.37	1.3	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.30	1.0	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.69	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	[0.33]	ug/L	1	0.32	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257757

Project Description: DB Oak/42-1-2-37320

Project Title: Template: SATW Printed: 04/08/2016 17:07

Sample: 913047 MW - 11 Collected: 03/31/16 Analyzed: 04/05/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.20	0.71	
1,2,3-Trichloropropane	ND	ug/L	1	0.25	0.87	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.74	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.76	
Vinyl chloride	ND	ug/L	1	0.17	0.60	
meta,para-Xylene	ND	ug/L	1	0.37	1.3	
MTBE	ND	ug/L	1	0.21	0.73	
Isopropyl Ether	ND	ug/L	1	0.22	0.78	
Dibromofluoromethane (SURR)	107%					S
Toluene-d8 (SURR)	89%					S
1-Bromo-4-Fluorobenzene (SURR)	105%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 7 of 8

Customer: Shannon & Wilson, Inc. NLS Project: 257757

Project Description: DB Oak/42-1-2-37320

Project Title: Template: SATW Printed: 04/08/2016 17:07

Sample: 913048 MW - 12 Collected: 03/31/16 Analyzed: 04/06/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	[0.26]	ug/L	1	0.24	0.84	
Bromobenzene	ND	ug/L	1	0.23	0.82	
Bromochloromethane	ND	ug/L	1	0.25	0.88	
Bromodichloromethane	ND	ug/L	1	0.27	0.94	
Bromoform	ND	ug/L	1	0.21	0.73	
Bromomethane	ND	ug/L	1	0.27	0.96	
n-Butylbenzene	ND	ug/L	1	0.21	0.73	
sec-Butylbenzene	ND	ug/L	1	0.19	0.66	
tert-Butylbenzene	ND	ug/L	1	0.19	0.68	
Carbon Tetrachloride	ND	ug/L	1	0.16	0.55	
Chlorobenzene	ND	ug/L	1	0.25	0.87	
Chloroethane	ND	ug/L	1	0.93	3.3	
Chloroform	ND	ug/L	1	0.22	0.78	
Chloromethane	ND	ug/L	1	0.22	0.78	
2-Chlorotoluene	ND	ug/L	1	0.25	0.90	
4-Chlorotoluene	ND	ug/L	1	0.21	0.73	
Dibromochloromethane	ND	ug/L	1	0.16	0.56	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.18	0.63	
1,2-Dibromoethane	ND	ug/L	1	0.23	0.81	
Dibromomethane	ND	ug/L	1	0.22	0.78	
1,2-Dichlorobenzene	ND	ug/L	1	0.21	0.73	
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70	
1,4-Dichlorobenzene	ND	ug/L	1	0.27	0.95	
Dichlorodifluoromethane	ND	ug/L	1	0.17	0.58	
1,1-Dichloroethane	ND	ug/L	1	0.19	0.67	
1,2-Dichloroethane	ND	ug/L	1	0.22	0.78	
1,1-Dichloroethene	ND	ug/L	1	0.20	0.69	
cis-1,2-Dichloroethene	20	ug/L	1	0.24	0.84	
trans-1,2-Dichloroethene	[0.47]	ug/L	1	0.17	0.60	
1,2-Dichloropropane	ND	ug/L	1	0.28	0.98	
1,3-Dichloropropane	ND	ug/L	1	0.24	0.84	
2,2-Dichloropropane	ND	ug/L	1	0.18	0.64	
1,1-Dichloropropene	ND	ug/L	1	0.20	0.70	
cis-1,3-Dichloropropene	ND	ug/L	1	0.26	0.91	
trans-1,3-Dichloropropene	ND	ug/L	1	0.19	0.69	
Ethylbenzene	ND	ug/L	1	0.19	0.69	
Hexachlorobutadiene	ND	ug/L	1	0.30	1.1	
Isopropylbenzene	ND	ug/L	1	0.19	0.65	
p-Isopropyltoluene	ND	ug/L	1	0.18	0.62	
Methylene chloride	ND	ug/L	1	0.24	0.84	
Naphthalene	ND	ug/L	1	0.43	1.5	
n-Propylbenzene	ND	ug/L	1	0.21	0.74	
ortho-Xylene	ND	ug/L	1	0.19	0.66	
Styrene	ND	ug/L	1	0.19	0.66	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.20	0.70	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.26	0.94	
Tetrachloroethene	ND	ug/L	1	0.22	0.78	
Toluene	ND	ug/L	1	0.21	0.74	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.37	1.3	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.30	1.0	
1,1,1-Trichloroethane	ND	ug/L	1	0.20	0.69	
1,1,2-Trichloroethane	ND	ug/L	1	0.20	0.69	
Trichloroethene	ND	ug/L	1	0.32	1.1	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257757

Project Description: DB Oak/42-1-2-37320

Project Title: Template: SATW Printed: 04/08/2016 17:07

Sample: 913048 MW - 12 Collected: 03/31/16 Analyzed: 04/06/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.20	0.71	
1,2,3-Trichloropropane	ND	ug/L	1	0.25	0.87	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.74	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.76	
Vinyl chloride	[0.35]	ug/L	1	0.17	0.60	
meta,para-Xylene	ND	ug/L	1	0.37	1.3	
MTBE	ND	ug/L	1	0.21	0.73	
Isopropyl Ether	ND	ug/L	1	0.22	0.78	
Dibromofluoromethane (SURR)	106%					S
Toluene-d8 (SURR)	103%					S
1-Bromo-4-Fluorobenzene (SURR)	109%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 1 of 4

Customer: Shannon & Wilson, Inc. NLS Project: 257757

Project Description: DB Oak/42-1-2-37320

Project Title: Template: SAT3W Printed: 04/08/2016 17:07

Sample: 913049 MW - 12A Collected: 03/31/16 Analyzed: 04/07/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	200	39	140	
Bromobenzene	ND	ug/L	200	49	170	
Bromochloromethane	ND	ug/L	200	30	110	
Bromodichloromethane	ND	ug/L	200	39	140	
Bromoform	ND	ug/L	200	32	110	
Bromomethane	ND	ug/L	200	45	160	
n-Butylbenzene	ND	ug/L	200	38	130	
sec-Butylbenzene	ND	ug/L	200	40	140	
tert-Butylbenzene	ND	ug/L	200	40	140	
Carbon Tetrachloride	ND	ug/L	200	37	130	
Chlorobenzene	ND	ug/L	200	32	110	
Chloroethane	ND	ug/L	200	310	1100	
Chloroform	ND	ug/L	200	34	120	
Chloromethane	ND	ug/L	200	39	140	
2-Chlorotoluene	ND	ug/L	200	42	150	
4-Chlorotoluene	ND	ug/L	200	38	140	
Dibromochloromethane	ND	ug/L	200	34	120	
1,2-Dibromo-3-Chloropropane	ND	ug/L	200	41	150	
1,2-Dibromoethane	ND	ug/L	200	24	86	
Dibromomethane	ND	ug/L	200	41	150	
1,2-Dichlorobenzene	ND	ug/L	200	43	150	
1,3-Dichlorobenzene	ND	ug/L	200	40	140	
1,4-Dichlorobenzene	ND	ug/L	200	43	150	
Dichlorodifluoromethane	ND	ug/L	200	28	98	
1,1-Dichloroethane	ND	ug/L	200	36	130	
1,2-Dichloroethane	ND	ug/L	200	39	140	
1,1-Dichloroethene	ND	ug/L	200	32	110	
cis-1,2-Dichloroethene	2400	ug/L	200	35	120	
trans-1,2-Dichloroethene	ND	ug/L	200	29	100	
1,2-Dichloropropane	ND	ug/L	200	47	170	
1,3-Dichloropropane	ND	ug/L	200	36	130	
2,2-Dichloropropane	ND	ug/L	200	23	82	
1,1-Dichloropropene	ND	ug/L	200	30	110	
cis-1,3-Dichloropropene	ND	ug/L	200	39	140	
trans-1,3-Dichloropropene	ND	ug/L	200	29	100	
Ethylbenzene	ND	ug/L	200	60	210	
Hexachlorobutadiene	ND	ug/L	200	39	140	
Isopropylbenzene	ND	ug/L	200	34	120	
p-Isopropyltoluene	ND	ug/L	200	39	140	
Methylene chloride	ND	ug/L	200	40	140	
Naphthalene	ND	ug/L	200	59	210	
n-Propylbenzene	ND	ug/L	200	40	140	
ortho-Xylene	ND	ug/L	200	31	110	
Styrene	ND	ug/L	200	32	110	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	37	130	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	39	140	
Tetrachloroethene	ND	ug/L	200	33	120	
Toluene	ND	ug/L	200	38	140	
1,2,3-Trichlorobenzene	ND	ug/L	200	39	140	
1,2,4-Trichlorobenzene	ND	ug/L	200	36	130	
1,1,1-Trichloroethane	ND	ug/L	200	34	120	
1,1,2-Trichloroethane	ND	ug/L	200	34	120	
Trichloroethene	ND	ug/L	200	47	170	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 257757

Project Description: DB Oak/42-1-2-37320

Project Title: Template: SAT3W Printed: 04/08/2016 17:07

Sample: 913049 MW - 12A Collected: 03/31/16 Analyzed: 04/07/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	200	34	120	
1,2,3-Trichloropropane	ND	ug/L	200	58	210	
1,2,4-Trimethylbenzene	ND	ug/L	200	37	130	
1,3,5-Trimethylbenzene	ND	ug/L	200	40	140	
Vinyl chloride	290	ug/L	200	32	110	
meta,para-Xylene	ND	ug/L	200	64	230	
MTBE	ND	ug/L	200	43	150	
Isopropyl ether	ND	ug/L	200	37	130	
Dibromofluoromethane (SURR)	117%					S
Toluene-d8 (SURR)	109%					S
1-Bromo-4-Fluorobenzene (SURR)	112%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Page 3 of 4

Customer: Shannon & Wilson, Inc. NLS Project: 257757

Project Description: DB Oak/42-1-2-37320

Project Title: Template: SAT3W Printed: 04/08/2016 17:07

Sample: 913050 Dup #2 Collected: 03/31/16 Analyzed: 04/07/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	200	39	140	
Bromobenzene	ND	ug/L	200	49	170	
Bromochloromethane	ND	ug/L	200	30	110	
Bromodichloromethane	ND	ug/L	200	39	140	
Bromoform	ND	ug/L	200	32	110	
Bromomethane	ND	ug/L	200	45	160	
n-Butylbenzene	ND	ug/L	200	38	130	
sec-Butylbenzene	ND	ug/L	200	40	140	
tert-Butylbenzene	ND	ug/L	200	40	140	
Carbon Tetrachloride	ND	ug/L	200	37	130	
Chlorobenzene	ND	ug/L	200	32	110	
Chloroethane	ND	ug/L	200	310	1100	
Chloroform	ND	ug/L	200	34	120	
Chloromethane	ND	ug/L	200	39	140	
2-Chlorotoluene	ND	ug/L	200	42	150	
4-Chlorotoluene	ND	ug/L	200	38	140	
Dibromochloromethane	ND	ug/L	200	34	120	
1,2-Dibromo-3-Chloropropane	ND	ug/L	200	41	150	
1,2-Dibromoethane	ND	ug/L	200	24	86	
Dibromomethane	ND	ug/L	200	41	150	
1,2-Dichlorobenzene	ND	ug/L	200	43	150	
1,3-Dichlorobenzene	ND	ug/L	200	40	140	
1,4-Dichlorobenzene	ND	ug/L	200	43	150	
Dichlorodifluoromethane	ND	ug/L	200	28	98	
1,1-Dichloroethane	ND	ug/L	200	36	130	
1,2-Dichloroethane	ND	ug/L	200	39	140	
1,1-Dichloroethene	ND	ug/L	200	32	110	
cis-1,2-Dichloroethene	2100	ug/L	200	35	120	
trans-1,2-Dichloroethene	ND	ug/L	200	29	100	
1,2-Dichloropropane	ND	ug/L	200	47	170	
1,3-Dichloropropane	ND	ug/L	200	36	130	
2,2-Dichloropropane	ND	ug/L	200	23	82	
1,1-Dichloropropene	ND	ug/L	200	30	110	
cis-1,3-Dichloropropene	ND	ug/L	200	39	140	
trans-1,3-Dichloropropene	ND	ug/L	200	29	100	
Ethylbenzene	ND	ug/L	200	60	210	
Hexachlorobutadiene	ND	ug/L	200	39	140	
Isopropylbenzene	ND	ug/L	200	34	120	
p-Isopropyltoluene	ND	ug/L	200	39	140	
Methylene chloride	ND	ug/L	200	40	140	
Naphthalene	ND	ug/L	200	59	210	
n-Propylbenzene	ND	ug/L	200	40	140	
ortho-Xylene	ND	ug/L	200	31	110	
Styrene	ND	ug/L	200	32	110	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	37	130	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	39	140	
Tetrachloroethene	ND	ug/L	200	33	120	
Toluene	ND	ug/L	200	38	140	
1,2,3-Trichlorobenzene	ND	ug/L	200	39	140	
1,2,4-Trichlorobenzene	ND	ug/L	200	36	130	
1,1,1-Trichloroethane	ND	ug/L	200	34	120	
1,1,2-Trichloroethane	ND	ug/L	200	34	120	
Trichloroethene	ND	ug/L	200	47	170	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)

Customer: Shannon & Wilson, Inc. NLS Project: 257757

Project Description: DB Oak/42-1-2-37320

Project Title: Template: SAT3W Printed: 04/08/2016 17:07

Sample: 913050 Dup #2 Collected: 03/31/16 Analyzed: 04/07/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	200	34	120	
1,2,3-Trichloropropane	ND	ug/L	200	58	210	
1,2,4-Trimethylbenzene	ND	ug/L	200	37	130	
1,3,5-Trimethylbenzene	ND	ug/L	200	40	140	
Vinyl chloride	250	ug/L	200	32	110	
meta,para-Xylene	ND	ug/L	200	64	230	
MTBE	ND	ug/L	200	43	150	
Isopropyl ether	ND	ug/L	200	37	130	
Dibromofluoromethane (SURR)	115%					S
Toluene-d8 (SURR)	110%					S
1-Bromo-4-Fluorobenzene (SURR)	111%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

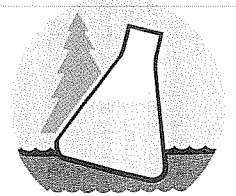
400 North Lake Avenue • Crandon, WI 54520-1298
Tel: (715) 478-2777 • Fax: (715) 478-3060

CLIENT <i>SHANNON & WILSON, INC.</i>	
ADDRESS <i>2110 LUANN LANE, SUITE 101</i>	
CITY <i>MADISON</i>	STATE <i>WI</i>
ZIP <i>53713</i>	
PROJECT DESCRIPTION / NO. <i>DB OAK / 42-1-37320</i>	QUOTATION NO.
DNR FID #	DNR LICENSE #
CONTACT <i>Mark McCulloch</i>	PHONE <i>608 / 442-5223</i>
PURCHASE ORDER NO. <i>42-1-37320</i>	FAX <i>608 / 442-9013</i>

Wisconsin DNR cert ID
721026460 (Cran) / 268533760 (Wauk)
Wisconsin DATCP ID
105-000330 (Cran) / 105-000479 (Wauk)

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
DW = drinking water
TIS = tissue
AIR = air
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

ANALYZE PER ORDER OF ANALYSIS <i>40 mg/L Nitrate</i>	USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.									
	Indicate G or C if WW Sample is Grab or Composite.									



NO. 201936

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYSIS										COLLECTION REMARKS (i.e. DNR Well ID #)			
			DATE	TIME		1	2	3	4	5	6	7	8	9	10				
1.	<i>913045</i>	<i>MW-10</i>	<i>03-31-16</i>	<i>1220</i>	<i>GW</i>	<i>2</i>	<i>2</i>												
2.	<i>046</i>	<i>MW-10A</i>	<i>03-31-16</i>	<i>1610</i>	<i>↓</i>	<i>2</i>	<i>2</i>												
3.	<i>047</i>	<i>MW-11</i>	<i>03-31-16</i>	<i>1245</i>	<i>↓</i>	<i>2</i>	<i>2</i>												
4.	<i>048</i>	<i>MW-12</i>	<i>03-31-16</i>	<i>1720</i>	<i>↓</i>	<i>2</i>	<i>2</i>												
5.	<i>049</i>	<i>MW-12A</i>	<i>03-31-16</i>	<i>1600</i>	<i>↓</i>	<i>2</i>	<i>2</i>												
6.	<i>050</i>	<i>DUP #2</i>	<i>03-31-16</i>	<i>1605</i>	<i>↓</i>	<i>2</i>	<i>2</i>												
7.																			
8.																			
9.																			
10.																			

COLLECTED BY (signature) <i>Mark McCulloch</i>	CUSTODY SEAL NO. (IF ANY)	DATE/TIME <i>03-31-16 1838</i>
RELINQUISHED BY (signature) <i>Mark McCulloch</i>	RECEIVED BY (signature)	DATE/TIME <i>03-31-14 1825</i>
DISPATCHED BY (signature)	METHOD OF TRANSPORT	DATE/TIME

REPORT TO
MARK MCCULLOCH
SHANNON & WILSON, INC.
2110 LUANN LANE, SUITE 101
MADISON, WI 53713

RECEIVED AT NLS BY (signature) <i>John Blaine</i>	DATE/TIME <i>4/1/16</i>	CONDITION <i>10 Full</i>	TEMP.
COOLER #	REMARKS & OTHER INFORMATION		
PRESERVATIVE: NP = no preservative S = sulfuric acid	N = nitric acid Z = zinc acetate M = methanol	OH = sodium hydroxide HA = hydrochloric & ascorbic acid H = hydrochloric acid	WDNR FACILITY NUMBER
		E-MAIL ADDRESS	

INVOICE TO
SAME

IMPORTANT:

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP YELLOW COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

NORTHERN LAKE SERVICE, INC.
 Analytical Laboratory and Environmental Services
 400 North Lake Avenue - Crandon, WI 54520
 Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
 WDATCP Laboratory Certification No. 105-330
 EPA Laboratory ID No. WI00034

Printed: 03/29/16 Page 1 of 1

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 257347

NLS Customer: 104721

Fax: 608 442 9013 **Phone:** 608 442 5223

Project: DB Oak / 42-1-37320-003

Outfall at SP01 NLS ID: 911704

COC: 201996:1 Matrix: SW
 Collected: 03/23/16 11:55 Received: 03/24/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					03/28/16	EPA 624	721026460

Storm Sewer North of SP01 NLS ID: 911705

COC: 201996:2 Matrix: SW
 Collected: 03/23/16 12:00 Received: 03/24/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					03/25/16	EPA 624	721026460

South of SP01 NLS ID: 911706

COC: 201996:3 Matrix: SW
 Collected: 03/23/16 11:50 Received: 03/24/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by GC/MS	see attached					03/28/16	EPA 624	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable
 DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
 R. T. Krueger
 President

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 1 of 6

Customer: Shannon & Wilson, Inc. NLS Project: 257347

Project Description: DB Oak / 42-1-37320-003

Project Title: Template: SATW Printed: 03/29/2016 17:02

Sample: 911704 Outfall at SP01 Collected: 03/23/16 Analyzed: 03/25/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	10	2.4	8.4	
Bromobenzene	ND	ug/L	10	2.3	8.2	
Bromochloromethane	ND	ug/L	10	2.5	8.8	
Bromodichloromethane	ND	ug/L	10	2.7	9.4	
Bromoform	ND	ug/L	10	2.1	7.3	
Bromomethane	ND	ug/L	10	2.7	9.6	
n-Butylbenzene	ND	ug/L	10	2.1	7.3	
sec-Butylbenzene	ND	ug/L	10	1.9	6.6	
tert-Butylbenzene	ND	ug/L	10	1.9	6.8	
Carbon Tetrachloride	ND	ug/L	10	1.6	5.5	
Chlorobenzene	ND	ug/L	10	2.5	8.7	
Chloroethane	ND	ug/L	10	9.3	33	
Chloroform	ND	ug/L	10	2.2	7.8	
Chloromethane	ND	ug/L	10	2.2	7.8	
2-Chlorotoluene	ND	ug/L	10	2.5	9.0	
4-Chlorotoluene	ND	ug/L	10	2.1	7.3	
Dibromochloromethane	ND	ug/L	10	1.6	5.6	
1,2-Dibromo-3-Chloropropane	ND	ug/L	10	1.8	6.3	
1,2-Dibromoethane	ND	ug/L	10	2.3	8.1	
Dibromomethane	ND	ug/L	10	2.2	7.8	
1,2-Dichlorobenzene	ND	ug/L	10	2.1	7.3	
1,3-Dichlorobenzene	ND	ug/L	10	2.0	7.0	
1,4-Dichlorobenzene	ND	ug/L	10	2.7	9.5	
Dichlorodifluoromethane	ND	ug/L	10	1.7	5.8	
1,1-Dichloroethane	ND	ug/L	10	1.9	6.7	
1,2-Dichloroethane	ND	ug/L	10	2.2	7.8	
1,1-Dichloroethene	ND	ug/L	10	2.0	6.9	
cis-1,2-Dichloroethene	95	ug/L	10	2.4	8.4	
trans-1,2-Dichloroethene	ND	ug/L	10	1.7	6.0	
1,2-Dichloropropane	ND	ug/L	10	2.8	9.8	
1,3-Dichloropropane	ND	ug/L	10	2.4	8.4	
2,2-Dichloropropane	ND	ug/L	10	1.8	6.4	
1,1-Dichloropropene	ND	ug/L	10	2.0	7.0	
cis-1,3-Dichloropropene	ND	ug/L	10	2.6	9.1	
trans-1,3-Dichloropropene	ND	ug/L	10	1.9	6.9	
Ethylbenzene	ND	ug/L	10	1.9	6.9	
Hexachlorobutadiene	ND	ug/L	10	3.0	11	
Isopropylbenzene	ND	ug/L	10	1.9	6.5	
p-Isopropyltoluene	ND	ug/L	10	1.8	6.2	
Methylene chloride	ND	ug/L	10	2.4	8.4	
Naphthalene	ND	ug/L	10	4.3	15	
n-Propylbenzene	ND	ug/L	10	2.1	7.4	
ortho-Xylene	ND	ug/L	10	1.9	6.6	
Styrene	ND	ug/L	10	1.9	6.6	
1,1,1,2-Tetrachloroethane	ND	ug/L	10	2.0	7.0	
1,1,2,2-Tetrachloroethane	ND	ug/L	10	2.6	9.4	
Tetrachloroethene	330	ug/L	25	5.5	20	
Toluene	ND	ug/L	10	2.1	7.4	
1,2,3-Trichlorobenzene	ND	ug/L	10	3.7	13	
1,2,4-Trichlorobenzene	ND	ug/L	10	3.0	10	
1,1,1-Trichloroethane	ND	ug/L	10	2.0	6.9	
1,1,2-Trichloroethane	ND	ug/L	10	2.0	6.9	
Trichloroethene	54	ug/L	10	3.2	11	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257347

Project Description: DB Oak / 42-1-37320-003

Project Title: Template: SATW Printed: 03/29/2016 17:02

Sample: 911704 Outfall at SP01 Collected: 03/23/16 Analyzed: 03/25/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	10	2.0	7.1	
1,2,3-Trichloropropane	ND	ug/L	10	2.5	8.7	
1,2,4-Trimethylbenzene	ND	ug/L	10	2.1	7.4	
1,3,5-Trimethylbenzene	ND	ug/L	10	2.1	7.6	
Vinyl chloride	10	ug/L	10	1.7	6.0	
meta,para-Xylene	ND	ug/L	10	3.7	13	
MTBE	ND	ug/L	10	2.1	7.3	
Isopropyl Ether	ND	ug/L	10	2.2	7.8	
Dibromofluoromethane (SURR)	121%					S
Toluene-d8 (SURR)	107%					S
1-Bromo-4-Fluorobenzene (SURR)	104%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 3 of 6

Customer: Shannon & Wilson, Inc. NLS Project: 257347

Project Description: DB Oak / 42-1-37320-003

Project Title: Template: SATW Printed: 03/29/2016 17:02

Sample: 911705 Storm Sewer North of SP01 Collected: 03/23/16 Analyzed: 03/25/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	12.5	3.0	11	
Bromobenzene	ND	ug/L	12.5	2.9	10	
Bromochloromethane	ND	ug/L	12.5	3.1	11	
Bromodichloromethane	ND	ug/L	12.5	3.3	12	
Bromoform	ND	ug/L	12.5	2.6	9.1	
Bromomethane	ND	ug/L	12.5	3.4	12	
n-Butylbenzene	ND	ug/L	12.5	2.6	9.1	
sec-Butylbenzene	ND	ug/L	12.5	2.3	8.2	
tert-Butylbenzene	ND	ug/L	12.5	2.4	8.5	
Carbon Tetrachloride	ND	ug/L	12.5	1.9	6.9	
Chlorobenzene	ND	ug/L	12.5	3.1	11	
Chloroethane	ND	ug/L	12.5	12	41	
Chloroform	ND	ug/L	12.5	2.8	9.8	
Chloromethane	ND	ug/L	12.5	2.8	9.7	
2-Chlorotoluene	ND	ug/L	12.5	3.2	11	
4-Chlorotoluene	ND	ug/L	12.5	2.6	9.1	
Dibromochloromethane	ND	ug/L	12.5	2.0	7.0	
1,2-Dibromo-3-Chloropropane	ND	ug/L	12.5	2.2	7.8	
1,2-Dibromoethane	ND	ug/L	12.5	2.9	10	
Dibromomethane	ND	ug/L	12.5	2.8	9.8	
1,2-Dichlorobenzene	ND	ug/L	12.5	2.6	9.1	
1,3-Dichlorobenzene	ND	ug/L	12.5	2.5	8.7	
1,4-Dichlorobenzene	ND	ug/L	12.5	3.4	12	
Dichlorodifluoromethane	ND	ug/L	12.5	2.1	7.3	
1,1-Dichloroethane	ND	ug/L	12.5	2.4	8.3	
1,2-Dichloroethane	ND	ug/L	12.5	2.7	9.7	
1,1-Dichloroethene	ND	ug/L	12.5	2.4	8.6	
cis-1,2-Dichloroethene	54	ug/L	12.5	3.0	10	
trans-1,2-Dichloroethene	ND	ug/L	12.5	2.1	7.5	
1,2-Dichloropropane	ND	ug/L	12.5	3.5	12	
1,3-Dichloropropane	ND	ug/L	12.5	3.0	11	
2,2-Dichloropropane	ND	ug/L	12.5	2.3	8.0	
1,1-Dichloropropene	ND	ug/L	12.5	2.5	8.7	
cis-1,3-Dichloropropene	ND	ug/L	12.5	3.2	11	
trans-1,3-Dichloropropene	ND	ug/L	12.5	2.4	8.6	
Ethylbenzene	ND	ug/L	12.5	2.4	8.6	
Hexachlorobutadiene	ND	ug/L	12.5	3.8	13	
Isopropylbenzene	ND	ug/L	12.5	2.3	8.2	
p-Isopropyltoluene	ND	ug/L	12.5	2.2	7.8	
Methylene chloride	ND	ug/L	12.5	3.0	10	
Naphthalene	ND	ug/L	12.5	5.4	19	
n-Propylbenzene	ND	ug/L	12.5	2.6	9.3	
ortho-Xylene	ND	ug/L	12.5	2.3	8.2	
Styrene	ND	ug/L	12.5	2.3	8.2	
1,1,1,2-Tetrachloroethane	ND	ug/L	12.5	2.5	8.8	
1,1,2,2-Tetrachloroethane	ND	ug/L	12.5	3.3	12	
Tetrachloroethene	110	ug/L	12.5	2.8	9.8	
Toluene	ND	ug/L	12.5	2.6	9.2	
1,2,3-Trichlorobenzene	ND	ug/L	12.5	4.7	17	
1,2,4-Trichlorobenzene	ND	ug/L	12.5	3.7	13	
1,1,1-Trichloroethane	ND	ug/L	12.5	2.4	8.7	
1,1,2-Trichloroethane	ND	ug/L	12.5	2.4	8.6	
Trichloroethene	24	ug/L	12.5	4.0	14	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257347

Project Description: DB Oak / 42-1-37320-003

Project Title: Template: SATW Printed: 03/29/2016 17:02

Sample: 911705 Storm Sewer North of SP01 Collected: 03/23/16 Analyzed: 03/25/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	12.5	2.5	8.8	
1,2,3-Trichloropropane	ND	ug/L	12.5	3.1	11	
1,2,4-Trimethylbenzene	ND	ug/L	12.5	2.6	9.2	
1,3,5-Trimethylbenzene	ND	ug/L	12.5	2.7	9.5	
Vinyl chloride	[5.8]	ug/L	12.5	2.1	7.5	
meta,para-Xylene	ND	ug/L	12.5	4.6	16	
MTBE	ND	ug/L	12.5	2.6	9.1	
Isopropyl Ether	ND	ug/L	12.5	2.8	9.8	
Dibromofluoromethane (SURR)	126%					S
Toluene-d8 (SURR)	113%					S
1-Bromo-4-Fluorobenzene (SURR)	102%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Page 5 of 6

Customer: Shannon & Wilson, Inc. NLS Project: 257347

Project Description: DB Oak / 42-1-37320-003

Project Title: Template: SATW Printed: 03/29/2016 17:02

Sample: 911706 South of SP01 Collected: 03/23/16 Analyzed: 03/25/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	10	2.4	8.4	
Bromobenzene	ND	ug/L	10	2.3	8.2	
Bromochloromethane	ND	ug/L	10	2.5	8.8	
Bromodichloromethane	ND	ug/L	10	2.7	9.4	
Bromoform	ND	ug/L	10	2.1	7.3	
Bromomethane	ND	ug/L	10	2.7	9.6	
n-Butylbenzene	ND	ug/L	10	2.1	7.3	
sec-Butylbenzene	ND	ug/L	10	1.9	6.6	
tert-Butylbenzene	ND	ug/L	10	1.9	6.8	
Carbon Tetrachloride	ND	ug/L	10	1.6	5.5	
Chlorobenzene	ND	ug/L	10	2.5	8.7	
Chloroethane	ND	ug/L	10	9.3	33	
Chloroform	ND	ug/L	10	2.2	7.8	
Chloromethane	ND	ug/L	10	2.2	7.8	
2-Chlorotoluene	ND	ug/L	10	2.5	9.0	
4-Chlorotoluene	ND	ug/L	10	2.1	7.3	
Dibromochloromethane	ND	ug/L	10	1.6	5.6	
1,2-Dibromo-3-Chloropropane	ND	ug/L	10	1.8	6.3	
1,2-Dibromoethane	ND	ug/L	10	2.3	8.1	
Dibromomethane	ND	ug/L	10	2.2	7.8	
1,2-Dichlorobenzene	ND	ug/L	10	2.1	7.3	
1,3-Dichlorobenzene	ND	ug/L	10	2.0	7.0	
1,4-Dichlorobenzene	ND	ug/L	10	2.7	9.5	
Dichlorodifluoromethane	ND	ug/L	10	1.7	5.8	
1,1-Dichloroethane	ND	ug/L	10	1.9	6.7	
1,2-Dichloroethane	ND	ug/L	10	2.2	7.8	
1,1-Dichloroethene	ND	ug/L	10	2.0	6.9	
cis-1,2-Dichloroethene	100	ug/L	10	2.4	8.4	
trans-1,2-Dichloroethene	ND	ug/L	10	1.7	6.0	
1,2-Dichloropropane	ND	ug/L	10	2.8	9.8	
1,3-Dichloropropane	ND	ug/L	10	2.4	8.4	
2,2-Dichloropropane	ND	ug/L	10	1.8	6.4	
1,1-Dichloropropene	ND	ug/L	10	2.0	7.0	
cis-1,3-Dichloropropene	ND	ug/L	10	2.6	9.1	
trans-1,3-Dichloropropene	ND	ug/L	10	1.9	6.9	
Ethylbenzene	ND	ug/L	10	1.9	6.9	
Hexachlorobutadiene	ND	ug/L	10	3.0	11	
Isopropylbenzene	ND	ug/L	10	1.9	6.5	
p-Isopropyltoluene	ND	ug/L	10	1.8	6.2	
Methylene chloride	ND	ug/L	10	2.4	8.4	
Naphthalene	ND	ug/L	10	4.3	15	
n-Propylbenzene	ND	ug/L	10	2.1	7.4	
ortho-Xylene	ND	ug/L	10	1.9	6.6	
Styrene	ND	ug/L	10	1.9	6.6	
1,1,1,2-Tetrachloroethane	ND	ug/L	10	2.0	7.0	
1,1,2,2-Tetrachloroethane	ND	ug/L	10	2.6	9.4	
Tetrachloroethene	180	ug/L	10	2.2	7.8	
Toluene	ND	ug/L	10	2.1	7.4	
1,2,3-Trichlorobenzene	ND	ug/L	10	3.7	13	
1,2,4-Trichlorobenzene	ND	ug/L	10	3.0	10	
1,1,1-Trichloroethane	ND	ug/L	10	2.0	6.9	
1,1,2-Trichloroethane	ND	ug/L	10	2.0	6.9	
Trichloroethene	53	ug/L	10	3.2	11	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257347

Project Description: DB Oak / 42-1-37320-003

Project Title: Template: SATW Printed: 03/29/2016 17:02

Sample: 911706 South of SP01 Collected: 03/23/16 Analyzed: 03/25/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	10	2.0	7.1	
1,2,3-Trichloropropane	ND	ug/L	10	2.5	8.7	
1,2,4-Trimethylbenzene	ND	ug/L	10	2.1	7.4	
1,3,5-Trimethylbenzene	ND	ug/L	10	2.1	7.6	
Vinyl chloride	7.7	ug/L	10	1.7	6.0	
meta,para-Xylene	ND	ug/L	10	3.7	13	
MTBE	ND	ug/L	10	2.1	7.3	
Isopropyl Ether	ND	ug/L	10	2.2	7.8	
Dibromofluoromethane (SURR)	119%					S
Toluene-d8 (SURR)	101%					S
1-Bromo-4-Fluorobenzene (SURR)	101%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL REPORT

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 257346

NLS Customer: 104721

Fax: 608 442 9013 **Phone:** 608 442 5223

Project: DB Oak/ 42-1-37320-003

SED-2 0.5-2.0' NLS ID: 911698

COC: 177228:1 Matrix: SO

Collected: 03/23/16 09:05 Received: 03/24/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	61.7	%	1	0.10*		03/24/16	SM 2540-G 20ed	721026460
VOCs (soil) by EPA Method 8260C	see attached					04/04/16	SW846 8260C	721026460

SED-3 0.5-2.0' NLS ID: 911699

COC: 177228:2 Matrix: SO

Collected: 03/23/16 08:45 Received: 03/24/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	61.6	%	1	0.10*		03/24/16	SM 2540-G 20ed	721026460
VOCs (soil) by EPA Method 8260C	see attached					04/04/16	SW846 8260C	721026460

SED-3 2.0-4.0' NLS ID: 911700

COC: 177228:3 Matrix: SO

Collected: 03/23/16 10:15 Received: 03/24/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	88.3	%	1	0.10*		03/24/16	SM 2540-G 20ed	721026460
VOCs (soil) by EPA Method 8260C	see attached					04/04/16	SW846 8260C	721026460

SED-4 0.5-2.0' NLS ID: 911701

COC: 177228:4 Matrix: SO

Collected: 03/23/16 08:30 Received: 03/24/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	76.3	%	1	0.10*		03/24/16	SM 2540-G 20ed	721026460
VOCs (soil) by EPA Method 8260C	see attached					04/05/16	SW846 8260C	721026460

SED-4 2.0-4.0' NLS ID: 911702

COC: 177228:5 Matrix: SO

Collected: 03/23/16 09:45 Received: 03/24/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	86.3	%	1	0.10*		03/24/16	SM 2540-G 20ed	721026460
VOCs (soil) by EPA Method 8260C	see attached					04/04/16	SW846 8260C	721026460

Blank NLS ID: 911703

COC: 177228:6 Matrix: TB

Collected: 03/23/16 00:00 Received: 03/24/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (soil) by EPA Method 8260C	see attached					04/04/16	NA	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable

DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L

MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
 R. T. Krueger
 President

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Page 1 of 12

Customer: Shannon & Wilson, Inc. NLS Project: 257346

Project Description: DB Oak/ 42-1-37320-003

Project Title: Template: SATS Printed: 04/06/2016 17:07

Sample: 911698 SED-2 0.5-2.0' Collected: 03/23/16 Analyzed: 04/04/16 - 61.7%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Benzene	ND	ug/kg	10	220	790	
Bromobenzene	ND	ug/kg	10	220	800	
Bromochloromethane	ND	ug/kg	10	200	720	
Bromodichloromethane	ND	ug/kg	10	160	580	
Bromoform	ND	ug/kg	10	200	700	
Bromomethane	ND	ug/kg	10	69	250	
n-Butylbenzene	ND	ug/kg	10	210	730	
sec-Butylbenzene	ND	ug/kg	10	190	680	
tert-Butylbenzene	ND	ug/kg	10	210	750	
Carbon Tetrachloride	ND	ug/kg	10	220	780	
Chlorobenzene	1500	ug/kg	10	220	790	
Chloroethane	ND	ug/kg	10	1700	6100	
Chloroform	ND	ug/kg	10	180	640	
Chloromethane	ND	ug/kg	10	180	640	
2-Chlorotoluene	ND	ug/kg	10	220	770	
4-Chlorotoluene	ND	ug/kg	10	210	750	
Dibromochloromethane	ND	ug/kg	10	200	700	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	10	250	890	
1,2-Dibromoethane	ND	ug/kg	10	230	820	
Dibromomethane	ND	ug/kg	10	190	680	
1,2-Dichlorobenzene	2500	ug/kg	10	190	690	
1,3-Dichlorobenzene	ND	ug/kg	10	170	610	
1,4-Dichlorobenzene	ND	ug/kg	10	210	740	
Dichlorodifluoromethane	ND	ug/kg	10	260	910	
1,1-Dichloroethane	ND	ug/kg	10	210	750	
1,2-Dichloroethane	ND	ug/kg	10	250	880	
1,1-Dichloroethene	ND	ug/kg	10	210	750	
cis-1,2-Dichloroethene	8300	ug/kg	10	200	720	
trans-1,2-Dichloroethene	ND	ug/kg	10	190	680	
1,2-Dichloropropane	ND	ug/kg	10	190	670	
1,3-Dichloropropane	ND	ug/kg	10	200	700	
2,2-Dichloropropane	ND	ug/kg	10	160	580	
1,1-Dichloropropene	ND	ug/kg	10	180	650	
cis-1,3-Dichloropropene	ND	ug/kg	10	180	650	
trans-1,3-Dichloropropene	ND	ug/kg	10	190	670	
Ethylbenzene	1100	ug/kg	10	270	960	
Hexachlorobutadiene	ND	ug/kg	10	290	1000	
Isopropylbenzene	ND	ug/kg	10	200	700	
p-Isopropyltoluene	ND	ug/kg	10	180	650	
Methylene chloride	ND	ug/kg	10	190	660	
Naphthalene	ND	ug/kg	10	370	1300	
n-Propylbenzene	ND	ug/kg	10	200	690	
ortho-Xylene	1300	ug/kg	10	190	660	
Styrene	ND	ug/kg	10	160	560	
1,1,1,2-Tetrachloroethane	ND	ug/kg	10	210	730	
1,1,2,2-Tetrachloroethane	ND	ug/kg	10	240	840	
Tetrachloroethene	28000	ug/kg	10	200	720	
Toluene	1000	ug/kg	10	190	660	
1,2,3-Trichlorobenzene	ND	ug/kg	10	250	890	
1,2,4-Trichlorobenzene	ND	ug/kg	10	310	1100	
1,1,1-Trichloroethane	ND	ug/kg	10	220	770	
1,1,2-Trichloroethane	ND	ug/kg	10	220	790	
Trichloroethene	2600	ug/kg	10	290	1000	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257346

Project Description: DB Oak/ 42-1-37320-003

Project Title: Template: SATS Printed: 04/06/2016 17:07

Sample: 911698 SED-2 0.5-2.0' Collected: 03/23/16 Analyzed: 04/04/16 - 61.7%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/kg	10	160	570	
1,2,3-Trichloropropane	ND	ug/kg	10	290	1000	
1,2,4-Trimethylbenzene	[610]	ug/kg	10	230	830	
1,3,5-Trimethylbenzene	ND	ug/kg	10	220	760	
Vinyl chloride	[410]	ug/kg	10	170	610	
meta,para-Xylene	2900	ug/kg	10	390	1400	
MTBE	ND	ug/kg	10	200	700	
Isopropyl Ether	ND	ug/kg	10	220	760	
Dibromofluoromethane (SURR)	101%					S
Toluene-d8 (SURR)	93%					S
1-Bromo-4-Fluorobenzene (SURR)	116%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Page 3 of 12

Customer: Shannon & Wilson, Inc. NLS Project: 257346

Project Description: DB Oak/ 42-1-37320-003

Project Title: Template: SATS Printed: 04/06/2016 17:07

Sample: 911699 SED-3 0.5-2.0' Collected: 03/23/16 Analyzed: 04/04/16 - 61.6%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Benzene	ND	ug/kg	2	45	160	
Bromobenzene	ND	ug/kg	2	45	160	
Bromochloromethane	ND	ug/kg	2	40	140	
Bromodichloromethane	ND	ug/kg	2	32	120	
Bromoform	ND	ug/kg	2	39	140	
Bromomethane	ND	ug/kg	2	14	49	
n-Butylbenzene	ND	ug/kg	2	41	150	
sec-Butylbenzene	ND	ug/kg	2	38	140	
tert-Butylbenzene	ND	ug/kg	2	43	150	
Carbon Tetrachloride	ND	ug/kg	2	44	160	
Chlorobenzene	220	ug/kg	2	45	160	
Chloroethane	ND	ug/kg	2	350	1200	
Chloroform	ND	ug/kg	2	36	130	
Chloromethane	ND	ug/kg	2	36	130	
2-Chlorotoluene	ND	ug/kg	2	44	150	
4-Chlorotoluene	ND	ug/kg	2	42	150	
Dibromochloromethane	ND	ug/kg	2	40	140	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	2	50	180	
1,2-Dibromoethane	ND	ug/kg	2	46	160	
Dibromomethane	ND	ug/kg	2	39	140	
1,2-Dichlorobenzene	700	ug/kg	2	39	140	
1,3-Dichlorobenzene	ND	ug/kg	2	34	120	
1,4-Dichlorobenzene	[98]	ug/kg	2	42	150	
Dichlorodifluoromethane	ND	ug/kg	2	51	180	
1,1-Dichloroethane	ND	ug/kg	2	42	150	
1,2-Dichloroethane	ND	ug/kg	2	50	180	
1,1-Dichloroethene	ND	ug/kg	2	42	150	
cis-1,2-Dichloroethene	540	ug/kg	2	40	140	
trans-1,2-Dichloroethene	ND	ug/kg	2	38	140	
1,2-Dichloropropane	ND	ug/kg	2	38	130	
1,3-Dichloropropane	ND	ug/kg	2	39	140	
2,2-Dichloropropane	ND	ug/kg	2	33	120	
1,1-Dichloropropene	ND	ug/kg	2	37	130	
cis-1,3-Dichloropropene	ND	ug/kg	2	37	130	
trans-1,3-Dichloropropene	ND	ug/kg	2	38	130	
Ethylbenzene	200	ug/kg	2	54	190	
Hexachlorobutadiene	ND	ug/kg	2	57	200	
Isopropylbenzene	[76]	ug/kg	2	39	140	
p-Isopropyltoluene	[76]	ug/kg	2	37	130	
Methylene chloride	ND	ug/kg	2	37	130	
Naphthalene	ND	ug/kg	2	75	270	
n-Propylbenzene	ND	ug/kg	2	39	140	
ortho-Xylene	230	ug/kg	2	37	130	
Styrene	ND	ug/kg	2	31	110	
1,1,1,2-Tetrachloroethane	ND	ug/kg	2	41	150	
1,1,2,2-Tetrachloroethane	ND	ug/kg	2	48	170	
Tetrachloroethene	5700	ug/kg	2	41	140	
Toluene	ND	ug/kg	2	37	130	
1,2,3-Trichlorobenzene	ND	ug/kg	2	50	180	
1,2,4-Trichlorobenzene	ND	ug/kg	2	62	220	
1,1,1-Trichloroethane	ND	ug/kg	2	44	150	
1,1,2-Trichloroethane	ND	ug/kg	2	44	160	
Trichloroethene	570	ug/kg	2	58	200	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257346

Project Description: DB Oak/ 42-1-37320-003

Project Title: Template: SATS Printed: 04/06/2016 17:07

Sample: 911699 SED-3 0.5-2.0' Collected: 03/23/16 Analyzed: 04/04/16 - 61.6%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/kg	2	32	110	
1,2,3-Trichloropropane	ND	ug/kg	2	59	210	
1,2,4-Trimethylbenzene	190	ug/kg	2	47	170	
1,3,5-Trimethylbenzene	ND	ug/kg	2	43	150	
Vinyl chloride	ND	ug/kg	2	34	120	
meta,para-Xylene	580	ug/kg	2	79	280	
MTBE	ND	ug/kg	2	39	140	
Isopropyl Ether	ND	ug/kg	2	43	150	
Dibromofluoromethane (SURR)	98%					S
Toluene-d8 (SURR)	103%					S
1-Bromo-4-Fluorobenzene (SURR)	115%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Page 5 of 12

Customer: Shannon & Wilson, Inc. NLS Project: 257346

Project Description: DB Oak/ 42-1-37320-003

Project Title: Template: SATS Printed: 04/06/2016 17:07

Sample: 911700 SED-3 2.0-4.0' Collected: 03/23/16 Analyzed: 04/04/16 - 88.3%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Benzene	ND	ug/kg	1	22	79	
Bromobenzene	ND	ug/kg	1	22	80	
Bromochloromethane	ND	ug/kg	1	20	72	
Bromodichloromethane	ND	ug/kg	1	16	58	
Bromoform	ND	ug/kg	1	20	70	
Bromomethane	ND	ug/kg	1	6.9	25	
n-Butylbenzene	ND	ug/kg	1	21	73	
sec-Butylbenzene	ND	ug/kg	1	19	68	
tert-Butylbenzene	ND	ug/kg	1	21	75	
Carbon Tetrachloride	ND	ug/kg	1	22	78	
Chlorobenzene	ND	ug/kg	1	22	79	
Chloroethane	ND	ug/kg	1	170	610	
Chloroform	ND	ug/kg	1	18	64	
Chloromethane	ND	ug/kg	1	18	64	
2-Chlorotoluene	ND	ug/kg	1	22	77	
4-Chlorotoluene	ND	ug/kg	1	21	75	
Dibromochloromethane	ND	ug/kg	1	20	70	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	25	89	
1,2-Dibromoethane	ND	ug/kg	1	23	82	
Dibromomethane	ND	ug/kg	1	19	68	
1,2-Dichlorobenzene	ND	ug/kg	1	19	69	
1,3-Dichlorobenzene	ND	ug/kg	1	17	61	
1,4-Dichlorobenzene	ND	ug/kg	1	21	74	
Dichlorodifluoromethane	ND	ug/kg	1	26	91	
1,1-Dichloroethane	ND	ug/kg	1	21	75	
1,2-Dichloroethane	ND	ug/kg	1	25	88	
1,1-Dichloroethene	ND	ug/kg	1	21	75	
cis-1,2-Dichloroethene	ND	ug/kg	1	20	72	
trans-1,2-Dichloroethene	ND	ug/kg	1	19	68	
1,2-Dichloropropane	ND	ug/kg	1	19	67	
1,3-Dichloropropane	ND	ug/kg	1	20	70	
2,2-Dichloropropane	ND	ug/kg	1	16	58	
1,1-Dichloropropene	ND	ug/kg	1	18	65	
cis-1,3-Dichloropropene	ND	ug/kg	1	18	65	
trans-1,3-Dichloropropene	ND	ug/kg	1	19	67	
Ethylbenzene	ND	ug/kg	1	27	96	
Hexachlorobutadiene	ND	ug/kg	1	29	100	
Isopropylbenzene	ND	ug/kg	1	20	70	
p-Isopropyltoluene	ND	ug/kg	1	18	65	
Methylene chloride	ND	ug/kg	1	19	66	
Naphthalene	ND	ug/kg	1	37	130	
n-Propylbenzene	ND	ug/kg	1	20	69	
ortho-Xylene	ND	ug/kg	1	19	66	
Styrene	ND	ug/kg	1	16	56	
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	21	73	
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	24	84	
Tetrachloroethene	[50]	ug/kg	1	20	72	
Toluene	ND	ug/kg	1	19	66	
1,2,3-Trichlorobenzene	ND	ug/kg	1	25	89	
1,2,4-Trichlorobenzene	ND	ug/kg	1	31	110	
1,1,1-Trichloroethane	ND	ug/kg	1	22	77	
1,1,2-Trichloroethane	150	ug/kg	1	22	79	
Trichloroethene	ND	ug/kg	1	29	100	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257346

Project Description: DB Oak/ 42-1-37320-003

Project Title: Template: SATS Printed: 04/06/2016 17:07

Sample: 911700 SED-3 2.0-4.0' Collected: 03/23/16 Analyzed: 04/04/16 - 88.3%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/kg	1	16	57	
1,2,3-Trichloropropane	ND	ug/kg	1	29	100	
1,2,4-Trimethylbenzene	ND	ug/kg	1	23	83	
1,3,5-Trimethylbenzene	ND	ug/kg	1	22	76	
Vinyl chloride	ND	ug/kg	1	17	61	
meta,para-Xylene	ND	ug/kg	1	39	140	
MTBE	ND	ug/kg	1	20	70	
Isopropyl Ether	ND	ug/kg	1	22	76	
Dibromofluoromethane (SURR)	97%					S
Toluene-d8 (SURR)	91%					S
1-Bromo-4-Fluorobenzene (SURR)	114%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Page 7 of 12

Customer: Shannon & Wilson, Inc. NLS Project: 257346

Project Description: DB Oak/ 42-1-37320-003

Project Title: Template: SATS Printed: 04/06/2016 17:07

Sample: 911701 SED-4 0.5-2.0' Collected: 03/23/16 Analyzed: 04/04/16 - 76.3%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Benzene	ND	ug/kg	5	110	400	
Bromobenzene	ND	ug/kg	5	110	400	
Bromochloromethane	ND	ug/kg	5	100	360	
Bromodichloromethane	ND	ug/kg	5	81	290	
Bromoform	ND	ug/kg	5	99	350	
Bromomethane	ND	ug/kg	5	35	120	
n-Butylbenzene	ND	ug/kg	5	100	370	
sec-Butylbenzene	ND	ug/kg	5	96	340	
tert-Butylbenzene	ND	ug/kg	5	110	380	
Carbon Tetrachloride	ND	ug/kg	5	110	390	
Chlorobenzene	ND	ug/kg	5	110	400	
Chloroethane	ND	ug/kg	5	860	3100	
Chloroform	ND	ug/kg	5	91	320	
Chloromethane	ND	ug/kg	5	90	320	
2-Chlorotoluene	ND	ug/kg	5	110	390	
4-Chlorotoluene	ND	ug/kg	5	110	370	
Dibromochloromethane	ND	ug/kg	5	99	350	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	5	130	450	
1,2-Dibromoethane	ND	ug/kg	5	120	410	
Dibromomethane	ND	ug/kg	5	97	340	
1,2-Dichlorobenzene	ND	ug/kg	5	97	340	
1,3-Dichlorobenzene	ND	ug/kg	5	86	300	
1,4-Dichlorobenzene	ND	ug/kg	5	100	370	
Dichlorodifluoromethane	ND	ug/kg	5	130	460	
1,1-Dichloroethane	ND	ug/kg	5	110	370	
1,2-Dichloroethane	ND	ug/kg	5	120	440	
1,1-Dichloroethene	ND	ug/kg	5	110	380	
cis-1,2-Dichloroethene	1500	ug/kg	5	100	360	
trans-1,2-Dichloroethene	ND	ug/kg	5	96	340	
1,2-Dichloropropane	ND	ug/kg	5	95	340	
1,3-Dichloropropane	ND	ug/kg	5	98	350	
2,2-Dichloropropane	ND	ug/kg	5	82	290	
1,1-Dichloropropene	ND	ug/kg	5	92	330	
cis-1,3-Dichloropropene	ND	ug/kg	5	92	330	
trans-1,3-Dichloropropene	ND	ug/kg	5	95	340	
Ethylbenzene	ND	ug/kg	5	140	480	
Hexachlorobutadiene	ND	ug/kg	5	140	510	
Isopropylbenzene	ND	ug/kg	5	99	350	
p-Isopropyltoluene	ND	ug/kg	5	92	330	
Methylene chloride	ND	ug/kg	5	93	330	
Naphthalene	ND	ug/kg	5	190	660	
n-Propylbenzene	ND	ug/kg	5	98	350	
ortho-Xylene	ND	ug/kg	5	93	330	
Styrene	ND	ug/kg	5	79	280	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5	100	360	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5	120	420	
Tetrachloroethene	27000	ug/kg	20	410	1400	
Toluene	ND	ug/kg	5	94	330	
1,2,3-Trichlorobenzene	ND	ug/kg	5	130	450	
1,2,4-Trichlorobenzene	ND	ug/kg	5	160	550	
1,1,1-Trichloroethane	ND	ug/kg	5	110	390	
1,1,2-Trichloroethane	ND	ug/kg	5	110	390	
Trichloroethene	4400	ug/kg	5	140	510	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257346

Project Description: DB Oak/ 42-1-37320-003

Project Title: Template: SATS Printed: 04/06/2016 17:07

Sample: 911701 SED-4 0.5-2.0' Collected: 03/23/16 Analyzed: 04/04/16 - 76.3%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/kg	5	80	280	
1,2,3-Trichloropropane	ND	ug/kg	5	150	520	
1,2,4-Trimethylbenzene	ND	ug/kg	5	120	420	
1,3,5-Trimethylbenzene	ND	ug/kg	5	110	380	
Vinyl chloride	ND	ug/kg	5	86	300	
meta,para-Xylene	ND	ug/kg	5	200	700	
MTBE	ND	ug/kg	5	98	350	
Isopropyl Ether	ND	ug/kg	5	110	380	
Dibromofluoromethane (SURR)	98%					S
Toluene-d8 (SURR)	94%					S
1-Bromo-4-Fluorobenzene (SURR)	106%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Page 9 of 12

Customer: Shannon & Wilson, Inc. NLS Project: 257346

Project Description: DB Oak/ 42-1-37320-003

Project Title: Template: SATS Printed: 04/06/2016 17:07

Sample: 911702 SED-4 2.0-4.0' Collected: 03/23/16 Analyzed: 04/04/16 - 86.3%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Benzene	ND	ug/kg	1	22	79	
Bromobenzene	ND	ug/kg	1	22	80	
Bromochloromethane	ND	ug/kg	1	20	72	
Bromodichloromethane	ND	ug/kg	1	16	58	
Bromoform	ND	ug/kg	1	20	70	
Bromomethane	ND	ug/kg	1	6.9	25	
n-Butylbenzene	ND	ug/kg	1	21	73	
sec-Butylbenzene	ND	ug/kg	1	19	68	
tert-Butylbenzene	ND	ug/kg	1	21	75	
Carbon Tetrachloride	ND	ug/kg	1	22	78	
Chlorobenzene	ND	ug/kg	1	22	79	
Chloroethane	ND	ug/kg	1	170	610	
Chloroform	ND	ug/kg	1	18	64	
Chloromethane	ND	ug/kg	1	18	64	
2-Chlorotoluene	ND	ug/kg	1	22	77	
4-Chlorotoluene	ND	ug/kg	1	21	75	
Dibromochloromethane	ND	ug/kg	1	20	70	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	25	89	
1,2-Dibromoethane	ND	ug/kg	1	23	82	
Dibromomethane	ND	ug/kg	1	19	68	
1,2-Dichlorobenzene	ND	ug/kg	1	19	69	
1,3-Dichlorobenzene	ND	ug/kg	1	17	61	
1,4-Dichlorobenzene	ND	ug/kg	1	21	74	
Dichlorodifluoromethane	ND	ug/kg	1	26	91	
1,1-Dichloroethane	ND	ug/kg	1	21	75	
1,2-Dichloroethane	ND	ug/kg	1	25	88	
1,1-Dichloroethene	ND	ug/kg	1	21	75	
cis-1,2-Dichloroethene	[35]	ug/kg	1	20	72	
trans-1,2-Dichloroethene	ND	ug/kg	1	19	68	
1,2-Dichloropropane	ND	ug/kg	1	19	67	
1,3-Dichloropropane	ND	ug/kg	1	20	70	
2,2-Dichloropropane	ND	ug/kg	1	16	58	
1,1-Dichloropropene	ND	ug/kg	1	18	65	
cis-1,3-Dichloropropene	ND	ug/kg	1	18	65	
trans-1,3-Dichloropropene	ND	ug/kg	1	19	67	
Ethylbenzene	ND	ug/kg	1	27	96	
Hexachlorobutadiene	ND	ug/kg	1	29	100	
Isopropylbenzene	ND	ug/kg	1	20	70	
p-Isopropyltoluene	ND	ug/kg	1	18	65	
Methylene chloride	ND	ug/kg	1	19	66	
Naphthalene	ND	ug/kg	1	37	130	
n-Propylbenzene	ND	ug/kg	1	20	69	
ortho-Xylene	ND	ug/kg	1	19	66	
Styrene	ND	ug/kg	1	16	56	
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	21	73	
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	24	84	
Tetrachloroethene	460	ug/kg	1	20	72	
Toluene	ND	ug/kg	1	19	66	
1,2,3-Trichlorobenzene	ND	ug/kg	1	25	89	
1,2,4-Trichlorobenzene	ND	ug/kg	1	31	110	
1,1,1-Trichloroethane	ND	ug/kg	1	22	77	
1,1,2-Trichloroethane	ND	ug/kg	1	22	79	
Trichloroethene	ND	ug/kg	1	29	100	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257346

Project Description: DB Oak/ 42-1-37320-003

Project Title: Template: SATS Printed: 04/06/2016 17:07

Sample: 911702 SED-4 2.0-4.0' Collected: 03/23/16 Analyzed: 04/04/16 - 86.3%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/kg	1	16	57	
1,2,3-Trichloropropane	ND	ug/kg	1	29	100	
1,2,4-Trimethylbenzene	ND	ug/kg	1	23	83	
1,3,5-Trimethylbenzene	ND	ug/kg	1	22	76	
Vinyl chloride	ND	ug/kg	1	17	61	
meta,para-Xylene	ND	ug/kg	1	39	140	
MTBE	ND	ug/kg	1	20	70	
Isopropyl Ether	ND	ug/kg	1	22	76	
Dibromofluoromethane (SURR)	94%					S
Toluene-d8 (SURR)	98%					S
1-Bromo-4-Fluorobenzene (SURR)	104%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Page 11 of 12

Customer: Shannon & Wilson, Inc. NLS Project: 257346

Project Description: DB Oak/ 42-1-37320-003

Project Title: Template: SATS Printed: 04/06/2016 17:07

Sample: 911703 Blank Collected: 03/23/16 Analyzed: 04/04/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	Note
Benzene	ND	ug/kg	1	22	79	
Bromobenzene	ND	ug/kg	1	22	80	
Bromochloromethane	ND	ug/kg	1	20	72	
Bromodichloromethane	ND	ug/kg	1	16	58	
Bromoform	ND	ug/kg	1	20	70	
Bromomethane	ND	ug/kg	1	6.9	25	
n-Butylbenzene	ND	ug/kg	1	21	73	
sec-Butylbenzene	ND	ug/kg	1	19	68	
tert-Butylbenzene	ND	ug/kg	1	21	75	
Carbon Tetrachloride	ND	ug/kg	1	22	78	
Chlorobenzene	ND	ug/kg	1	22	79	
Chloroethane	ND	ug/kg	1	170	610	
Chloroform	ND	ug/kg	1	18	64	
Chloromethane	ND	ug/kg	1	18	64	
2-Chlorotoluene	ND	ug/kg	1	22	77	
4-Chlorotoluene	ND	ug/kg	1	21	75	
Dibromochloromethane	ND	ug/kg	1	20	70	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	25	89	
1,2-Dibromoethane	ND	ug/kg	1	23	82	
Dibromomethane	ND	ug/kg	1	19	68	
1,2-Dichlorobenzene	ND	ug/kg	1	19	69	
1,3-Dichlorobenzene	ND	ug/kg	1	17	61	
1,4-Dichlorobenzene	ND	ug/kg	1	21	74	
Dichlorodifluoromethane	ND	ug/kg	1	26	91	
1,1-Dichloroethane	ND	ug/kg	1	21	75	
1,2-Dichloroethane	ND	ug/kg	1	25	88	
1,1-Dichloroethene	ND	ug/kg	1	21	75	
cis-1,2-Dichloroethene	ND	ug/kg	1	20	72	
trans-1,2-Dichloroethene	ND	ug/kg	1	19	68	
1,2-Dichloropropane	ND	ug/kg	1	19	67	
1,3-Dichloropropane	ND	ug/kg	1	20	70	
2,2-Dichloropropane	ND	ug/kg	1	16	58	
1,1-Dichloropropene	ND	ug/kg	1	18	65	
cis-1,3-Dichloropropene	ND	ug/kg	1	18	65	
trans-1,3-Dichloropropene	ND	ug/kg	1	19	67	
Ethylbenzene	ND	ug/kg	1	27	96	
Hexachlorobutadiene	ND	ug/kg	1	29	100	
Isopropylbenzene	ND	ug/kg	1	20	70	
p-Isopropyltoluene	ND	ug/kg	1	18	65	
Methylene chloride	ND	ug/kg	1	19	66	
Naphthalene	ND	ug/kg	1	37	130	
n-Propylbenzene	ND	ug/kg	1	20	69	
ortho-Xylene	ND	ug/kg	1	19	66	
Styrene	ND	ug/kg	1	16	56	
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	21	73	
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	24	84	
Tetrachloroethene	ND	ug/kg	1	20	72	
Toluene	ND	ug/kg	1	19	66	
1,2,3-Trichlorobenzene	ND	ug/kg	1	25	89	
1,2,4-Trichlorobenzene	ND	ug/kg	1	31	110	
1,1,1-Trichloroethane	ND	ug/kg	1	22	77	
1,1,2-Trichloroethane	ND	ug/kg	1	22	79	
Trichloroethene	ND	ug/kg	1	29	100	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 257346

Project Description: DB Oak/ 42-1-37320-003

Project Title: Template: SATS Printed: 04/06/2016 17:07

Sample: 911703 Blank Collected: 03/23/16 Analyzed: 04/04/16 - Analytes: 61

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/kg	1	16	57	
1,2,3-Trichloropropane	ND	ug/kg	1	29	100	
1,2,4-Trimethylbenzene	ND	ug/kg	1	23	83	
1,3,5-Trimethylbenzene	ND	ug/kg	1	22	76	
Vinyl chloride	ND	ug/kg	1	17	61	
meta,para-Xylene	ND	ug/kg	1	39	140	
MTBE	ND	ug/kg	1	20	70	
Isopropyl Ether	ND	ug/kg	1	22	76	
Dibromofluoromethane (SURR)	103%					S
Toluene-d8 (SURR)	93%					S
1-Bromo-4-Fluorobenzene (SURR)	100%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL REPORT

Client: Shannon & Wilson, Inc.
 Attn: Mark McColloch, P.G.
 2110 Luann Lane
 Suite 101
 Madison, WI 53713

NLS Project: 258262

NLS Customer: 104721

Fax: 608 442 9013 **Phone:** 608 442 5223

Project: DB Oak/42-1-37320

SED-1 2.0-4.0' NLS ID: 914482

COC: 101118:1 Matrix: SO
 Collected: 04/08/16 00:00 Received: 04/11/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	89.1	%	1	0.10*		04/11/16	SM 2540-G 20ed	721026460
VOCs (soil) by EPA Method 8260C	see attached					04/13/16	SW846 8260C	721026460

SED-5 0.5-2.0' NLS ID: 914483

COC: 101118:2 Matrix: SO
 Collected: 04/08/16 00:00 Received: 04/11/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	67.3	%	1	0.10*		04/11/16	SM 2540-G 20ed	721026460
VOCs (soil) by EPA Method 8260C	see attached					04/13/16	SW846 8260C	721026460

SED-5 2.0-4.0' NLS ID: 914484

COC: 101118:3 Matrix: SO
 Collected: 04/08/16 00:00 Received: 04/11/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	83.9	%	1	0.10*		04/11/16	SM 2540-G 20ed	721026460
VOCs (soil) by EPA Method 8260C	see attached					04/13/16	SW846 8260C	721026460

SED-6 0.5-2.0' NLS ID: 914485

COC: 101118:4 Matrix: SO
 Collected: 04/08/16 00:00 Received: 04/11/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	61.7	%	1	0.10*		04/11/16	SM 2540-G 20ed	721026460
VOCs (soil) by EPA Method 8260C	see attached					04/13/16	SW846 8260C	721026460

SED-6 2.0-4.0' NLS ID: 914486

COC: 101118:5 Matrix: SO
 Collected: 04/08/16 00:00 Received: 04/11/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	84.1	%	1	0.10*		04/11/16	SM 2540-G 20ed	721026460
VOCs (soil) by EPA Method 8260C	see attached					04/13/16	SW846 8260C	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable
 DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
 R. T. Krueger
 President

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Page 1 of 10

Customer: Shannon & Wilson, Inc. NLS Project: 258262

Project Description: DB Oak/42-1-37320

Project Title: Template: SATS Printed: 04/15/2016 10:52

Sample: 914482 SED-1 2.0-4.0' Collected: 04/08/16 Analyzed: 04/13/16 - 89.1%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Benzene	ND	ug/kg	1	22	79	
Bromobenzene	ND	ug/kg	1	22	80	
Bromochloromethane	ND	ug/kg	1	20	72	
Bromodichloromethane	ND	ug/kg	1	16	58	
Bromoform	ND	ug/kg	1	20	70	
Bromomethane	ND	ug/kg	1	6.9	25	
n-Butylbenzene	ND	ug/kg	1	21	73	
sec-Butylbenzene	ND	ug/kg	1	19	68	
tert-Butylbenzene	ND	ug/kg	1	21	75	
Carbon Tetrachloride	ND	ug/kg	1	22	78	
Chlorobenzene	ND	ug/kg	1	22	79	
Chloroethane	ND	ug/kg	1	170	610	
Chloroform	ND	ug/kg	1	18	64	
Chloromethane	ND	ug/kg	1	18	64	
2-Chlorotoluene	ND	ug/kg	1	22	77	
4-Chlorotoluene	ND	ug/kg	1	21	75	
Dibromochloromethane	ND	ug/kg	1	20	70	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	25	89	
1,2-Dibromoethane	ND	ug/kg	1	23	82	
Dibromomethane	ND	ug/kg	1	19	68	
1,2-Dichlorobenzene	ND	ug/kg	1	19	69	
1,3-Dichlorobenzene	ND	ug/kg	1	17	61	
1,4-Dichlorobenzene	ND	ug/kg	1	21	74	
Dichlorodifluoromethane	ND	ug/kg	1	26	91	
1,1-Dichloroethane	ND	ug/kg	1	21	75	
1,2-Dichloroethane	ND	ug/kg	1	25	88	
1,1-Dichloroethene	ND	ug/kg	1	21	75	
cis-1,2-Dichloroethene	ND	ug/kg	1	20	72	
trans-1,2-Dichloroethene	ND	ug/kg	1	19	68	
1,2-Dichloropropane	ND	ug/kg	1	19	67	
1,3-Dichloropropane	ND	ug/kg	1	20	70	
2,2-Dichloropropane	ND	ug/kg	1	16	58	
1,1-Dichloropropene	ND	ug/kg	1	18	65	
cis-1,3-Dichloropropene	ND	ug/kg	1	18	65	
trans-1,3-Dichloropropene	ND	ug/kg	1	19	67	
Ethylbenzene	ND	ug/kg	1	27	96	
Hexachlorobutadiene	ND	ug/kg	1	29	100	
Isopropylbenzene	ND	ug/kg	1	20	70	
p-Isopropyltoluene	ND	ug/kg	1	18	65	
Methylene chloride	ND	ug/kg	1	19	66	
Naphthalene	ND	ug/kg	1	37	130	
n-Propylbenzene	ND	ug/kg	1	20	69	
ortho-Xylene	ND	ug/kg	1	19	66	
Styrene	ND	ug/kg	1	16	56	
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	21	73	
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	24	84	
Tetrachloroethene	120	ug/kg	1	20	72	
Toluene	ND	ug/kg	1	19	66	
1,2,3-Trichlorobenzene	ND	ug/kg	1	25	89	
1,2,4-Trichlorobenzene	ND	ug/kg	1	31	110	
1,1,1-Trichloroethane	ND	ug/kg	1	22	77	
1,1,2-Trichloroethane	ND	ug/kg	1	22	79	
Trichloroethene	ND	ug/kg	1	29	100	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 258262

Project Description: DB Oak/42-1-37320

Project Title: Template: SATS Printed: 04/15/2016 10:52

Sample: 914482 SED-1 2.0-4.0' Collected: 04/08/16 Analyzed: 04/13/16 - 89.1%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/kg	1	16	57	
1,2,3-Trichloropropane	ND	ug/kg	1	29	100	
1,2,4-Trimethylbenzene	ND	ug/kg	1	23	83	
1,3,5-Trimethylbenzene	ND	ug/kg	1	22	76	
Vinyl chloride	ND	ug/kg	1	17	61	
meta,para-Xylene	ND	ug/kg	1	39	140	
MTBE	ND	ug/kg	1	20	70	
Isopropyl Ether	ND	ug/kg	1	22	76	
Dibromofluoromethane (SURR)	94%					S
Toluene-d8 (SURR)	98%					S
1-Bromo-4-Fluorobenzene (SURR)	103%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Page 3 of 10

Customer: Shannon & Wilson, Inc. NLS Project: 258262

Project Description: DB Oak/42-1-37320

Project Title: Template: SATS Printed: 04/15/2016 10:52

Sample: 914483 SED-5 0.5-2.0' Collected: 04/08/16 Analyzed: 04/13/16 - 67.3%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Benzene	ND	ug/kg	1	22	79	
Bromobenzene	ND	ug/kg	1	22	80	
Bromochloromethane	ND	ug/kg	1	20	72	
Bromodichloromethane	ND	ug/kg	1	16	58	
Bromoform	ND	ug/kg	1	20	70	
Bromomethane	ND	ug/kg	1	6.9	25	
n-Butylbenzene	ND	ug/kg	1	21	73	
sec-Butylbenzene	ND	ug/kg	1	19	68	
tert-Butylbenzene	ND	ug/kg	1	21	75	
Carbon Tetrachloride	ND	ug/kg	1	22	78	
Chlorobenzene	ND	ug/kg	1	22	79	
Chloroethane	ND	ug/kg	1	170	610	
Chloroform	ND	ug/kg	1	18	64	
Chloromethane	ND	ug/kg	1	18	64	
2-Chlorotoluene	ND	ug/kg	1	22	77	
4-Chlorotoluene	ND	ug/kg	1	21	75	
Dibromochloromethane	ND	ug/kg	1	20	70	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	25	89	
1,2-Dibromoethane	ND	ug/kg	1	23	82	
Dibromomethane	ND	ug/kg	1	19	68	
1,2-Dichlorobenzene	ND	ug/kg	1	19	69	
1,3-Dichlorobenzene	ND	ug/kg	1	17	61	
1,4-Dichlorobenzene	ND	ug/kg	1	21	74	
Dichlorodifluoromethane	ND	ug/kg	1	26	91	
1,1-Dichloroethane	ND	ug/kg	1	21	75	
1,2-Dichloroethane	ND	ug/kg	1	25	88	
1,1-Dichloroethene	ND	ug/kg	1	21	75	
cis-1,2-Dichloroethene	170	ug/kg	1	20	72	
trans-1,2-Dichloroethene	ND	ug/kg	1	19	68	
1,2-Dichloropropane	ND	ug/kg	1	19	67	
1,3-Dichloropropane	ND	ug/kg	1	20	70	
2,2-Dichloropropane	ND	ug/kg	1	16	58	
1,1-Dichloropropene	ND	ug/kg	1	18	65	
cis-1,3-Dichloropropene	ND	ug/kg	1	18	65	
trans-1,3-Dichloropropene	ND	ug/kg	1	19	67	
Ethylbenzene	ND	ug/kg	1	27	96	
Hexachlorobutadiene	ND	ug/kg	1	29	100	
Isopropylbenzene	ND	ug/kg	1	20	70	
p-Isopropyltoluene	ND	ug/kg	1	18	65	
Methylene chloride	ND	ug/kg	1	19	66	
Naphthalene	ND	ug/kg	1	37	130	
n-Propylbenzene	ND	ug/kg	1	20	69	
ortho-Xylene	ND	ug/kg	1	19	66	
Styrene	ND	ug/kg	1	16	56	
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	21	73	
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	24	84	
Tetrachloroethene	790	ug/kg	1	20	72	
Toluene	ND	ug/kg	1	19	66	
1,2,3-Trichlorobenzene	ND	ug/kg	1	25	89	
1,2,4-Trichlorobenzene	ND	ug/kg	1	31	110	
1,1,1-Trichloroethane	ND	ug/kg	1	22	77	
1,1,2-Trichloroethane	ND	ug/kg	1	22	79	
Trichloroethene	[72]	ug/kg	1	29	100	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 258262

Project Description: DB Oak/42-1-37320

Project Title: Template: SATS Printed: 04/15/2016 10:52

Sample: 914483 SED-5 0.5-2.0' Collected: 04/08/16 Analyzed: 04/13/16 - 67.3%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/kg	1	16	57	
1,2,3-Trichloropropane	ND	ug/kg	1	29	100	
1,2,4-Trimethylbenzene	ND	ug/kg	1	23	83	
1,3,5-Trimethylbenzene	ND	ug/kg	1	22	76	
Vinyl chloride	[56]	ug/kg	1	17	61	
meta,para-Xylene	ND	ug/kg	1	39	140	
MTBE	ND	ug/kg	1	20	70	
Isopropyl Ether	ND	ug/kg	1	22	76	
Dibromofluoromethane (SURR)	105%					S
Toluene-d8 (SURR)	101%					S
1-Bromo-4-Fluorobenzene (SURR)	107%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Page 5 of 10

Customer: Shannon & Wilson, Inc. NLS Project: 258262

Project Description: DB Oak/42-1-37320

Project Title: Template: SATS Printed: 04/15/2016 10:52

Sample: 914484 SED-5 2.0-4.0' Collected: 04/08/16 Analyzed: 04/13/16 - 83.9%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Benzene	ND	ug/kg	1	22	79	
Bromobenzene	ND	ug/kg	1	22	80	
Bromochloromethane	ND	ug/kg	1	20	72	
Bromodichloromethane	ND	ug/kg	1	16	58	
Bromoform	ND	ug/kg	1	20	70	
Bromomethane	ND	ug/kg	1	6.9	25	
n-Butylbenzene	ND	ug/kg	1	21	73	
sec-Butylbenzene	ND	ug/kg	1	19	68	
tert-Butylbenzene	ND	ug/kg	1	21	75	
Carbon Tetrachloride	ND	ug/kg	1	22	78	
Chlorobenzene	ND	ug/kg	1	22	79	
Chloroethane	ND	ug/kg	1	170	610	
Chloroform	ND	ug/kg	1	18	64	
Chloromethane	ND	ug/kg	1	18	64	
2-Chlorotoluene	ND	ug/kg	1	22	77	
4-Chlorotoluene	ND	ug/kg	1	21	75	
Dibromochloromethane	ND	ug/kg	1	20	70	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	25	89	
1,2-Dibromoethane	ND	ug/kg	1	23	82	
Dibromomethane	ND	ug/kg	1	19	68	
1,2-Dichlorobenzene	ND	ug/kg	1	19	69	
1,3-Dichlorobenzene	ND	ug/kg	1	17	61	
1,4-Dichlorobenzene	ND	ug/kg	1	21	74	
Dichlorodifluoromethane	ND	ug/kg	1	26	91	
1,1-Dichloroethane	ND	ug/kg	1	21	75	
1,2-Dichloroethane	ND	ug/kg	1	25	88	
1,1-Dichloroethene	ND	ug/kg	1	21	75	
cis-1,2-Dichloroethene	ND	ug/kg	1	20	72	
trans-1,2-Dichloroethene	ND	ug/kg	1	19	68	
1,2-Dichloropropane	ND	ug/kg	1	19	67	
1,3-Dichloropropane	ND	ug/kg	1	20	70	
2,2-Dichloropropane	ND	ug/kg	1	16	58	
1,1-Dichloropropene	ND	ug/kg	1	18	65	
cis-1,3-Dichloropropene	ND	ug/kg	1	18	65	
trans-1,3-Dichloropropene	ND	ug/kg	1	19	67	
Ethylbenzene	ND	ug/kg	1	27	96	
Hexachlorobutadiene	ND	ug/kg	1	29	100	
Isopropylbenzene	ND	ug/kg	1	20	70	
p-Isopropyltoluene	ND	ug/kg	1	18	65	
Methylene chloride	ND	ug/kg	1	19	66	
Naphthalene	ND	ug/kg	1	37	130	
n-Propylbenzene	ND	ug/kg	1	20	69	
ortho-Xylene	ND	ug/kg	1	19	66	
Styrene	ND	ug/kg	1	16	56	
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	21	73	
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	24	84	
Tetrachloroethene	ND	ug/kg	1	20	72	
Toluene	ND	ug/kg	1	19	66	
1,2,3-Trichlorobenzene	ND	ug/kg	1	25	89	
1,2,4-Trichlorobenzene	ND	ug/kg	1	31	110	
1,1,1-Trichloroethane	ND	ug/kg	1	22	77	
1,1,2-Trichloroethane	ND	ug/kg	1	22	79	
Trichloroethene	ND	ug/kg	1	29	100	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 258262

Project Description: DB Oak/42-1-37320

Project Title: Template: SATS Printed: 04/15/2016 10:52

Sample: 914484 SED-5 2.0-4.0' Collected: 04/08/16 Analyzed: 04/13/16 - 83.9%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/kg	1	16	57	
1,2,3-Trichloropropane	ND	ug/kg	1	29	100	
1,2,4-Trimethylbenzene	ND	ug/kg	1	23	83	
1,3,5-Trimethylbenzene	ND	ug/kg	1	22	76	
Vinyl chloride	ND	ug/kg	1	17	61	
meta,para-Xylene	ND	ug/kg	1	39	140	
MTBE	ND	ug/kg	1	20	70	
Isopropyl Ether	ND	ug/kg	1	22	76	
Dibromofluoromethane (SURR)	95%					S
Toluene-d8 (SURR)	106%					S
1-Bromo-4-Fluorobenzene (SURR)	108%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Page 7 of 10

Customer: Shannon & Wilson, Inc. NLS Project: 258262

Project Description: DB Oak/42-1-37320

Project Title: Template: SATS Printed: 04/15/2016 10:52

Sample: 914485 SED-6 0.5-2.0' Collected: 04/08/16 Analyzed: 04/13/16 - 61.7%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Benzene	ND	ug/kg	1	22	79	
Bromobenzene	ND	ug/kg	1	22	80	
Bromochloromethane	ND	ug/kg	1	20	72	
Bromodichloromethane	ND	ug/kg	1	16	58	
Bromoform	ND	ug/kg	1	20	70	
Bromomethane	ND	ug/kg	1	6.9	25	
n-Butylbenzene	ND	ug/kg	1	21	73	
sec-Butylbenzene	ND	ug/kg	1	19	68	
tert-Butylbenzene	ND	ug/kg	1	21	75	
Carbon Tetrachloride	ND	ug/kg	1	22	78	
Chlorobenzene	ND	ug/kg	1	22	79	
Chloroethane	ND	ug/kg	1	170	610	
Chloroform	ND	ug/kg	1	18	64	
Chloromethane	ND	ug/kg	1	18	64	
2-Chlorotoluene	ND	ug/kg	1	22	77	
4-Chlorotoluene	ND	ug/kg	1	21	75	
Dibromochloromethane	ND	ug/kg	1	20	70	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	25	89	
1,2-Dibromoethane	ND	ug/kg	1	23	82	
Dibromomethane	ND	ug/kg	1	19	68	
1,2-Dichlorobenzene	ND	ug/kg	1	19	69	
1,3-Dichlorobenzene	ND	ug/kg	1	17	61	
1,4-Dichlorobenzene	ND	ug/kg	1	21	74	
Dichlorodifluoromethane	ND	ug/kg	1	26	91	
1,1-Dichloroethane	ND	ug/kg	1	21	75	
1,2-Dichloroethane	ND	ug/kg	1	25	88	
1,1-Dichloroethene	ND	ug/kg	1	21	75	
cis-1,2-Dichloroethene	ND	ug/kg	1	20	72	
trans-1,2-Dichloroethene	ND	ug/kg	1	19	68	
1,2-Dichloropropane	ND	ug/kg	1	19	67	
1,3-Dichloropropane	ND	ug/kg	1	20	70	
2,2-Dichloropropane	ND	ug/kg	1	16	58	
1,1-Dichloropropene	ND	ug/kg	1	18	65	
cis-1,3-Dichloropropene	ND	ug/kg	1	18	65	
trans-1,3-Dichloropropene	ND	ug/kg	1	19	67	
Ethylbenzene	ND	ug/kg	1	27	96	
Hexachlorobutadiene	ND	ug/kg	1	29	100	
Isopropylbenzene	ND	ug/kg	1	20	70	
p-Isopropyltoluene	ND	ug/kg	1	18	65	
Methylene chloride	ND	ug/kg	1	19	66	
Naphthalene	ND	ug/kg	1	37	130	
n-Propylbenzene	ND	ug/kg	1	20	69	
ortho-Xylene	ND	ug/kg	1	19	66	
Styrene	ND	ug/kg	1	16	56	
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	21	73	
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	24	84	
Tetrachloroethene	540	ug/kg	1	20	72	
Toluene	ND	ug/kg	1	19	66	
1,2,3-Trichlorobenzene	ND	ug/kg	1	25	89	
1,2,4-Trichlorobenzene	ND	ug/kg	1	31	110	
1,1,1-Trichloroethane	ND	ug/kg	1	22	77	
1,1,2-Trichloroethane	100	ug/kg	1	22	79	
Trichloroethene	ND	ug/kg	1	29	100	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 258262

Project Description: DB Oak/42-1-37320

Project Title: Template: SATS Printed: 04/15/2016 10:52

Sample: 914485 SED-6 0.5-2.0' Collected: 04/08/16 Analyzed: 04/13/16 - 61.7%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/kg	1	16	57	
1,2,3-Trichloropropane	ND	ug/kg	1	29	100	
1,2,4-Trimethylbenzene	ND	ug/kg	1	23	83	
1,3,5-Trimethylbenzene	ND	ug/kg	1	22	76	
Vinyl chloride	ND	ug/kg	1	17	61	
meta,para-Xylene	ND	ug/kg	1	39	140	
MTBE	ND	ug/kg	1	20	70	
Isopropyl Ether	ND	ug/kg	1	22	76	
Dibromofluoromethane (SURR)	108%					S
Toluene-d8 (SURR)	99%					S
1-Bromo-4-Fluorobenzene (SURR)	106%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Page 9 of 10

Customer: Shannon & Wilson, Inc. NLS Project: 258262

Project Description: DB Oak/42-1-37320

Project Title: Template: SATS Printed: 04/15/2016 10:52

Sample: 914486 SED-6 2.0-4.0' Collected: 04/08/16 Analyzed: 04/13/16 - 84.1%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Benzene	ND	ug/kg	1	22	79	
Bromobenzene	ND	ug/kg	1	22	80	
Bromochloromethane	ND	ug/kg	1	20	72	
Bromodichloromethane	ND	ug/kg	1	16	58	
Bromoform	ND	ug/kg	1	20	70	
Bromomethane	ND	ug/kg	1	6.9	25	
n-Butylbenzene	ND	ug/kg	1	21	73	
sec-Butylbenzene	ND	ug/kg	1	19	68	
tert-Butylbenzene	ND	ug/kg	1	21	75	
Carbon Tetrachloride	ND	ug/kg	1	22	78	
Chlorobenzene	ND	ug/kg	1	22	79	
Chloroethane	ND	ug/kg	1	170	610	
Chloroform	ND	ug/kg	1	18	64	
Chloromethane	ND	ug/kg	1	18	64	
2-Chlorotoluene	ND	ug/kg	1	22	77	
4-Chlorotoluene	ND	ug/kg	1	21	75	
Dibromochloromethane	ND	ug/kg	1	20	70	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	25	89	
1,2-Dibromoethane	ND	ug/kg	1	23	82	
Dibromomethane	ND	ug/kg	1	19	68	
1,2-Dichlorobenzene	[52]	ug/kg	1	19	69	
1,3-Dichlorobenzene	ND	ug/kg	1	17	61	
1,4-Dichlorobenzene	ND	ug/kg	1	21	74	
Dichlorodifluoromethane	ND	ug/kg	1	26	91	
1,1-Dichloroethane	ND	ug/kg	1	21	75	
1,2-Dichloroethane	ND	ug/kg	1	25	88	
1,1-Dichloroethene	ND	ug/kg	1	21	75	
cis-1,2-Dichloroethene	ND	ug/kg	1	20	72	
trans-1,2-Dichloroethene	ND	ug/kg	1	19	68	
1,2-Dichloropropane	ND	ug/kg	1	19	67	
1,3-Dichloropropane	ND	ug/kg	1	20	70	
2,2-Dichloropropane	ND	ug/kg	1	16	58	
1,1-Dichloropropene	ND	ug/kg	1	18	65	
cis-1,3-Dichloropropene	ND	ug/kg	1	18	65	
trans-1,3-Dichloropropene	ND	ug/kg	1	19	67	
Ethylbenzene	ND	ug/kg	1	27	96	
Hexachlorobutadiene	ND	ug/kg	1	29	100	
Isopropylbenzene	ND	ug/kg	1	20	70	
p-Isopropyltoluene	ND	ug/kg	1	18	65	
Methylene chloride	ND	ug/kg	1	19	66	
Naphthalene	ND	ug/kg	1	37	130	
n-Propylbenzene	ND	ug/kg	1	20	69	
ortho-Xylene	ND	ug/kg	1	19	66	
Styrene	ND	ug/kg	1	16	56	
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	21	73	
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	24	84	
Tetrachloroethene	[33]	ug/kg	1	20	72	
Toluene	ND	ug/kg	1	19	66	
1,2,3-Trichlorobenzene	ND	ug/kg	1	25	89	
1,2,4-Trichlorobenzene	ND	ug/kg	1	31	110	
1,1,1-Trichloroethane	ND	ug/kg	1	22	77	
1,1,2-Trichloroethane	ND	ug/kg	1	22	79	
Trichloroethene	ND	ug/kg	1	29	100	

ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)

Customer: Shannon & Wilson, Inc. NLS Project: 258262

Project Description: DB Oak/42-1-37320

Project Title: Template: SATS Printed: 04/15/2016 10:52

Sample: 914486 SED-6 2.0-4.0' Collected: 04/08/16 Analyzed: 04/13/16 - 84.1%Solids Analytes: 61

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/kg	1	16	57	
1,2,3-Trichloropropane	ND	ug/kg	1	29	100	
1,2,4-Trimethylbenzene	ND	ug/kg	1	23	83	
1,3,5-Trimethylbenzene	ND	ug/kg	1	22	76	
Vinyl chloride	ND	ug/kg	1	17	61	
meta,para-Xylene	ND	ug/kg	1	39	140	
MTBE	ND	ug/kg	1	20	70	
Isopropyl Ether	ND	ug/kg	1	22	76	
Dibromofluoromethane (SURR)	102%					S
Toluene-d8 (SURR)	93%					S
1-Bromo-4-Fluorobenzene (SURR)	103%					S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

CLIENT: SHANNON S WILSON, INC.
 ADDRESS: 2110 LANNE LANE, SUITE 101
 CITY: MADISON STATE: WI ZIP: 53713
 PROJECT DESCRIPTION / NO.: DB OAK / 42-1-37320 QUOTATION NO.:
 DNR FID # _____ DNR LICENSE # _____
 CONTACT: MARK MCGILLOCH PHONE: 608/442-5223
 PURCHASE ORDER NO. _____ FAX: 608/442-9013

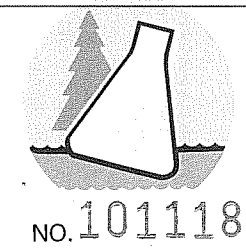
Wisconsin Lab Cert. No. 721026460
 WI DATCP 105-000330

Analytical Laboratory and Environmental Services
 400 North Lake Avenue • Crandon, WI 54520-1298
 Tel: (715) 478-2777 • Fax: (715) 478-3060

MATRIX:
 SW = surface water
 WW = waste water
 GW = groundwater
 DW = drinking water
 TIS = tissue
 AIR = air
 SOIL = soil
 SED = sediment
 PROD = product
 SL = sludge
 OTHER _____

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
 Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS	702 8/6/55	702 8/6/55																		
	725 8/6/55	725 8/6/55																		



ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS															COLLECTION REMARKS (i.e. DNR Well ID #)							
			DATE	TIME		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15								
1.	914482	SED-1 2.0-4.0'	04-08-16		SED	Z	I																					
2.	483	SED-5 0.5-2.0'	↓		↓	Z	I																					
3.	484	SED-5 2.0-4.0'		Z		I																						
4.	485	SED-6 0.5-2.0'		Z		I																						
5.	486	SED-6 2.0-4.0'		Z		I																						
6.																												
7.																												
8.																												
9.																												
10.																												

COLLECTED BY (signature): Mark McGilloch CUSTODY SEAL NO. (IF ANY): DATE/TIME: 04-08-16 1725
 RELINQUISHED BY (signature): Mark McGilloch RECEIVED BY (signature): Danham Express DATE/TIME: 04-08-16 1725
 DISPATCHED BY (signature): METHOD OF TRANSPORT: DATE/TIME:

REPORT TO: MARK MCGILLOCH
 SHANNON S WILSON, INC
 2110 LANNE LANE SUITE 101
 MADISON, WI 53713

RECEIVED AT NLS BY (signature): Emily Kalkauer DATE/TIME: 4-9-16 0930 CONDITION: on ice TEMP.:
 COOLER # _____ REMARKS & OTHER INFORMATION:
 PRESERVATIVE: N = nitric acid OH = sodium hydroxide
 NP = no preservative Z = zinc acetate HA = hydrochloric & ascorbic acid
 S = sulfuric acid M = methanol H = hydrochloric acid
 WDNR FACILITY NUMBER _____ E-MAIL ADDRESS _____

INVOICE TO: SAME

IMPORTANT:

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

Appendix G

Off-site Well Soil Boring Logs, Well Construction and Development Forms

ANDERSON LAND SURVEYING LLC

Mark E. Anderson, Professional Land Surveyor
W6141 Star School Road, Fort Atkinson, WI 53538
Tel: 920-563-8162 andersonlandsurvey@gmail.com

ELEVATION REPORT

April 19, 2016

FOR: Shannon & Wilson, Inc.
Attn: Mark McColloch, P.G.
2110 Luann Lane, Suite 101
Madison, WI 53713

SITE: DB Oaks
(Former Thomas Industries)
700 Oak Street
Fort Atkinson, WI 53538

PURPOSE: Determine elevations of monitoring wells on site.

BENCHMARKS: Rim – MW-9 – Elevation 791.46

ELEVATIONS:	Monitoring Wells	Top of PVC	Rim
	MW-10	791.17	791.69
	MW-10A	791.25	791.71
	MW-11	790.20	790.72
	MW-12	793.72	794.14
	MW-12A	793.54	793.98



JN 05S-40

4-19-16

Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Facility / Project Name DB Oak – Fort Atkinson, Wisconsin		License/Permit/Monitoring Number _____		Boring Number MW-10	
Boring Drilled By (Firm name and name of crew chief) Badger State Drilling Kevin		Date Drilling Started <u>03</u> / <u>29</u> / <u>16</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>29</u> / <u>16</u> MM DD YY	
DNR Facility Well No. _____		WI Unique Well No. _____		Common Well Name MW-10	
Final Static Water Level _____ Feet MSL		Surface Elevation 791.7 Feet MSL		Borehole Diameter <u>8.5</u> inches	
Boring Location State Plane _____ N. _____ E S/C/N NE 1/4 of SE 1/4 of Section 34 T 6 N, R 14 E			Lat _____ Long _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W
County Jefferson		DNR County Code 2 8		Civil Town / City / or Village City of Fort Atkinson	

Sample Number	Length Recovered (N)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	17	2, 5 5	1	Dark brown sandy silt loam (Topsoil)										
			2											
2	12	3, 7 16	3											
			4	Stiff light gray brown SILTY CLAY, low plasticity, very moist. Silty sand seam (1/2- inch thick) at 4 1/2 feet.	CL									
			9	Stiff, yellow brown SILTY CLAY, some fine sand, trace gravel, low plasticity, very moist.	CL									
			10	- Grades into SILTY SAND at 10 feet.										
			11	Dense yellow brown fine grained SAND, some silt, little coarse sand, trace gravel, wet, poorly graded.	SM									
			13	- Groundwater encountered at 13 feet while drilling.										

NOTE: No samples collected from the MW-10 boring; soil descriptions from the adjacent MW-10A boring.

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

Signature Shannon & Wilson Firm **Shannon & Wilson, Madison, Wisconsin**

Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Facility / Project Name DB Oak – Fort Atkinson, Wisconsin		License/Permit/Monitoring Number _____		Boring Number MW-10A	
Boring Drilled By (Firm name and name of crew chief) Badger State Drilling Kevin		Date Drilling Started <u>03</u> / <u>29</u> / <u>16</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>29</u> / <u>16</u> MM DD YY	
DNR Facility Well No. _____		WI Unique Well No. _____		Common Well Name MW - 10A	
Final Static Water Level _____ Feet MSL		Surface Elevation <u>791.7</u> Feet MSL		Borehole Diameter <u>8.25</u> inches	
Boring Location State Plane _____ N. _____ E S/C/N <u>NW</u> 1/4 of <u>SE</u> 1/4 of Section <u>34</u> T <u>6</u> N, R <u>14</u> E			Lat _____ Long _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W
County Jefferson		DNR County Code <u>2</u> <u>8</u>		Civil Town / City / or Village City of Fort Atkinson	

Sample Number	Length Recovered (N)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	17	2, 5 5	1	Dark brown sandy silt loam (Topsoil)										
			2											
2	12	3, 7 16	3											
			4	Stiff light gray brown SILTY CLAY, low plasticity, very moist. Silty sand seam (1/2- inch thick) at 4 1/2 feet.	CL									
			9	Stiff, yellow brown SILTY CLAY, some fine sand, trace gravel, low plasticity, very moist.	CL									
			10	- Grades into SILTY SAND at 10 feet.										
			11	Dense yellow brown fine grained SAND, some silt, little coarse sand, trace gravel, wet, poorly graded.	SM									
			12											
			13	- Groundwater encountered at 13 feet while drilling.										
			14											

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

Signature Shannon & Wilson Firm **Shannon & Wilson, Madison, Wisconsin**

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$4,000 for each violation. Fines not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats

Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Facility / Project Name DB Oak – Fort Atkinson, Wisconsin		License/Permit/Monitoring Number _____		Boring Number MW-11	
Boring Drilled By (Firm name and name of crew chief) Badger State Drilling Kevin		Date Drilling Started <u>03</u> / <u>29</u> / <u>16</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>29</u> / <u>16</u> MM DD YY	
DNR Facility Well No. _____		WI Unique Well No. _____		Common Well Name MW-11	
Final Static Water Level _____ Feet MSL		Surface Elevation 791.7 Feet MSL		Borehole Diameter <u>8.5</u> inches	
Boring Location State Plane _____ N. _____ E S/C/N NE 1/4 of SE 1/4 of Section 34 T 6 N, R 14 E			Lat _____ Long _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W
County Jefferson		DNR County Code 2 8		Civil Town / City / or Village City of Fort Atkinson	

Sample Number	Length Recovered (N)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			1	Asphalt pavement between building and Lorman Street.											
1	12	2, 5 5	4	Medium dense yellow brown fine grained SAND, some silt, little gravel, moist, poorly graded.	SM					10					
2	12	5, 12 15	9	Medium dense yellow brown fine grained SAND, some silt, little gravel, very moist, poorly graded.	SM					27					
			13	- Driller report hard drilling below 14 feet.											

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Signature <i>Shannon & Wilson</i>	Firm Shannon & Wilson, Madison, Wisconsin
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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Facility / Project Name DB Oak – Fort Atkinson, Wisconsin		License/Permit/Monitoring Number _____		Boring Number MW-12	
Boring Drilled By (Firm name and name of crew chief) Badger State Drilling Kevin		Date Drilling Started <u>03</u> / <u>30</u> / <u>16</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>30</u> / <u>16</u> MM DD YY	
DNR Facility Well No. _____		WI Unique Well No. _____		Common Well Name MW - 12	
Final Static Water Level _____ Feet MSL		Surface Elevation <u>794.0</u> Feet MSL		Borehole Diameter <u>8.25</u> inches	
Boring Location State Plane _____ N. _____ E S/C/N <u>NW</u> 1/4 of <u>SE</u> 1/4 of Section <u>34</u> T <u>6</u> N, R <u>14</u> E			Lat _____ Long _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W
County Jefferson		DNR County Code <u>2</u> <u>8</u>		Civil Town / City / or Village City of Fort Atkinson	

Sample Number	Length Recovered (N)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	14	3, 6 8	1	Dark brown sandy silt loam (Topsoil)										NOTE: No samples collected from the MW-12 boring; soil descriptions from the adjacent MW-12A boring.
			4	Stiff dark brown SILTY CLAY, trace fine sand, low plasticity, moist.	CL							14		
2	18	5, 8 16	9	Medium dense dark yellow brown fine grained sand, some SILTY CLAY, little gravel, moist, poorly graded (low plasticity fines).	SC									
			10								24			
			13	- Grades into fine to medium grained SAND.	SP									
			14	- Groundwater encountered at 14 feet while drilling.										

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Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Facility / Project Name DB Oak – Fort Atkinson, Wisconsin		License/Permit/Monitoring Number _____		Boring Number MW-12A	
Boring Drilled By (Firm name and name of crew chief) Badger State Drilling Kevin		Date Drilling Started <u>03</u> / <u>30</u> / <u>16</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>30</u> / <u>16</u> MM DD YY	
DNR Facility Well No. _____		WI Unique Well No. _____		Common Well Name MW - 12A	
Final Static Water Level _____ Feet MSL		Surface Elevation 794.0 Feet MSL		Borehole Diameter 8.25 inches	
Boring Location State Plane _____ N. _____ E S/C/N NW 1/4 of SE 1/4 of Section 34 T 6 N, R 14 E			Lat _____ Long _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W
County Jefferson		DNR County Code 2 8		Civil Town / City / or Village City of Fort Atkinson	

Sample Number	Length Recovered (N)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
1	14	3, 6 8	1	Dark brown sandy silt loam (Topsoil)											
			2												
			3												
			4	Stiff dark brown SILTY CLAY, trace fine sand, low plasticity, moist.	CL			14							
2	18	5, 8 16	5												
			6												
			7												
			8												
			9	Medium dense dark yellow brown fine grained sand, some SILTY CLAY, little gravel, moist, poorly graded (low plasticity fines).	SC						24				
			10												
			11												
			12												
			13	- Grades into fine to medium grained SAND.	SP										
			14	- Groundwater encountered at 14 feet while drilling.											

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Boring Number **MW-12A**

Page **2** of **3**

Sample		Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
Number	Length Recovered (N)								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
3	15	3, 7 10	15	Medium dense dark yellow brown fine to medium grained SAND, little gravel, wet, poorly graded.	SP			17						
4	16	7, 4 50/5"	19	Very dense dark yellow brown fine to medium grained SAND, little gravel, wet, poorly graded.	SP			50+						
5	4	7, 4 50/3"	24	Very dense dark yellow brown fine to medium grained SAND – as above.	SP			50+						
6	8	15 50/5"	29	Very dense light gray brown fine to medium grained SAND, trace gravel, wet, poorly graded.	SP			50+						
7	15	3, 9 21	34	Medium dense light gray brown fine to medium grained SAND, trace gravel, wet, poorly graded.	SP			30						

Facility/Project Name DB Oak – Fort Atkinson, Wisconsin	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name MW-10
Facility License, Permit or Monitoring Number _____	Grid Origin Location Lat. _____ Long. _____ St. Plane _____ ft. N, _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Distance Well Is From Waste/Source Boundary	Date Well Installed <u>03/29/16</u> m m d d y y
Is Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input type="checkbox"/> No	Section Location of Waste/Source <input checked="" type="checkbox"/> E NE 1/4 of SE 1/4 of Sec. 34, T. 6 N, R. 14 <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Kevin D. Badger State Drilling
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

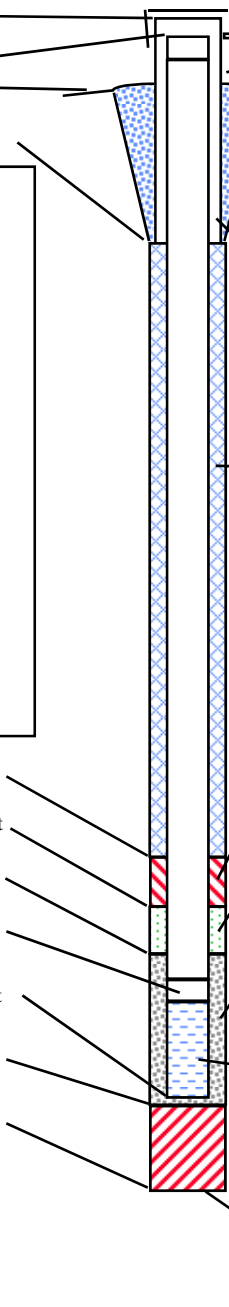
<p>A. Protective pipe, top elevation <u>791.69</u> ft. MSL</p> <p>B. Well casing, top elevation <u>791.17</u> ft. MSL</p> <p>C. Land surface elevation <u>791.7</u> ft. MSL</p> <p>D. Surface seal, bottom <u>790.7</u> ft MSL or <u>1.0</u> ft</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/> _____</p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____</p> <p>17. Source of water (attached analysis): _____</p> </div> <p>E. Bentonite seal, top <u>789.7</u> ft MSL or <u>2.0</u> ft</p> <p>F. Fine sand, top <u>786.7</u> ft MSL or <u>7.0</u> ft</p> <p>G. Filter pack, top <u>786.7</u> ft MSL or <u>7.0</u> ft</p> <p>H. Screen joint, top <u>781.7</u> ft MSL or <u>10.0</u> ft</p> <p>I. Well bottom <u>771.7</u> ft MSL or <u>20.0</u> ft</p> <p>J. Filter pack, bottom <u>771.2</u> ft MSL or <u>20.5</u> ft</p> <p>K. Borehole, bottom <u>771.2</u> ft MSL or <u>20.5</u> ft</p> <p>L. Borehole, diameter <u>8.3</u> in.</p> <p>M. O.D. well casing <u>2.37</u> in.</p> <p>N. I.D. well casing <u>2.06</u> in.</p>		<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>8.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Flush Mount Steel <input checked="" type="checkbox"/> Other <input type="checkbox"/> _____</p> <p>d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/> _____</p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Annular Space Seal <input type="checkbox"/> _____ Native soil <input checked="" type="checkbox"/> _____</p> <p>5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight. Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ 125 lbs. Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/> _____</p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>Sidley #5</u> b. Volume added _____ lb</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>Sidley #5</u> b. Volume added <u>275</u> lb</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/> _____</p> <p>10. Screen material: <u>Schedule 40 PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> _____ b. Manufacturer <u>Monoflex</u> c. Slot size <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.</p> <p>11. Backfill material (below filler pack): None <input type="checkbox"/> 1 4 Natural collapse <input checked="" type="checkbox"/> _____</p>
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Signature Shannon & Wilson Firm Shannon & Wilson, Madison, Wisconsin

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DB Oak – Fort Atkinson, Wisconsin	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name MW-10A
Facility License, Permit or Monitoring Number _____	Grid Origin Location Lat. _____ Long. _____ St. Plane _____ ft. N, _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Piezometer <input checked="" type="checkbox"/> 12	Distance Well Is From Waste/Source Boundary _____	Date Well Installed <u>03</u> / <u>29</u> / <u>16</u> m m d d y y
Is Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input type="checkbox"/> No	Section Location of Waste/Source <input checked="" type="checkbox"/> E NE 1/4 of SE 1/4 of Sec. 34, T. 6 N, R. 14 <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Kevin D. Badger State Drilling
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

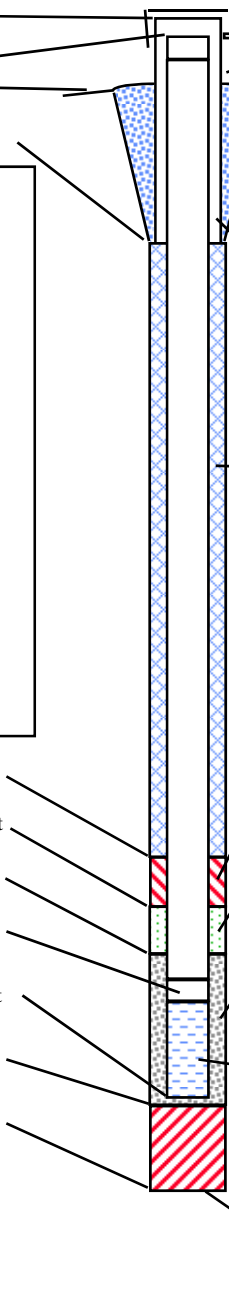
<p>A. Protective pipe, top elevation <u>791.71</u> ft. MSL</p> <p>B. Well casing, top elevation <u>791.25</u> ft. MSL</p> <p>C. Land surface elevation <u>791.7</u> ft. MSL</p> <p>D. Surface seal, bottom <u>790.7</u> ft MSL or <u>1.0</u> ft</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/> _____</p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____</p> <p>17. Source of water (attached analysis): _____</p> </div> <p>E. Bentonite seal, top <u>787.7</u> ft MSL or <u>4.0</u> ft</p> <p>F. Fine sand, top <u>754.2</u> ft MSL or <u>37.5</u> ft</p> <p>G. Filter pack, top <u>754.2</u> ft MSL or <u>37.5</u> ft</p> <p>H. Screen joint, top <u>750.7</u> ft MSL or <u>41.0</u> ft</p> <p>I. Well bottom <u>745.7</u> ft MSL or <u>46.0</u> ft</p> <p>J. Filter pack, bottom <u>745.2</u> ft MSL or <u>46.5</u> ft</p> <p>K. Borehole, bottom <u>743.7</u> ft MSL or <u>48.0</u> ft</p> <p>L. Borehole, diameter <u>8.3</u> in.</p> <p>M. O.D. well casing <u>2.37</u> in.</p> <p>N. I.D. well casing <u>2.06</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>8.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Flush Mount Steel <input checked="" type="checkbox"/> Other <input type="checkbox"/> _____</p> <p>d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/> _____</p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Annular Space Seal <input type="checkbox"/> _____ Native soil <input checked="" type="checkbox"/> _____</p> <p>5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight. Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ 550 lbs. Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/> _____</p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ lb</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. _____ No. 5 Sand b. Volume added <u>100</u> lb</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/> _____</p> <p>10. Screen material: Schedule 40 PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> _____ b. Manufacturer <u>Monoflex</u> c. Slot size <u>0.010</u> in. d. Slotted length: <u>1.0</u> ft.</p> <p>11. Backfill material (below filler pack): None <input type="checkbox"/> 1 4 Natural collapse <input checked="" type="checkbox"/> _____</p>
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DB Oak – Fort Atkinson, Wisconsin	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name MW-11
Facility License, Permit or Monitoring Number _____	Grid Origin Location Lat. _____ Long. _____ St. Plane _____ ft. N, _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Distance Well Is From Waste/Source Boundary _____	Date Well Installed <u>03</u> / <u>29</u> / <u>16</u> m m d d y y
Is Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input type="checkbox"/> No	Section Location of Waste/Source <input checked="" type="checkbox"/> E NE 1/4 of SE 1/4 of Sec. 34, T. 6 N, R. 14 <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Kevin D. Badger State Drilling
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

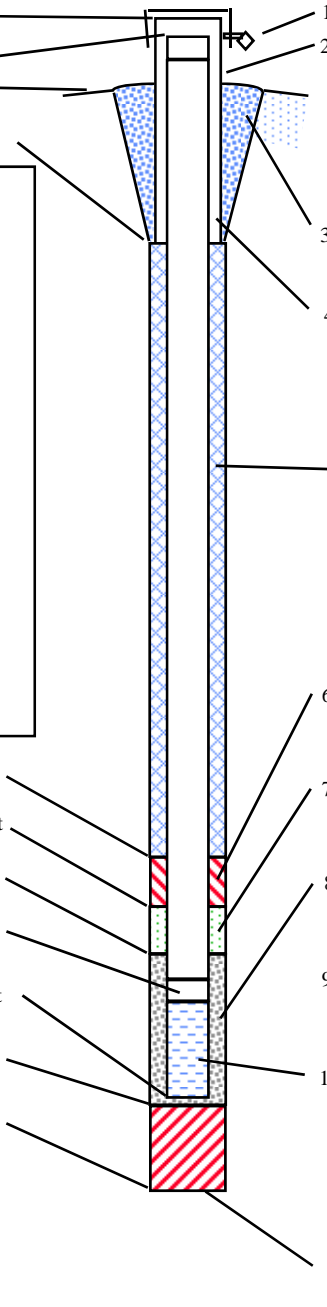
<p>A. Protective pipe, top elevation <u>790.72</u> ft. MSL</p> <p>B. Well casing, top elevation <u>790.20</u> ft. MSL</p> <p>C. Land surface elevation <u>790.7</u> ft. MSL</p> <p>D. Surface seal, bottom <u>789.7</u> ft MSL or <u>1.0</u> ft</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/> _____</p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____</p> <p>17. Source of water (attached analysis): _____</p> </div> <p>E. Bentonite seal, top <u>788.7</u> ft MSL or <u>2.0</u> ft</p> <p>F. Fine sand, top <u>783.7</u> ft MSL or <u>7.0</u> ft</p> <p>G. Filter pack, top <u>783.7</u> ft MSL or <u>7.0</u> ft</p> <p>H. Screen joint, top <u>780.7</u> ft MSL or <u>10.0</u> ft</p> <p>I. Well bottom <u>770.7</u> ft MSL or <u>20.0</u> ft</p> <p>J. Filter pack, bottom <u>770.2</u> ft MSL or <u>20.5</u> ft</p> <p>K. Borehole, bottom <u>770.2</u> ft MSL or <u>20.5</u> ft</p> <p>L. Borehole, diameter <u>8.3</u> in.</p> <p>M. O.D. well casing <u>2.37</u> in.</p> <p>N. I.D. well casing <u>2.06</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>8.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Flush Mount Steel <input checked="" type="checkbox"/> Other <input type="checkbox"/> _____</p> <p>d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/> _____</p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Annular Space Seal <input type="checkbox"/> _____ Native soil <input checked="" type="checkbox"/> _____</p> <p>5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight. Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ 125 lbs. Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/> _____</p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>Sidley #5</u> b. Volume added _____ lb</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>Sidley #5</u> b. Volume added <u>225</u> lb</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/> _____</p> <p>10. Screen material: <u>Schedule 40 PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> _____ b. Manufacturer <u>Monoflex</u> c. Slot size <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.</p> <p>11. Backfill material (below filler pack): None <input type="checkbox"/> 1 4 Natural collapse <input checked="" type="checkbox"/> _____</p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Shannon & Wilson Firm Shannon & Wilson, Madison, Wisconsin

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DB Oak – Fort Atkinson, Wisconsin	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name MW-12
Facility License, Permit or Monitoring Number _____	Grid Origin Location Lat. _____ Long. _____ St. Plane _____ ft. N, _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Distance Well Is From Waste/Source Boundary _____	Date Well Installed <u>03</u> / <u>30</u> / <u>16</u> m m d d y y
Is Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input type="checkbox"/> No	Section Location of Waste/Source <input checked="" type="checkbox"/> E NE 1/4 of SE 1/4 of Sec. 34, T. 6 N, R. 14 <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Kevin D. Badger State Drilling
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

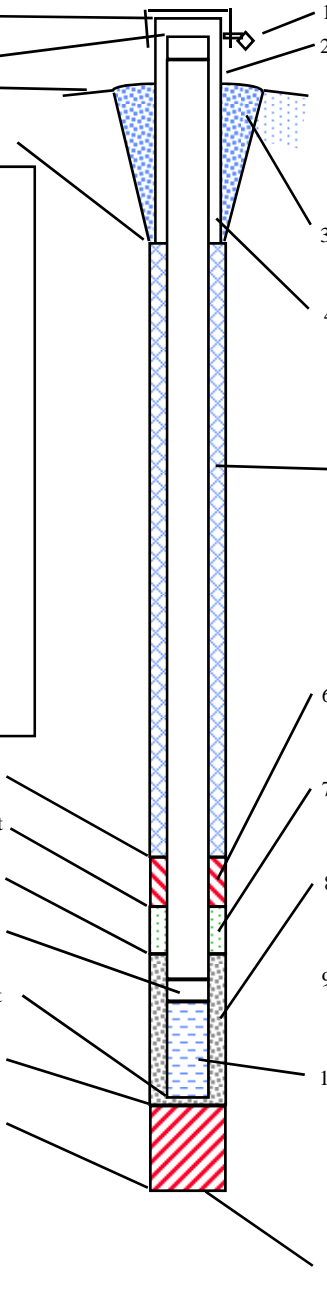
<p>A. Protective pipe, top elevation <u>794.1</u> ft. MSL</p> <p>B. Well casing, top elevation <u>793.7</u> ft. MSL</p> <p>C. Land surface elevation <u>794.1</u> ft. MSL</p> <p>D. Surface seal, bottom <u>794.1</u> ft MSL or <u>1.0</u> ft</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/> _____</p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____</p> <p>17. Source of water (attached analysis): _____</p> </div> <p>E. Bentonite seal, top <u>792.1</u> ft MSL or <u>2.0</u> ft</p> <p>F. Fine sand, top <u>787.1</u> ft MSL or <u>7.0</u> ft</p> <p>G. Filter pack, top <u>787.1</u> ft MSL or <u>7.0</u> ft</p> <p>H. Screen joint, top <u>784.1</u> ft MSL or <u>10.0</u> ft</p> <p>I. Well bottom <u>774.1</u> ft MSL or <u>20.0</u> ft</p> <p>J. Filter pack, bottom <u>773.6</u> ft MSL or <u>20.5</u> ft</p> <p>K. Borehole, bottom <u>773.6</u> ft MSL or <u>20.5</u> ft</p> <p>L. Borehole, diameter <u>8.3</u> in.</p> <p>M. O.D. well casing <u>2.37</u> in.</p> <p>N. I.D. well casing <u>2.06</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>8.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Flush Mount Steel <input checked="" type="checkbox"/> Other <input type="checkbox"/> _____</p> <p>d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/> _____</p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Annular Space Seal <input type="checkbox"/> _____ Native soil <input checked="" type="checkbox"/> _____</p> <p>5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight. Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ 125 lbs. Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/> _____</p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>Sidley #5</u> b. Volume added _____ lb</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>Sidley #5</u> b. Volume added <u>225</u> lb</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/> _____</p> <p>10. Screen material: <u>Schedule 40 PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> _____ b. Manufacturer <u>Monoflex</u> c. Slot size <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.</p> <p>11. Backfill material (below filler pack): None <input type="checkbox"/> 1 4 Natural collapse <input checked="" type="checkbox"/> _____</p>
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Signature Shannon & Wilson Firm Shannon & Wilson, Madison, Wisconsin

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DB Oak – Fort Atkinson, Wisconsin	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name MW-12A
Facility License, Permit or Monitoring Number _____	Grid Origin Location Lat. _____ Long. _____ St. Plane _____ ft. N, _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Piezometer <input checked="" type="checkbox"/> 12	Distance Well Is From Waste/Source Boundary _____	Date Well Installed <u>03</u> / <u>30</u> / <u>16</u> m m d d y y
Is Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input type="checkbox"/> No	Section Location of Waste/Source <input checked="" type="checkbox"/> E NE 1/4 of SE 1/4 of Sec. 34, T. 6 N, R. 14 <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Kevin D. Badger State Drilling
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

<p>A. Protective pipe, top elevation <u>793.98</u> ft. MSL</p> <p>B. Well casing, top elevation <u>793.54</u> ft. MSL</p> <p>C. Land surface elevation <u>794.0</u> ft. MSL</p> <p>D. Surface seal, bottom <u>793.0</u> ft MSL or <u>1.0</u> ft</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/> _____</p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____</p> <p>17. Source of water (attached analysis): _____</p> </div> <p>E. Bentonite seal, top <u>792.0</u> ft MSL or <u>2.0</u> ft</p> <p>F. Fine sand, top <u>764.0</u> ft MSL or <u>30.0</u> ft</p> <p>G. Filter pack, top <u>764.0</u> ft MSL or <u>30.0</u> ft</p> <p>H. Screen joint, top <u>754.0</u> ft MSL or <u>40.0</u> ft</p> <p>I. Well bottom <u>749.0</u> ft MSL or <u>45.0</u> ft</p> <p>J. Filter pack, bottom <u>748.5</u> ft MSL or <u>45.5</u> ft</p> <p>K. Borehole, bottom <u>748.0</u> ft MSL or <u>46.0</u> ft</p> <p>L. Borehole, diameter <u>8.3</u> in.</p> <p>M. O.D. well casing <u>2.37</u> in.</p> <p>N. I.D. well casing <u>2.06</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>8.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Flush Mount Steel <input checked="" type="checkbox"/> Other <input type="checkbox"/> _____</p> <p>d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/> _____</p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Annular Space Seal <input type="checkbox"/> _____ Native soil <input checked="" type="checkbox"/> _____</p> <p>5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight. Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ 300 lbs. Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/> _____</p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ lb</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. Sidley # 5 Sand b. Volume added <u>100</u> lb</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/> _____</p> <p>10. Screen material: Schedule 40 PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> _____ b. Manufacturer <u>Monoflex</u> c. Slot size <u>0.010</u> in. d. Slotted length: <u>1.0</u> ft.</p> <p>11. Backfill material (below filler pack): None <input type="checkbox"/> 1 4 Natural collapse <input checked="" type="checkbox"/> _____</p>
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Signature Shannon & Wilson Firm Shannon & Wilson, Madison, Wisconsin

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Facility/Project Name DB Oak -Fort Atkinson, Wisconsin	County Name Jefferson	Well Name MW-10
Facility License, Permit or Monitoring Number _____	County Code 2 8	Wis. Unique Well Number _____
		DNR Well Number _____

1. Can this well be purged dry? Yes No

2. Well development method
 - surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailer only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other _____

3. Time spent developing well _____ 2 4 0 min.

4. Depth of well (from top of well casing) _____ 2 0 . 5 ft.

5. Inside diameter of well _____ 2 . 0 6 in.

6. Volume of waters in filter pack and well casing _____ 8 . 0 gal.

7. Volume of water removed from well _____ 8 0 . 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>5 . 3 2</u> ft.	_____ <u>3 . 6 3</u> ft.
Date	b. <u>0 3 / 3 0 / 1 6</u> m m d d y y	<u>0 3 / 3 1 / 1 6</u> m m d d y y
Time	c. _____ <input checked="" type="checkbox"/> a.m. <u>1 0 : 0 0</u> <input type="checkbox"/> p.m.	_____ <input checked="" type="checkbox"/> a.m. <u>1 1 : 4 5</u> <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ . ____ inches	_____ . ____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>Light brown,</u> <u>no odor, very</u> <u>Turbid with</u> <u>Sediment.</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u>Light brown,</u> <u>no odor, slight</u> <u>to moderate</u> <u>Turbidity.</u>
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. Additional comments on development:

Surged and purged dry 8 time removing 40 gallons on 03/30/16 – 135 minutes (1620 to 1825).
Surged and purged dry 7 time removing 40 gallons on 03/31/16 – 105 minutes (1000 to 1145).

Well developed by: Person's Name and Firm

Name: Mark McColloch

Firm: Shannon & Wilson, Madison, WI

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

Signature:

Print Initials: M S M

Firm: Shannon & Wilson, Madison, Wisconsin

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name DB Oak -Fort Atkinson, Wisconsin	County Name Jefferson	Well Name MW-10A
Facility License, Permit or Monitoring Number _____	County Code 2 8	Wis. Unique Well Number _____
		DNR Well Number _____

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailer only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other _____
3. Time spent developing well _____ 2 2 5 min.
4. Depth of well (from top of well casing) _____ 4 5 . 4 ft.
5. Inside diameter of well _____ 2 . 0 6 in.
6. Volume of waters in filter pack and well casing _____ 8 . 0 gal.
7. Volume of water removed from well _____ 8 2 . 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. _____ 8 . 5 9 ft.	_____ 8 . 5 4 ft.
Date	b. <u>0 3</u> / <u>3 0</u> / <u>1 6</u> m m d d y y	<u>0 3</u> / <u>3 1</u> / <u>1 6</u> m m d d y y
Time	c. _____ a.m. _____ p.m.	_____ a.m. _____ p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>Light brown,</u> <u>no odor, very</u> <u>Turbid with</u> <u>Sediment.</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u>Light brown,</u> <u>no odor, slight</u> <u>to moderate</u> <u>Turbidity.</u>
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. Additional comments on development:

Surged and pumped dry four time removing 30 gallons on 03/30/16 – 85 minutes (1720 to 1845).
Surged and pumped dry six times removing 33 gallons on 03/31/16 – 120 minutes (1010 to 1210).
Bailed dry four times removing 19 gallons on 03/31/16 - 20 minutes (1225 to 1500).

Well developed by: Person's Name and Firm Name: <u>Mark McColloch</u> Firm: <u>Shannon & Wilson, Madison, WI</u>	I hereby certify that the above information is true and correct to the best of my knowledge. Signature: <u></u> Print Initials: <u>M S M</u> Firm: <u>Shannon & Wilson, Madison, Wisconsin</u>
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NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name DB Oak -Fort Atkinson, Wisconsin	County Name Jefferson	Well Name MW-11
Facility License, Permit or Monitoring Number _____	County Code 2 8	Wis. Unique Well Number _____
		DNR Well Number _____

1. Can this well be purged dry? Yes No

2. Well development method
 - surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailer only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other _____

3. Time spent developing well _____ 9 0 min.

4. Depth of well (from top of well casing) _____ 1 9 . 6 ft.

5. Inside diameter of well _____ 2 . 0 6 in.

6. Volume of waters in filter pack and well casing _____ 1 0 . 0 gal.

7. Volume of water removed from well _____ 1 0 4 . 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. _____ 7 . 0 0 ft.	_____ 1 0 . 0 5 ft.
Date	b. <u>0 3</u> / <u>3 0</u> / <u>1 6</u> m m d d y y	<u>0 3</u> / <u>3 0</u> / <u>1 6</u> m m d d y y
Time	c. _____ a.m. _____ 1 3 : 5 5 <input checked="" type="checkbox"/> p.m.	_____ a.m. _____ 1 5 : 4 0 <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ . _____ inches	_____ . _____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>Light brown,</u> <u>no odor, very</u> <u>Turbid with</u> <u>Sediment.</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u>Light brown,</u> <u>no odor, slight</u> <u>to moderate</u> <u>Turbidity.</u>
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. Additional comments on development:

Surged an purged 10 gallons with a bailer – 10 minutes. (135 to 1405).
Surged and pumped 94 – 85 minutes (1405 to 1540).

Well developed by: Person's Name and Firm

Name: Mark McColloch

Firm: Shannon & Wilson, Madison, WI

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

Signature: *Mark S. McColloch*

Print Initials: M S M

Firm: Shannon & Wilson, Madison, Wisconsin

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name DB Oak -Fort Atkinson, Wisconsin	County Name Jefferson	Well Name MW-12
Facility License, Permit or Monitoring Number _____	County Code 2 8	Wis. Unique Well Number _____
		DNR Well Number _____

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailer only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other _____
3. Time spent developing well _____ 6 . 0 min.
4. Depth of well (from top of well casing) _____ 1 9 . 6 ft.
5. Inside diameter of well _____ 2 . 0 6 in.
6. Volume of waters in filter pack and well casing _____ 8 . 0 gal.
7. Volume of water removed from well _____ 8 5 . 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>1</u> <u>1</u> . <u>8</u> <u>1</u> ft.	_____ <u>1</u> <u>1</u> . <u>8</u> <u>1</u> ft.
Date	b. <u>0</u> <u>3</u> / <u>3</u> <u>1</u> / <u>1</u> <u>6</u> m m d d y y	<u>0</u> <u>3</u> / <u>3</u> <u>1</u> / <u>1</u> <u>6</u> m m d d y y
Time	c. _____ <input type="checkbox"/> a.m. <u>1</u> <u>5</u> : <u>1</u> <u>5</u> <input checked="" type="checkbox"/> p.m.	_____ <input type="checkbox"/> a.m. <u>1</u> <u>7</u> : <u>2</u> <u>0</u> <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ . _____ inches	_____ . _____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>Light brown,</u> <u>no odor, very</u> <u>Turbid with</u> <u>Sediment.</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u>Light brown,</u> <u>no odor, slight</u> <u>turbidity.</u>
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. Additional comments on development:

Surged an purged 10 gallons with a bailer – 15 minutes. (1515 to 1530).
Surged and pumped 75 gallons – 45 minutes (1635 to 1720).

Well developed by: Person's Name and Firm	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: <u>Mark McColloch</u>	
Firm: <u>Shannon & Wilson, Madison, WI</u>	
Signature: _____ Print Initials: <u>M S M</u> Firm: <u>Shannon & Wilson, Madison, Wisconsin</u>	

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name DB Oak -Fort Atkinson, Wisconsin	County Name Jefferson	Well Name MW-12A
Facility License, Permit or Monitoring Number _____	County Code 2 8	Wis. Unique Well Number _____
		DNR Well Number _____

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailer only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other _____
3. Time spent developing well _____ 5 0 min.
4. Depth of well (from top of well casing) _____ 4 5 . 1 ft.
5. Inside diameter of well _____ 2 . 0 6 in.
6. Volume of waters in filter pack and well casing _____ 8 . 0 gal.
7. Volume of water removed from well _____ 8 0 . 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. _____ 1 1 . 6 3 ft.	_____ 1 1 . 6 3 ft.
Date	b. _____ 0 3 / _____ 3 1 / _____ 1 6 m m d d y y	_____ 0 3 / _____ 3 1 / _____ 1 6 m m d d y y
Time	c. _____ 1 5 : _____ 1 0 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	_____ 1 6 : _____ 0 0 <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"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) _____ Light brown, _____ no odor, very _____ Turbid with _____ Sediment.	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) _____ Light brown, _____ no odor, slight _____ turbidity.
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. Additional comments on development:
 Surged and pumped 80 gallons – 50 minutes (1510 to 1600).

Well developed by: Person's Name and Firm

Name: Mark McColloch

Firm: Shannon & Wilson, Madison, WI

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

Signature: *Mark S. McColloch*

Print Initials: M S M

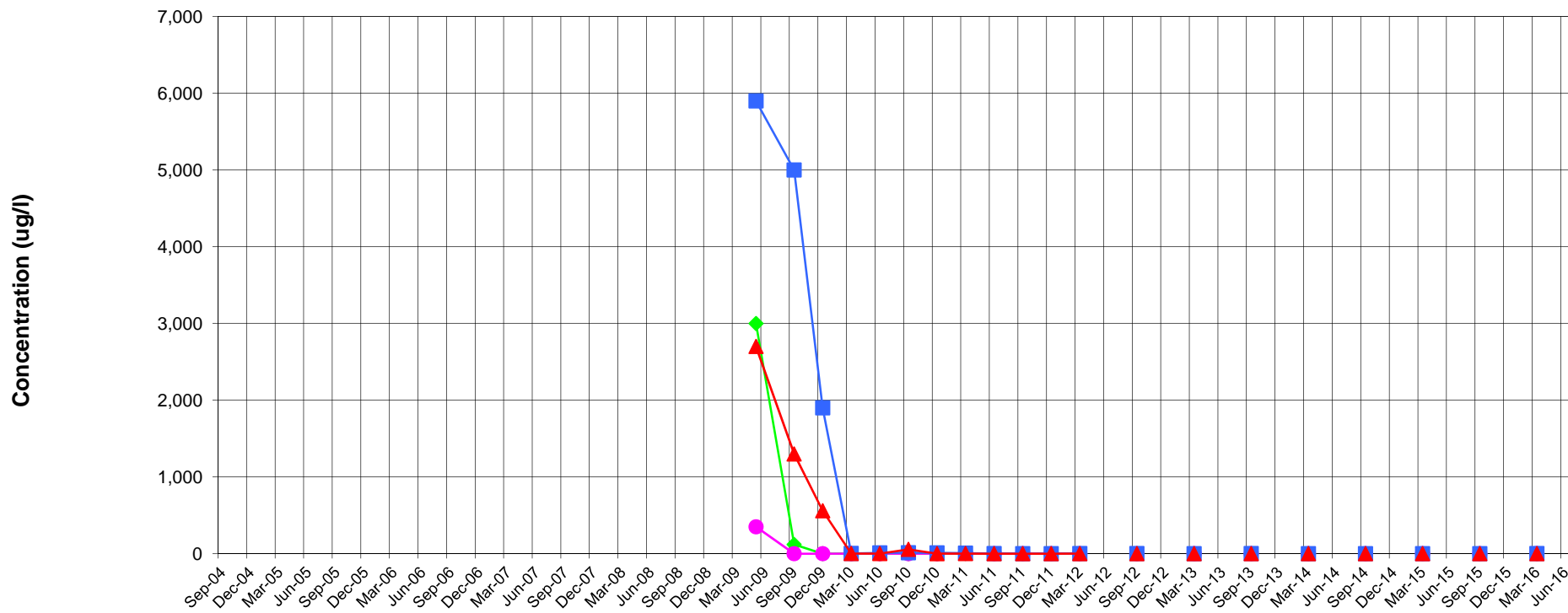
Firm: Shannon & Wilson, Madison, Wisconsin

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Appendix H

Time Verses Concentration Graphs for Groundwater

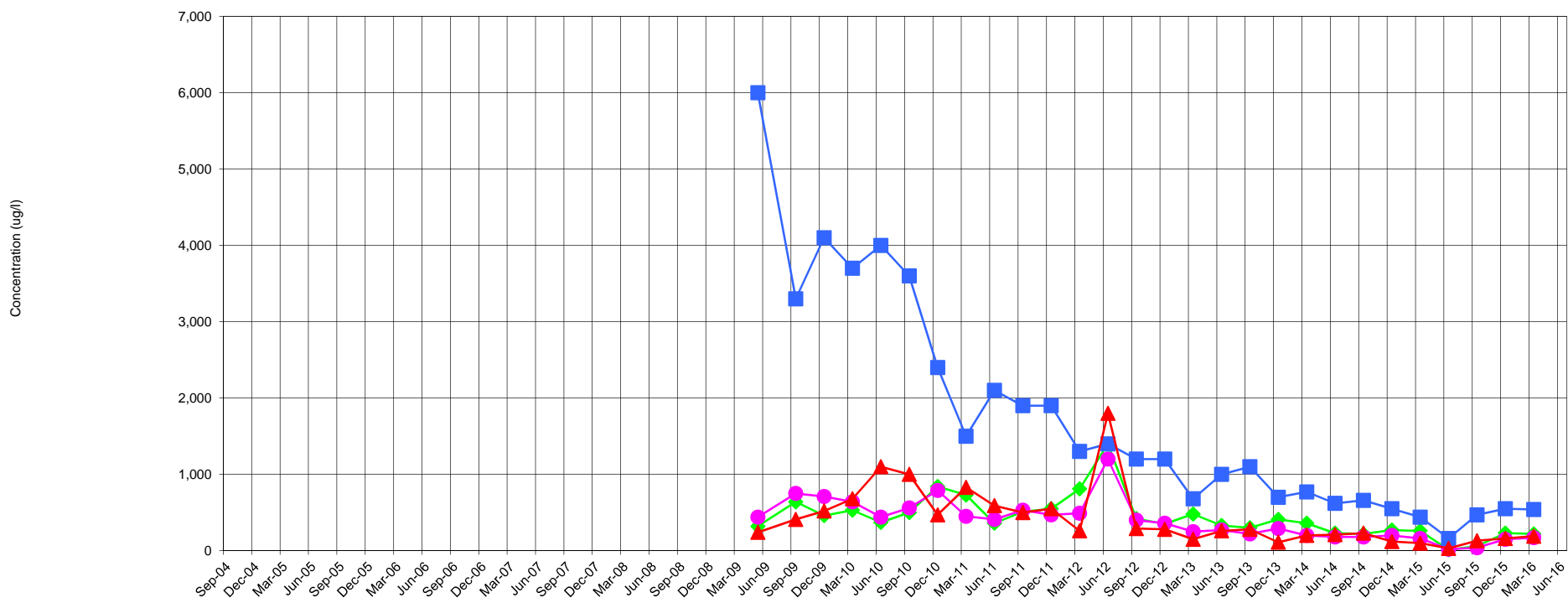
DB Oak Time vs. Concentration at TW-01



	May-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Mar-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Mar-14	Jun-14	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	Dec-15	Mar-16	
—◆— PCE	3,000	120	0	1.3	0.41	0	0.54	3.0	0.0	0.29	0.00	0.18		0.27	0.00			0.19	0.00		0.00		0.00		0.00		0.00		0.88
—●— TCE	350	0	0	0.91	0.18	0	0.61	5.6	0	0	0.64	0.30		0		0		0		0.74		0		0		0		2.0	
—■— cis-1,2-DCE	5,900	5,000	1,900	3.0	10	13	11	6.7	1.1	0.44	0.53	1.9		1.1		0.31		1.4		0.54		0.36		0.30		0.35		1.4	
—▲— Vinyl Chloride	2,700	1,300	560	1.1	1.6	56	0.66	1.6	0.0	0.0	0.0	0.84		0.44		0.00		0.24		0.00		0.00		0.00		0.86		0.69	

Date

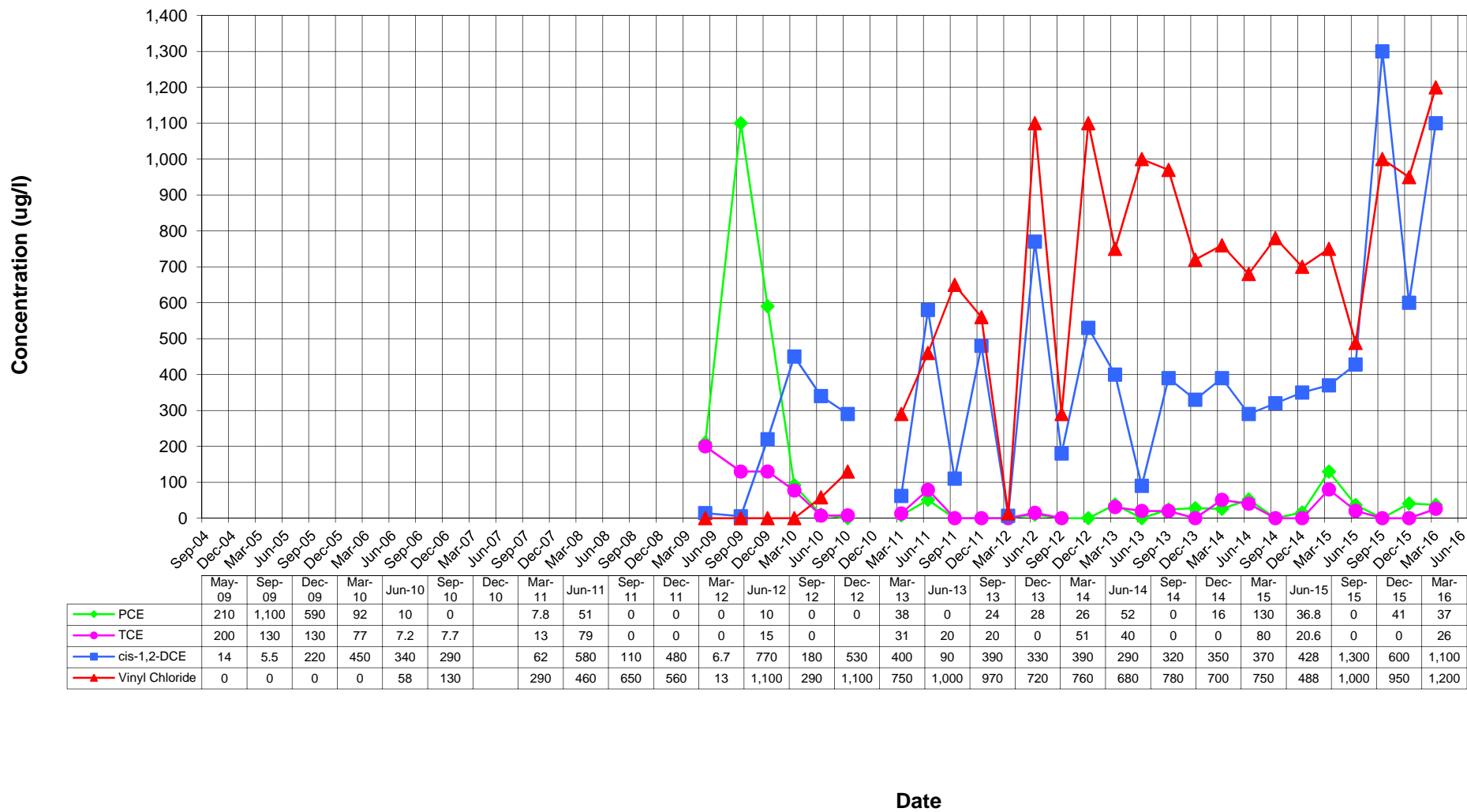
DB Oak Time vs. Concentration at TW-02



	May-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Mar-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Mar-14	Jun-14	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	Dec-15	Mar-16
—◆— PCE	320	640	460	530	370	500	840	730	360	510	550	810	1,400	420	350	480	330	300	410	360	230	220	270	260	12	60	230	220
—●— TCE	440	750	710	640	440	560	790	450	410	530	470	490	1,200	400	360	250	270	220	290	200	180	180	200	160	19	39	150	170
—■— cis-1,2-DCE	6,000	3,300	4,100	3,700	4,000	3,600	2,400	1,500	2,100	1,900	1,900	1,300	1,400	1,200	1,200	680	1,000	1,100	700	770	620	660	550	440	160	470	550	540
—▲— Vinyl Chloride	240	410	520	680	1,100	1,000	470	830	590	500	550	260	1,800	290	280	150	260	280	110	200	210	230	120	99	30	130	160	190

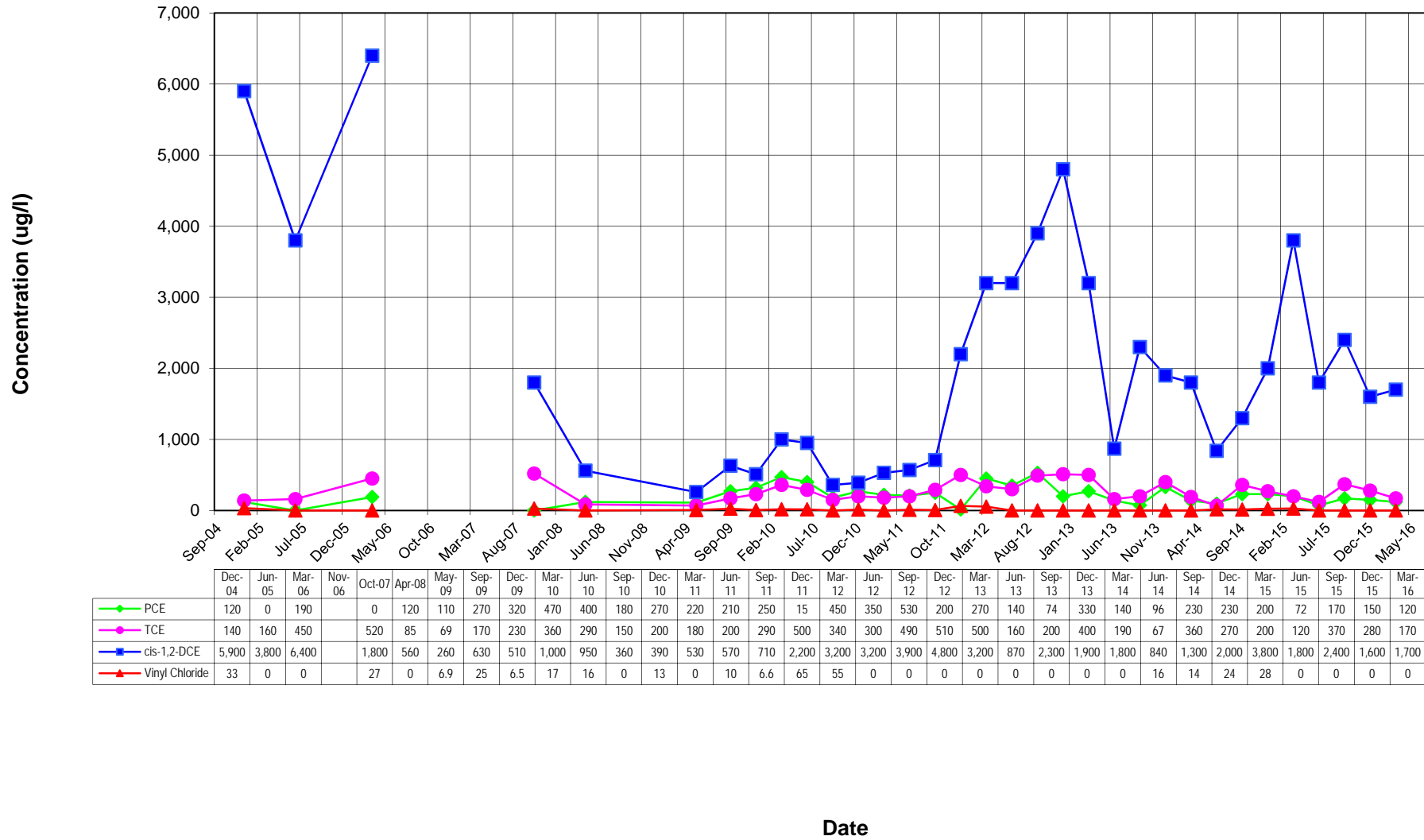
Date

DB Oak Time vs. Concentration at TW-03

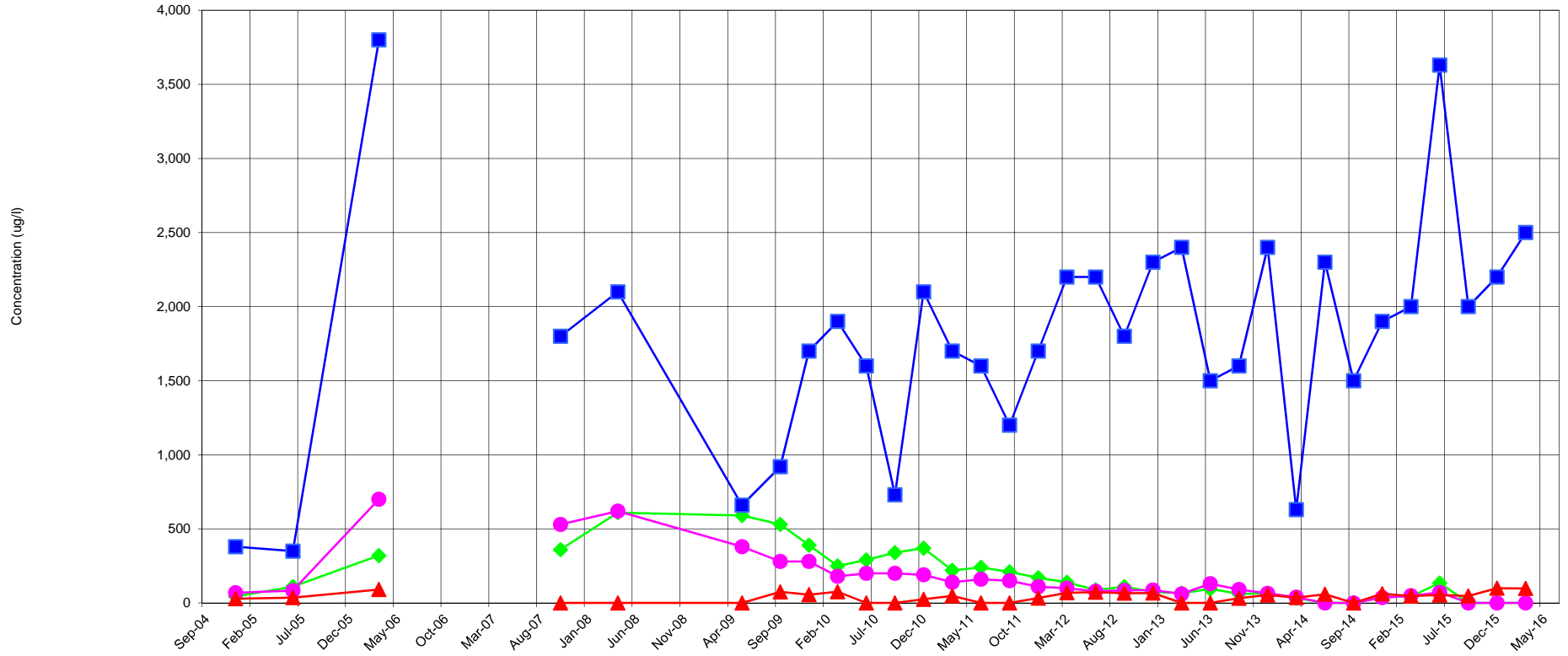


	May-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Mar-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Mar-14	Jun-14	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	Dec-15	Mar-16
PCE	210	1,100	590	92	10	0		7.8	51	0	0	0	10	0		38	0	24	28	26	52	0	16	130	36.8	0	41	37
TCE	200	130	130	77	7.2	7.7		13	79	0	0	0	15	0		31	20	20	0	51	40	0	0	80	20.6	0	0	26
cis-1,2-DCE	14	5.5	220	450	340	290		62	580	110	480	6.7	770	180	530	400	90	390	330	390	290	320	350	370	428	1,300	600	1,100
Vinyl Chloride	0	0	0	0	58	130		290	460	650	560	13	1,100	290	1,100	750	1,000	970	720	760	680	780	700	750	488	1,000	950	1,200

DB Oak Time vs. Concentration at MW-2



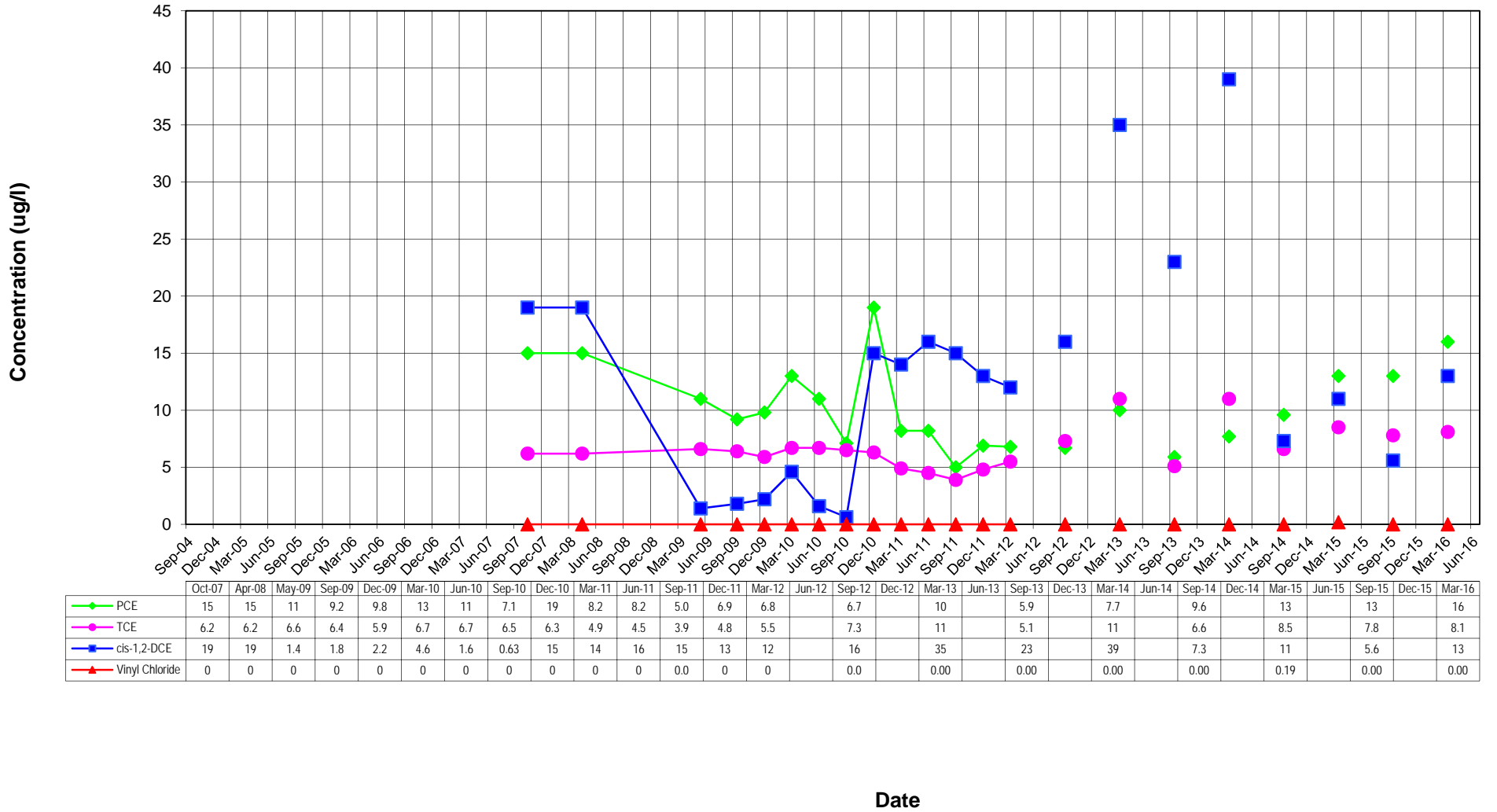
DB Oak Time vs. Concentration at MW-2A



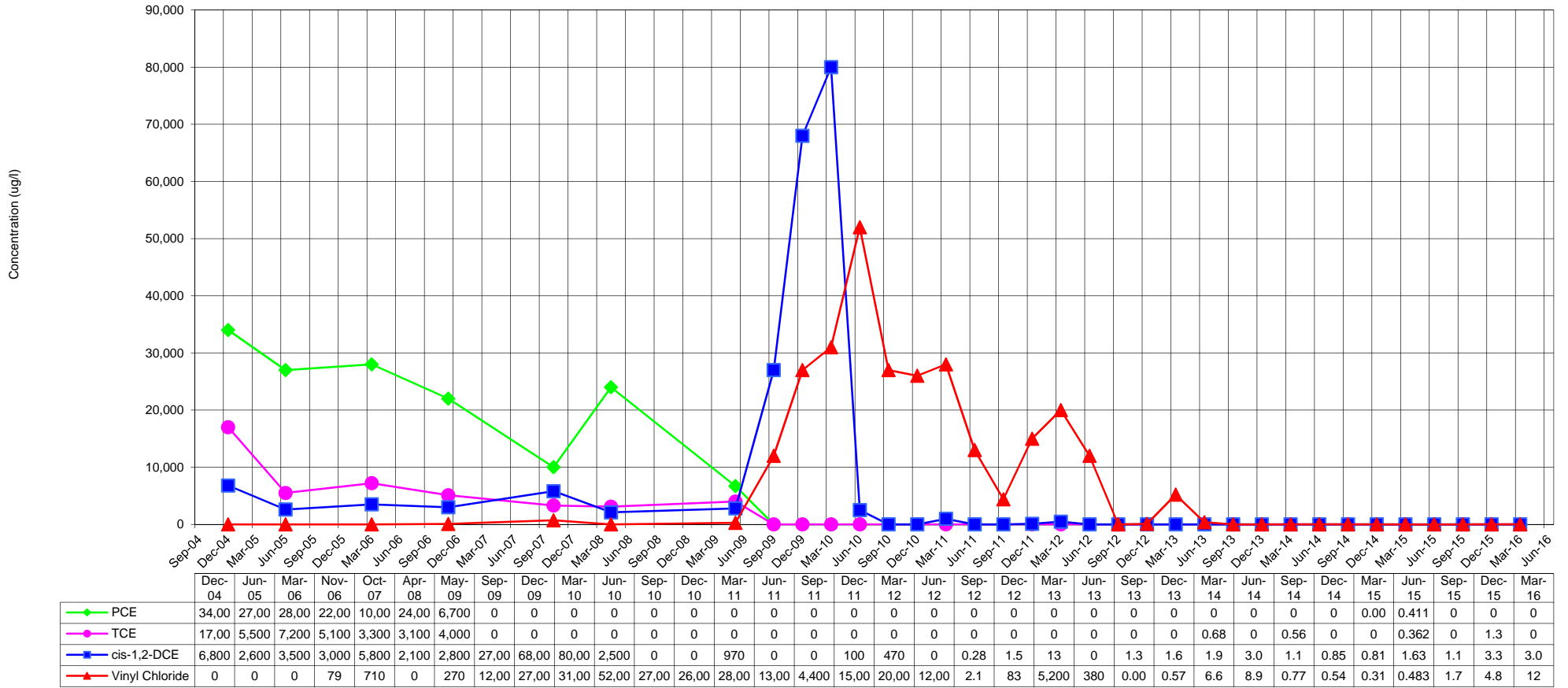
	Dec-04	Jun-05	Mar-06	Nov-06	Oct-07	Apr-08	May-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Mar-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Mar-14	Jun-14	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	Dec-15	Mar-16
—◆— PCE	44	110	320		360	610	590	530	390	250	290	340	370	220	240	210	170	140	88	110	74	66	94	62	65	33	0	0	42	44	135	0	0	0
—●— TCE	69	83	700		530	620	380	280	280	180	200	200	190	140	160	150	110	100	79	85	87	61	130	91	65	39	0	0	36	49	71	0	0	0
—■— cis-1,2-DCE	380	350	3,800		1,800	2,100	660	920	1,700	1,900	1,600	730	2,100	1,700	1,600	1,200	1,700	2,200	2,200	1,800	2,300	2,400	1,500	1,600	2,400	630	2,300	1,500	1,900	2,000	3,630	2,000	2,200	2,500
—▲— Vinyl Chloride	29	36	91		0	0	0	75	56	76	0	0	25	48	0	0	33	69	73	66	67	0	0	32	54	36	59	0	62	47	53.9	47	100	98

Date

DB Oak Time vs. Concentration at MW-2B

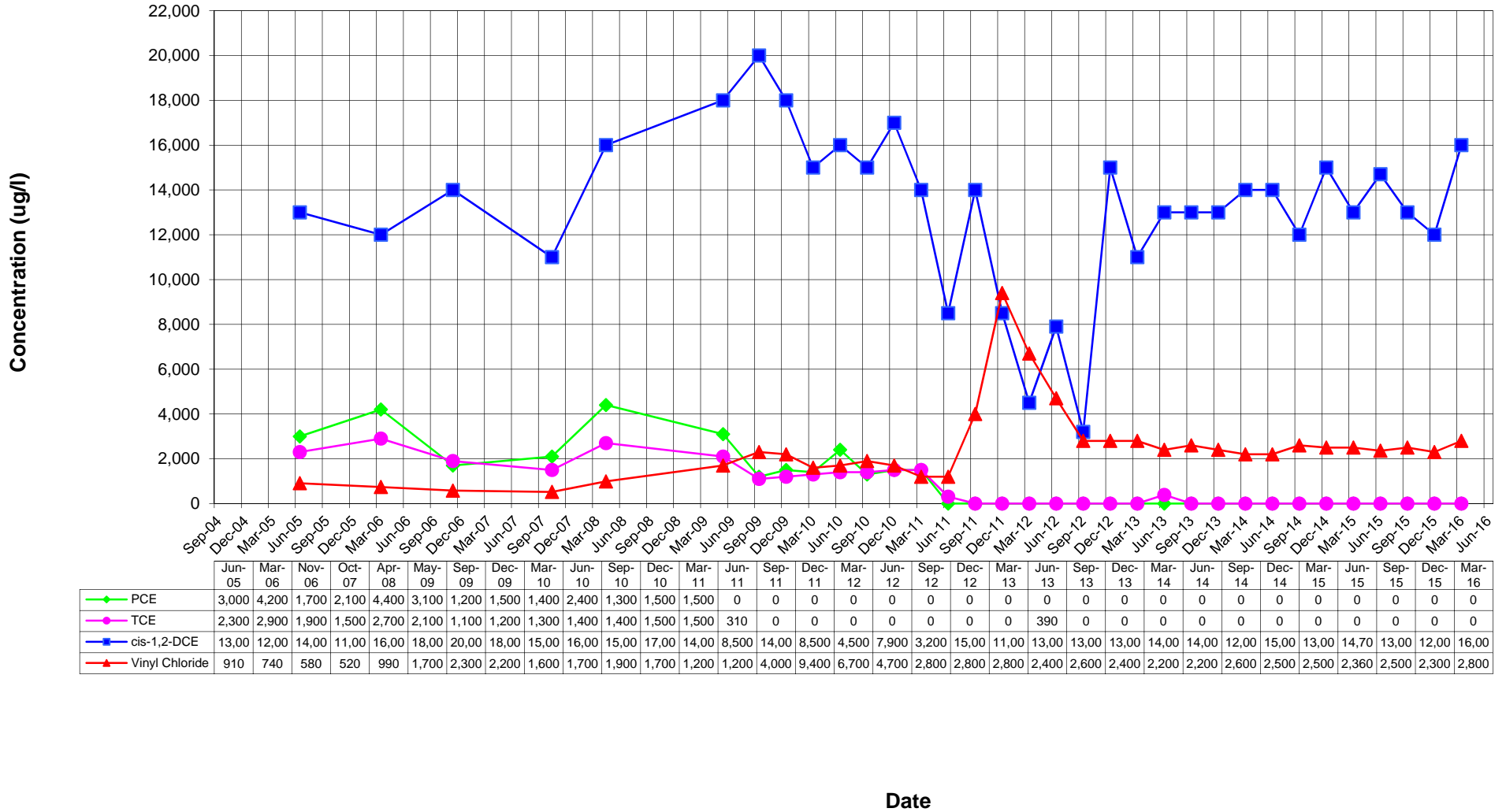


DB Oak Time vs. Concentration at MW-3

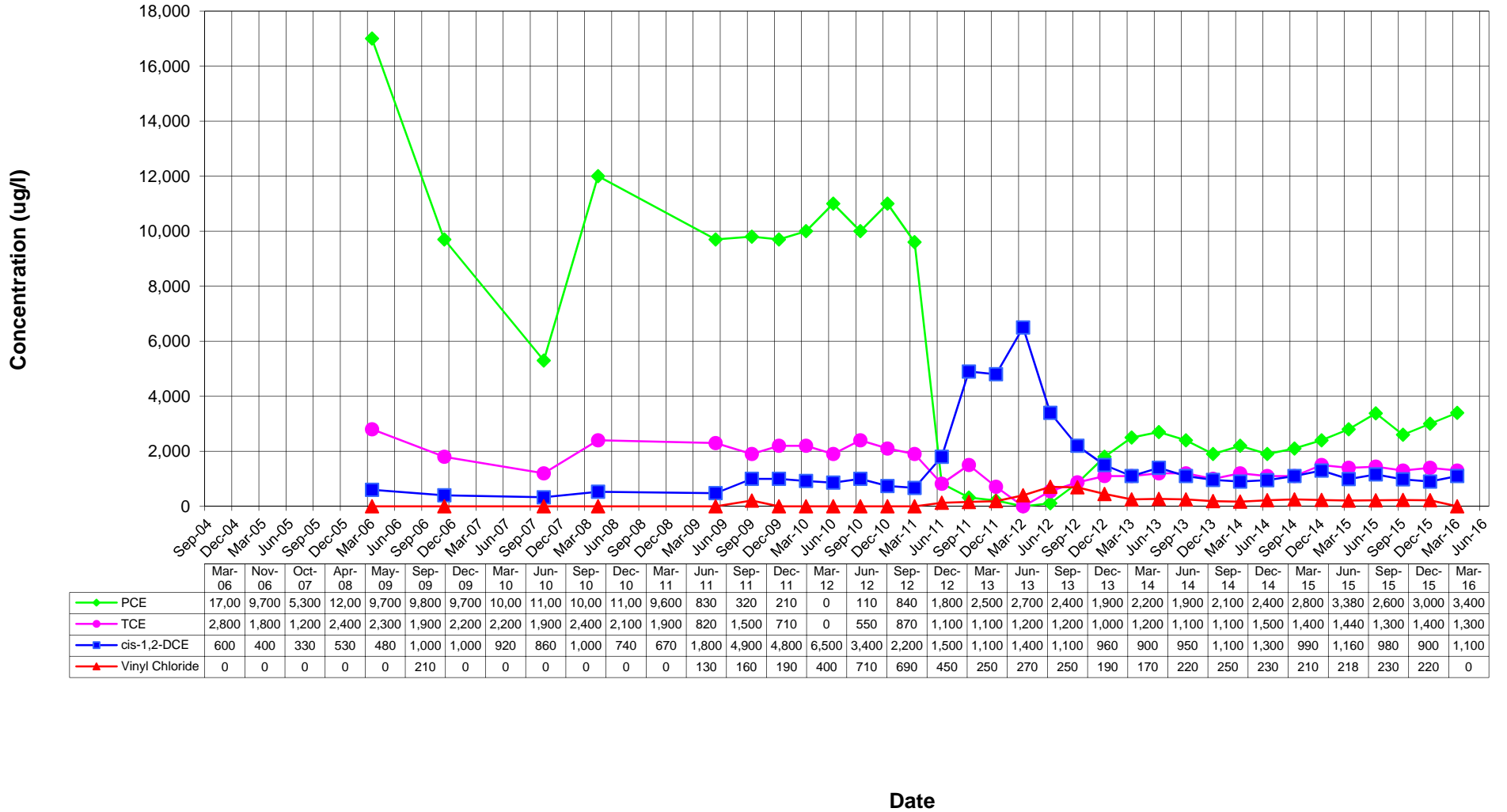


Date

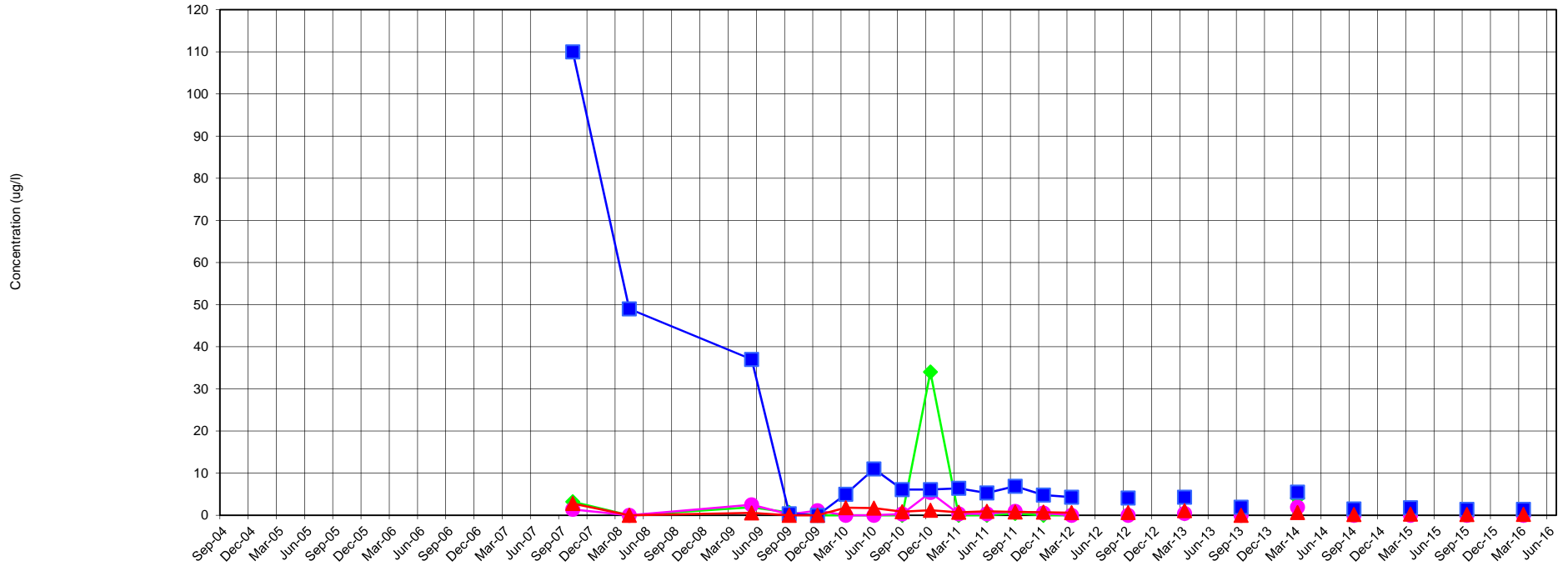
DB Oak Time vs. Concentration at MW-3A



DB Oak Time vs. Concentration at MW-3B



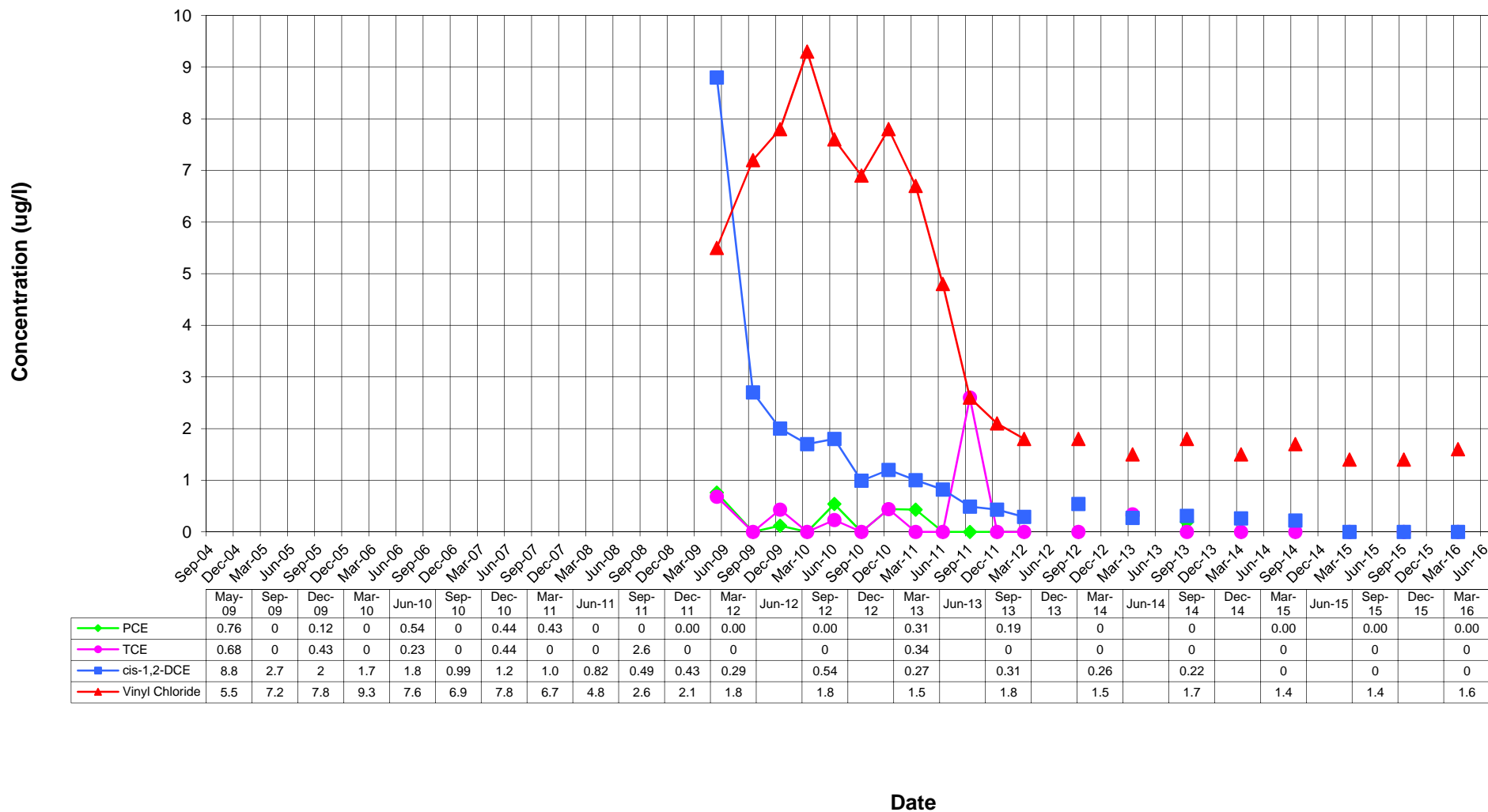
DB Oak Time vs. Concentration at MW-3C



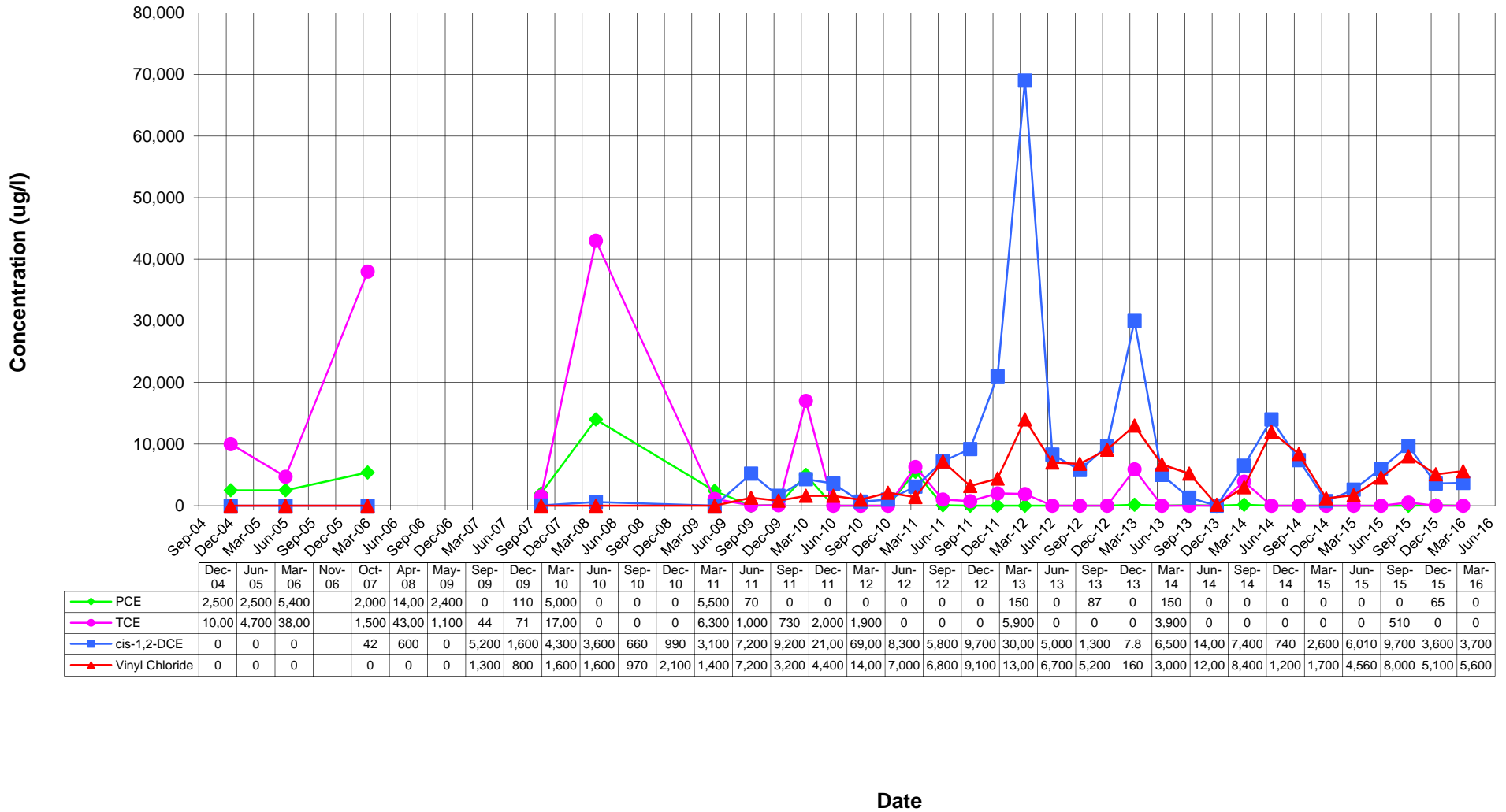
	Oct-07	Apr-08	May-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Mar-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Mar-14	Jun-14	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	Dec-15	Mar-16
PCE	3.2	0	1.9	0.68	0	0	0	0	34	0	0	0.44	0	0	0	0	0	0.35	0	0	0	4.1	0	0	0.00	0.00	0.00	0.00	0.00	0.00
TCE	1.4	0	2.5	0.22	1.1	0	0	0.31	5.4	0.34	0.34	0.94	0.53	0	0	0	0	0.42	0	0	0	1.9	0	0	0	0	0	0	0	0
cis-1,2-DCE	110	49	37	0.35	0	5.0	11	6.1	6.1	6.4	5.3	6.9	4.8	4.3	11	6.1	4.1	4.3	1.9	1.9	5.5	1.5	1.5	1.8	1.8	1.4	1.4	1.4	1.4	1.4
Vinyl Chloride	2.8	0	0.57	0	0	1.8	1.7	0.85	1.2	0.71	0.95	0.79	0.73	0.61	0	0.66	1.1	0.00	0.00	0.00	0.66	0.19	0.26	0.26	0.18	0.18	0.18	0.18	0.20	0.20

Date

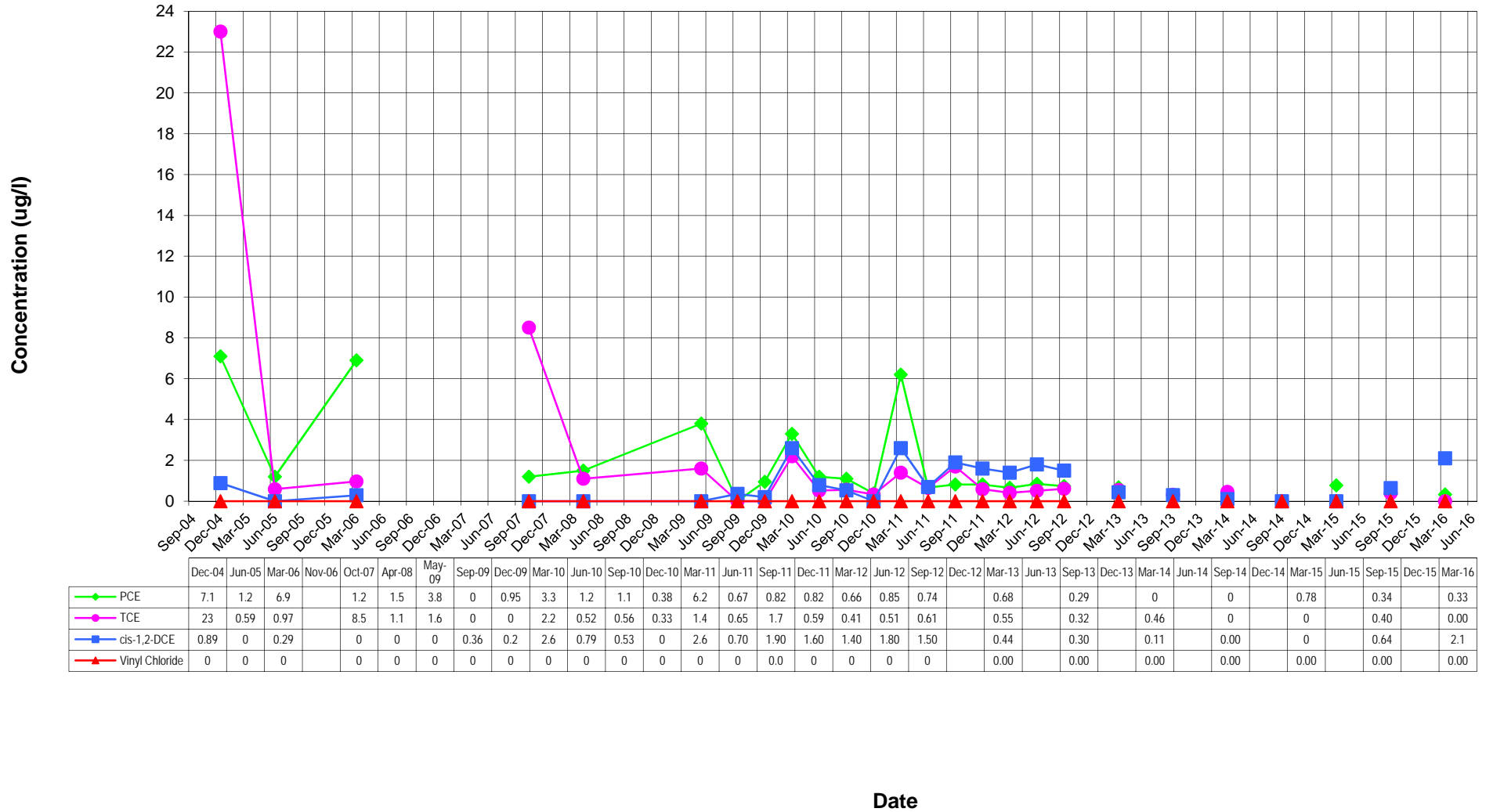
DB Oak Time vs. Concentration at IW-01



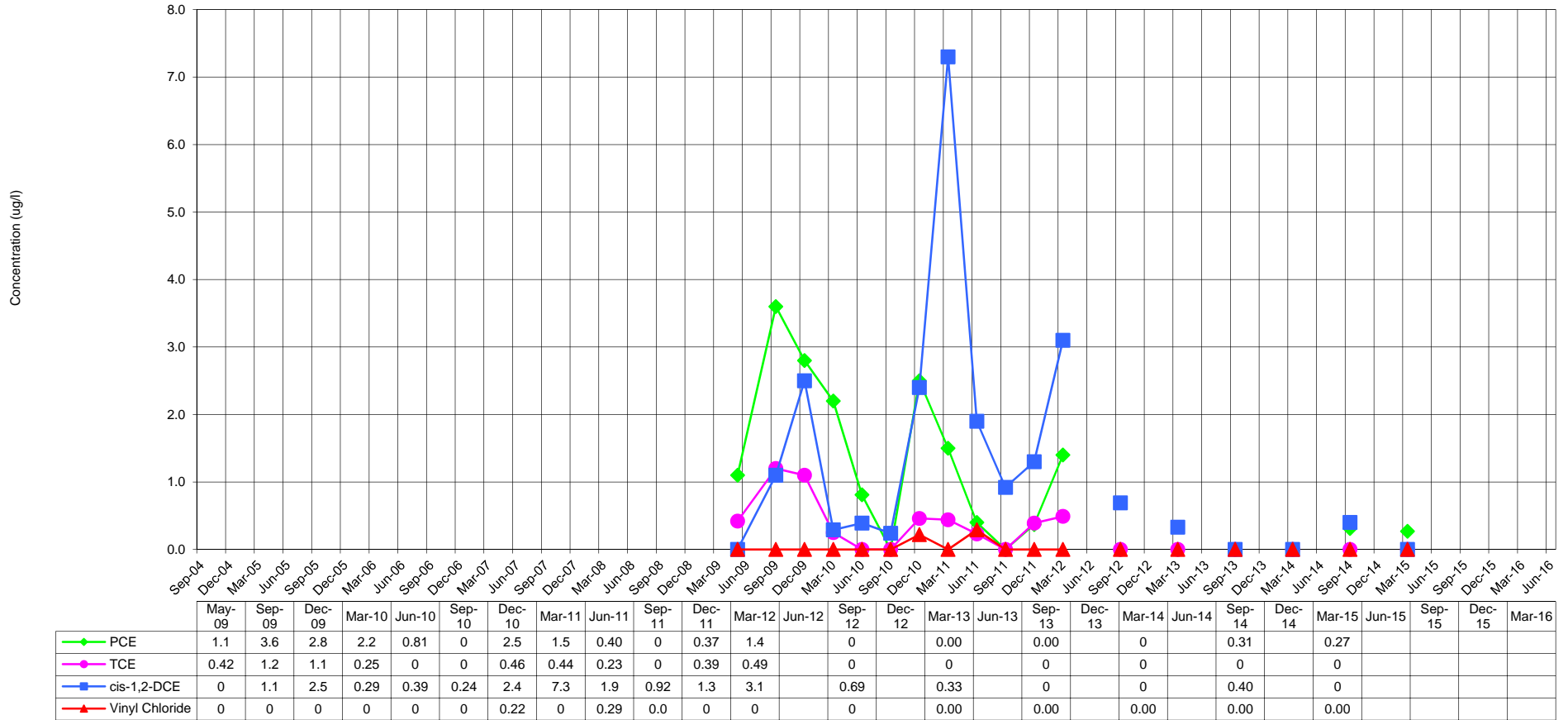
DB Oak Time vs. Concentration at MW-4



DB Oak Time vs. Concentration at MW-4A

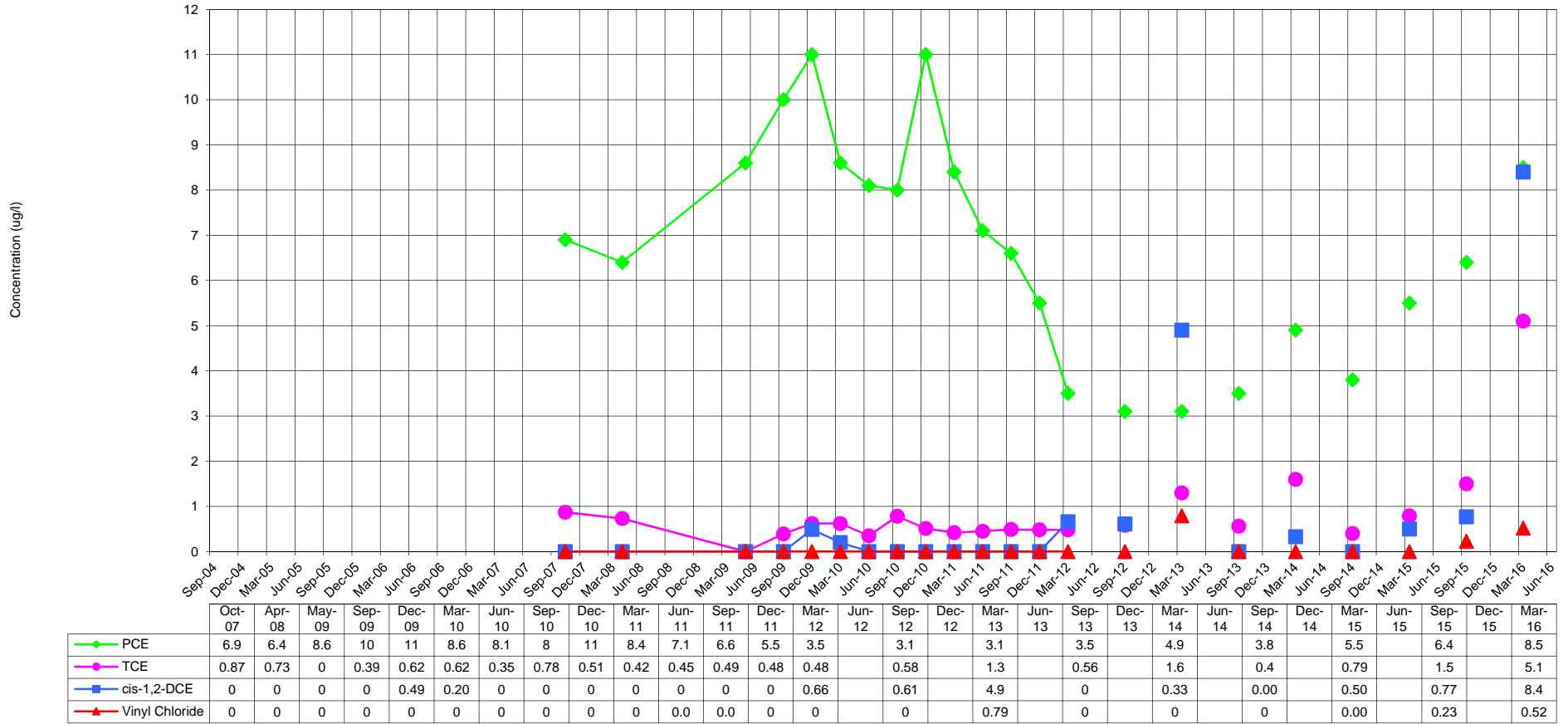


DB Oak Time vs. Concentration at MW-4B



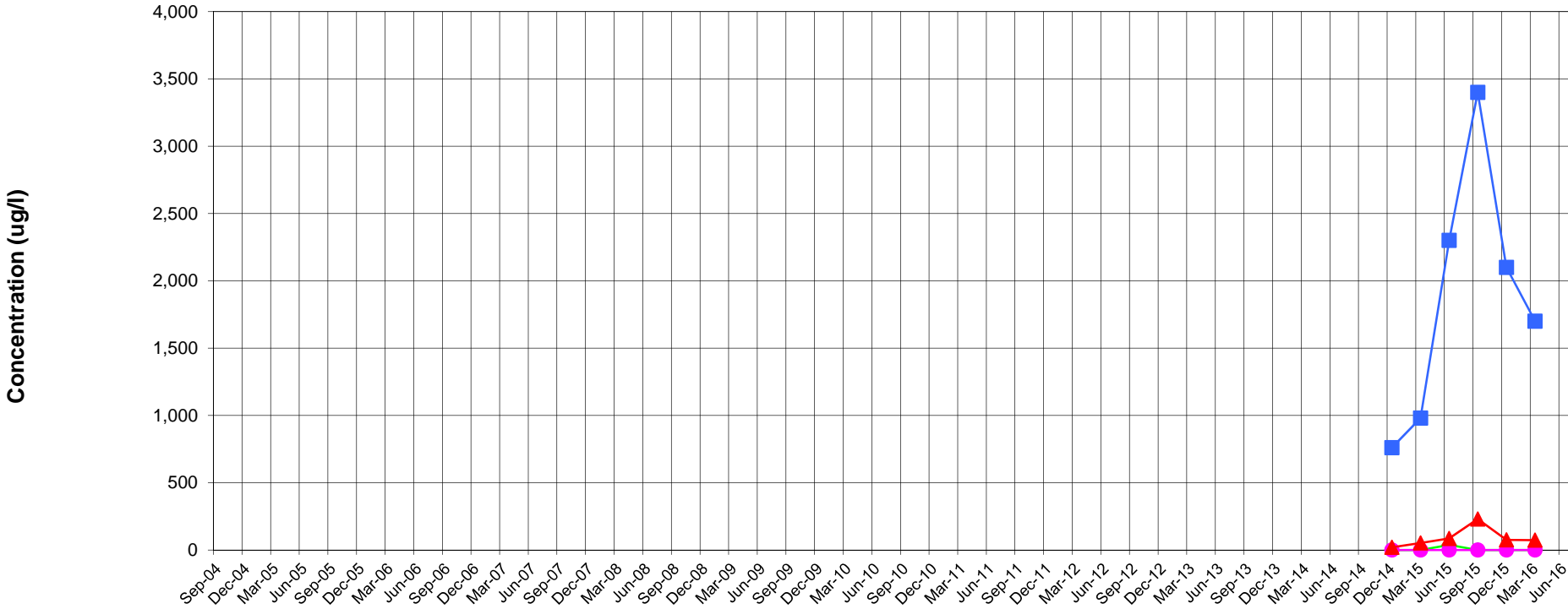
Date

DB Oak Time vs. Concentration at MW-7B



Date

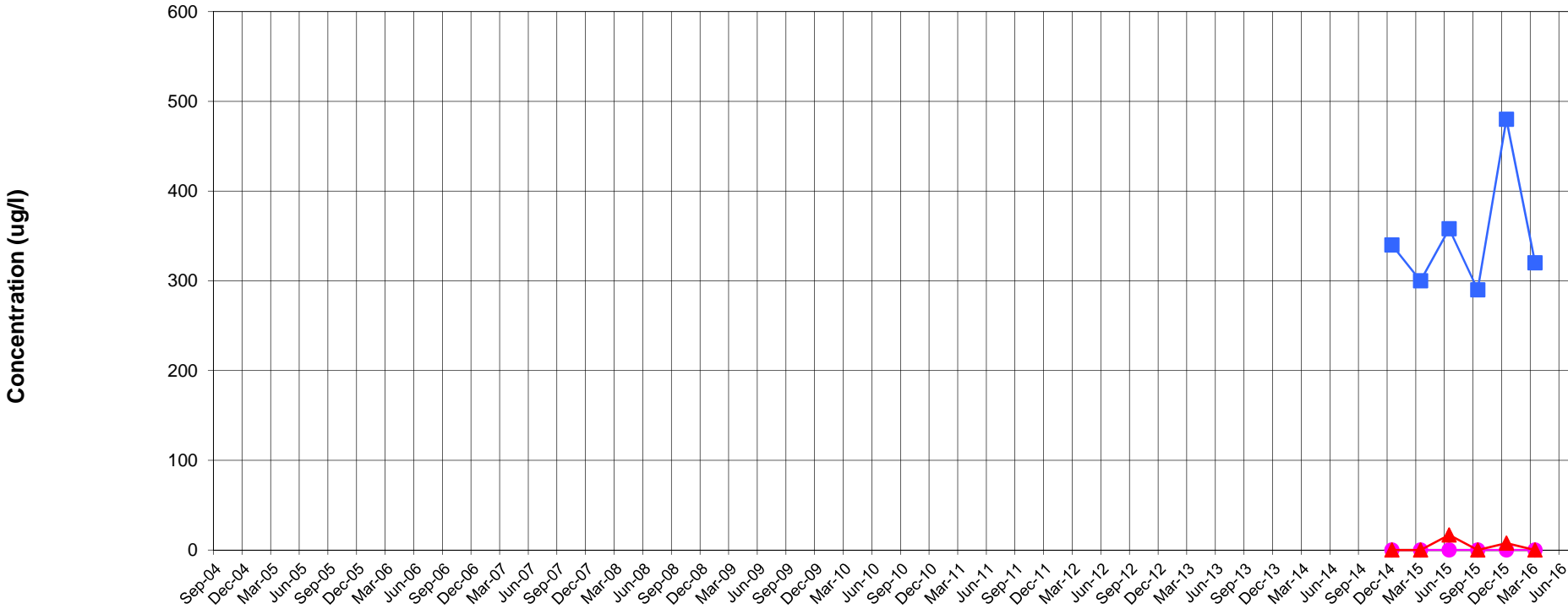
DB Oak Time vs. Concentration at MW-9



	May-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Mar-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Mar-14	Jun-14	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	Dec-15	Mar-16	
PCE																							0	0	37.7	0	0	0	
TCE																								0	0	0	0	0	0
cis-1,2-DCE																							760	980	2,300	3,400	2,100	1,700	
Vinyl Chloride																							20	52	85.6	230	75	73	

Date

DB Oak Time vs. Concentration at MW-9A



—◆— PCE																														
—◆— TCE																														
—■— cis-1,2-DCE																														
—▲— Vinyl Chloride																														

Date

Appendix I

Laboratory Reports Monthly SVE Effluent Samples May 2015 through May 2016

May 21, 2015

Mr. Mark McColloch
Shannon & Wilson, Inc.
2110 Luann Lane
Suite 101
Madison, WI 53713

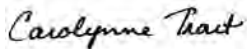
RE: Project: 42-1-37320-002 DB Oak
Pace Project No.: 10305766

Dear Mr. McColloch:

Enclosed are the analytical results for sample(s) received by the laboratory on May 11, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10305766

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 42-1-37320-002 DB Oak
Pace Project No.: 10305766

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10305766001	Effluent.May 15	Air	05/08/15 10:05	05/11/15 10:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10305766

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10305766001	Effluent.May 15	TO-15	MJL	5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10305766

Sample: Effluent.May 15 **Lab ID: 10305766001** Collected: 05/08/15 10:05 Received: 05/11/15 10:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient		Analytical Method: TO-15							
cis-1,2-Dichloroethene	629	ug/m3	21.7	6.6	26.8		05/19/15 13:05	156-59-2	
trans-1,2-Dichloroethene	19.4J	ug/m3	21.7	10.3	26.8		05/19/15 13:05	156-60-5	
Tetrachloroethene	3310	ug/m3	18.5	7.5	26.8		05/19/15 13:05	127-18-4	
Trichloroethene	520	ug/m3	14.7	7.4	26.8		05/19/15 13:05	79-01-6	
Vinyl chloride	50.6	ug/m3	7.0	5.2	26.8		05/19/15 13:05	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10305766

QC Batch: AIR/23272

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR - AMBIENT

Associated Lab Samples: 10305766001

METHOD BLANK: 1969833

Matrix: Air

Associated Lab Samples: 10305766001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	05/19/15 12:39	
Tetrachloroethene	ug/m3	<0.28	0.69	05/19/15 12:39	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	05/19/15 12:39	
Trichloroethene	ug/m3	<0.28	0.55	05/19/15 12:39	
Vinyl chloride	ug/m3	<0.20	0.26	05/19/15 12:39	

LABORATORY CONTROL SAMPLE: 1969834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	40.5	100	64-137	
Tetrachloroethene	ug/m3	69	70.8	103	66-137	
trans-1,2-Dichloroethene	ug/m3	40.3	41.2	102	61-140	
Trichloroethene	ug/m3	54.6	56.2	103	70-134	
Vinyl chloride	ug/m3	26	26.6	102	72-129	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10305766

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10305766

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10305766001	Effluent.May 15	TO-15	AIR/23272		

REPORT OF LABORATORY ANALYSIS

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10505766



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: <u>SHANNON F WILSON</u> Address: <u>2110 LAKWOOD LANE</u> Email To: <u>MADISON, CUE SB AT</u> Phone: <u>608/442-5203</u> Fax: <u>608/442-9013</u> Requested Due Date/TAT: _____		Section B Required Project Information: Report To: <u>MARK MCGILLOCH</u> Copy To: _____ Purchase Order No.: _____ Project Name: <u>DB CAK</u> Project Number: <u>42-1-37320-002</u>		Section C Invoice Information: Attention: _____ Company Name: <u>SAME</u> Address: _____ Pace Quote Reference: _____ Pace Project Manager/Sales Rep. _____ Pace Profile #: _____		Page: <u>29594</u> of _____	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		COLLECTED MEDIA CODE: <u>6LC</u> PID Reading (Client only): _____ Valid Media Codes: MEDIA CODE Tearable Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Purif LVP High Volume Purif HVP Other PM10		Summa Can Number: <u>1566</u> Flow Control Number: _____		Method: PM10 _____ SC-Fixed Gas (%) _____ TO-3M (Methane) _____ TO-4 (PCBS) _____ TO-13 (PAH) _____ TO-14 _____ TO-15 _____ TO-15 Short List* _____	
ITEM #		DATE	TIME	DATE	TIME	DATE	TIME
1	<u>EFFLUENT - MAY 15</u>	<u>05/08</u>	<u>1000</u>	<u>05/08</u>	<u>1005</u>	<u>05/08</u>	<u>1200</u>
2						<u>05/08</u>	<u>5115</u>
3							<u>1030</u>
4							
5							
6							
7							
8							
9							
10							
11							
12							

Comments:

RELINQUISHED BY / AFFILIATION: Mark S. McGillich DATE: 05/08 TIME: 1200

ACCEPTED BY / AFFILIATION: FRANK PACE DATE: 05/08 TIME: 5115

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE: _____
 PRINT Name of SAMPLER: MARK MCGILLOCH
 SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 05-08-15

ORIGINAL



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.09

Document Revised: 26Dec2013
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Shannon + Wilson

Project #:

WO# : 10305766



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

Tracking Number: 77356185 5189

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

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

Temp. (TO17 and TO13 samples only) (°C): 2 Corrected Temp (°C): 2 Thermom. Used: B88A912167504 72337080
Temp should be above freezing to 6°C Correction Factor: X B88A9132521491 180512447
Date & Initials of Person Examining Contents: 5/11/15

Type of ice Received Blue Wet None

			Comments:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		10.
Media: <u>air can</u>			11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		12.

Samples Received:					
Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
<u>Effluent</u>	<u>1566</u>				

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No
Person Contacted: _____ Date/Time: _____

Comments/Resolution: Analyte list per historical

Project Manager Review: comet Date: 5/12/15

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



Pace Analytical Services, Inc.
 1700 Elm Street – Suite 200
 Minneapolis, MN 55414
 Phone: 612.607.1700
 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
 Phone: (920)374-2034

Lab Project Number: 10305766
 Project Name: 42-1-37320-002 DB Oak

Lab Sample No: 10305766001
 Client Sample ID: Effluent.May 15

ProjSampleNum: 10305766001
 Matrix: Air

Date Collected: 05/08/15 10:05
 Date Received: 05/11/15 10:30

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	156	ppbv	5.4	26.8	05/19/15 13:05 MJL	156-59-2	
Tetrachloroethene	480	ppbv	2.7	26.8	05/19/15 13:05 MJL	127-18-4	
trans-1,2-Dichloroethene	4.8J	ppbv	5.4	26.8	05/19/15 13:05 MJL	156-60-5	
Trichloroethene	95.2	ppbv	2.7	26.8	05/19/15 13:05 MJL	79-01-6	
Vinyl chloride	19.5	ppbv	2.7	26.8	05/19/15 13:05 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
 Units Conversion Request



Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
Phone: (920)374-2034

Lab Project Number: 10305766
Project Name: 42-1-37320-002 DB Oak

PARAMETER FOOTNOTES

SUPPLEMENTAL REPORT
Units Conversion Request

June 09, 2015

Mr. Mark McColloch
Shannon & Wilson, Inc.
2110 Luann Lane
Suite 101
Madison, WI 53713

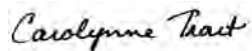
RE: Project: 42-1-37320-002 DB OAK
Pace Project No.: 10308819

Dear Mr. McColloch:

Enclosed are the analytical results for sample(s) received by the laboratory on June 04, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 42-1-37320-002 DB OAK
Pace Project No.: 10308819

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10308819

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10308819001	Effluent-Jun15	Air	06/03/15 09:22	06/04/15 10:31

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 42-1-37320-002 DB OAK
Pace Project No.: 10308819

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10308819001	Effluent-Jun15	TO-15	MJL	5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10308819

Sample: Effluent-Jun15 **Lab ID: 10308819001** Collected: 06/03/15 09:22 Received: 06/04/15 10:31 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient		Analytical Method: TO-15							
cis-1,2-Dichloroethene	535	ug/m3	22.5	6.8	27.8		06/05/15 19:34	156-59-2	
trans-1,2-Dichloroethene	14.6J	ug/m3	22.5	10.7	27.8		06/05/15 19:34	156-60-5	
Tetrachloroethene	2430	ug/m3	19.2	7.7	27.8		06/05/15 19:34	127-18-4	
Trichloroethene	543	ug/m3	15.3	7.7	27.8		06/05/15 19:34	79-01-6	
Vinyl chloride	37.8	ug/m3	7.2	5.4	27.8		06/05/15 19:34	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10308819

QC Batch:	AIR/23404	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	TO15 MSV AIR - AMBIENT
Associated Lab Samples:	10308819001		

METHOD BLANK: 1986307 Matrix: Air
Associated Lab Samples: 10308819001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	06/05/15 10:08	
Tetrachloroethene	ug/m3	<0.28	0.69	06/05/15 10:08	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	06/05/15 10:08	
Trichloroethene	ug/m3	<0.28	0.55	06/05/15 10:08	
Vinyl chloride	ug/m3	<0.20	0.26	06/05/15 10:08	

LABORATORY CONTROL SAMPLE: 1986308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	43.4	108	64-137	
Tetrachloroethene	ug/m3	69	70.4	102	66-137	
trans-1,2-Dichloroethene	ug/m3	40.3	41.9	104	61-140	
Trichloroethene	ug/m3	54.6	58.5	107	70-134	
Vinyl chloride	ug/m3	26	29.0	112	72-129	

SAMPLE DUPLICATE: 1987051

Parameter	Units	10308819001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	535	632	17	25	
Tetrachloroethene	ug/m3	2430	3000	21	25	
trans-1,2-Dichloroethene	ug/m3	14.6J	20.2J		25	
Trichloroethene	ug/m3	543	628	15	25	
Vinyl chloride	ug/m3	37.8	45.8	19	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10308819

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10308819001

[1] The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

Sample: 1987051

[1] The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10308819

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10308819001	Effluent-Jun15	TO-15	AIR/23404		

REPORT OF LABORATORY ANALYSIS

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10308819

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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



Section A Required Client Information: Company: SHANNON WILSON Address: 2110 LUANN LANE JR 201 Email To: MADISON, W T 53713 Phone: 608-442-5003 Fax: 608-442-9013 Requested Due Date/TAT:		Section B Required Project Information: Report To: MARK MCBLOCH Copy To: Purchase Order No.: Project Name: DBOM Project Number: 42-1-3720-012		Section C Invoice Information: Attention: Company Name: GUM Address: Pace Quote Reference: Pace Project Manager/Sales Rep. Pace Profile #:		Page: 15515 of	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE EFFLUENT - JUN 15		Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10		COLLECTED MEDIA CODE PID Reading (Client only)		COMPOSITE START END/SBAS DATE TIME DATE TIME	
ITEM #							
1		6LC	06/03/15	920	06/03	922	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Mark M. McBlach	06/03	1200	Mark M. McBlach	06/03	1200	Temp in °C Received on ice Custody Sealed Cooler Samples Intact


SIGNATURE OF SAMPLER: MARK S. MCBLOCH DATE Signed (MM/DD/YY): 06-03-15		SIGNATURE OF SAMPLER: Mark M. McBlach DATE Signed (MM/DD/YY): 06-03-15	
--	--	--	--

ORIGINAL

Air Sample Condition Upon Receipt

Client Name: Shannon Twison Project #: _____

WO#: 10308819



10308819

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

Tracking Number: 79374652 2427

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

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

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

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermom. Used: B88A912167504 72337080
 B88A9132521491 80512447

Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 6/4/15

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>Air can</u>		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received:					
Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
<u>effluent</u>	<u>1690</u>				

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [Signature] Date: 6/4/15

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



Pace Analytical Services, Inc.
 1700 Elm Street – Suite 200
 Minneapolis, MN 55414
 Phone: 612.607.1700
 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
 Phone: (920)374-2034

Lab Project Number: 10308819
 Project Name: 42-1-37320-002 DB OAK

Lab Sample No: 10308819001
 Client Sample ID: Effluent-Jun15

ProjSampleNum: 10308819001
 Matrix: Air

Date Collected: 06/03/15 9:22
 Date Received: 06/04/15 10:31

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	133	ppbv	5.6	27.8	06/05/15 19:34 MJL	156-59-2	
Tetrachloroethene	352	ppbv	2.8	27.8	06/05/15 19:34 MJL	127-18-4	
trans-1,2-Dichloroethene	3.6J	ppbv	5.6	27.8	06/05/15 19:34 MJL	156-60-5	
Trichloroethene	99.4	ppbv	2.8	27.8	06/05/15 19:34 MJL	79-01-6	
Vinyl chloride	14.5	ppbv	2.8	27.8	06/05/15 19:34 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
 Units Conversion Request



Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
Phone: (920)374-2034

Lab Project Number: 10308819
Project Name: 42-1-37320-002 DB OAK

PARAMETER FOOTNOTES

SUPPLEMENTAL REPORT
Units Conversion Request

July 14, 2015

Mr. Mark McColloch
Shannon & Wilson, Inc.
2110 Luann Lane
Suite 101
Madison, WI 53713

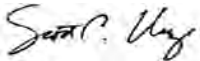
RE: Project: 42-1-37320-002 DB Oak
Pace Project No.: 10313051

Dear Mr. McColloch:

Enclosed are the analytical results for sample(s) received by the laboratory on July 06, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Scott Unze for
Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10313051

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10313051

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10313051001	Effluent-July 15	Air	07/02/15 10:00	07/06/15 09:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10313051

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10313051001	Effluent-July 15	TO-15	MJL	5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10313051

Sample: Effluent-July 15 **Lab ID: 10313051001** Collected: 07/02/15 10:00 Received: 07/06/15 09:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient		Analytical Method: TO-15							
cis-1,2-Dichloroethene	627	ug/m3	21.7	6.6	26.8		07/10/15 20:37	156-59-2	
trans-1,2-Dichloroethene	<10.3	ug/m3	21.7	10.3	26.8		07/10/15 20:37	156-60-5	
Tetrachloroethene	4030	ug/m3	18.5	7.5	26.8		07/10/15 20:37	127-18-4	
Trichloroethene	924	ug/m3	14.7	7.4	26.8		07/10/15 20:37	79-01-6	
Vinyl chloride	32.5	ug/m3	7.0	5.2	26.8		07/10/15 20:37	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10313051

QC Batch:	AIR/23694	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	TO15 MSV AIR - AMBIENT
Associated Lab Samples:	10313051001		

METHOD BLANK: 2019353 Matrix: Air

Associated Lab Samples: 10313051001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	07/10/15 13:36	
Tetrachloroethene	ug/m3	<0.28	0.69	07/10/15 13:36	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	07/10/15 13:36	
Trichloroethene	ug/m3	<0.28	0.55	07/10/15 13:36	
Vinyl chloride	ug/m3	<0.20	0.26	07/10/15 13:36	

LABORATORY CONTROL SAMPLE: 2019354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	42.1	104	64-137	
Tetrachloroethene	ug/m3	69	74.2	108	66-137	
trans-1,2-Dichloroethene	ug/m3	40.3	42.2	105	61-140	
Trichloroethene	ug/m3	54.6	60.0	110	70-134	
Vinyl chloride	ug/m3	26	29.7	114	72-129	

SAMPLE DUPLICATE: 2020184

Parameter	Units	10313051001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	627	861	32	25	R1
Tetrachloroethene	ug/m3	4030	4100	2	25	
trans-1,2-Dichloroethene	ug/m3	<10.3	<10.3		25	
Trichloroethene	ug/m3	924	913	1	25	
Vinyl chloride	ug/m3	32.5	44.6	31	25	R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10313051

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10313051

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10313051001	Effluent-July 15	TO-15	AIR/23694		

REPORT OF LABORATORY ANALYSIS

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10313051



AIR: CHAIN-OF-CUSTODY / Analytical Request Document


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

Section A Required Client Information: Company: <u>WILSON & WILSON, INC</u> Address: <u>2110 LAMANN LANE, SUITE 101</u> Email To: <u>MADISON, WI</u> Phone: <u>608/482-5223</u> Fax: <u>608/482-9413</u> Requested Due Date/TAT: _____		Section B Required Project Information: Report To: <u>MARK MCCLELLAN</u> Copy To: _____ Purchase Order No.: _____ Project Name: <u>DB OAK</u> Project Number: <u>229-37320-002</u>		Section C Invoice Information: Attention: _____ Company Name: _____ Address: _____ Pace Quote Reference: _____ Pace Project Manager/Sales Rep. _____ Pace Profile #: _____		Page: 15788 of _____	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10		PID Reading (Client only) MEDIA CODE <u>666</u>		Report Level II. ___ III. ___ IV. ___ Other _____ Location of Sampling by State _____ Reporting Units ug/m ³ _____ m ³ /m ³ _____ PPMV _____ Other _____	
UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other _____		Method: PM10 _____ 3C-Fixed Gas (%) _____ TO-3M (Methane) _____ TO-4 (PCBs) _____ TO-13 (PAH) _____ TO-14 _____ TO-15 _____ TO-15 Short List* _____		Summa Can Number <u>2705</u>		Flow Control Number <u>001</u>	
COLLECTED COMPOSITE START END/START DATE TIME DATE TIME <u>07/02 1000</u> _____		Canister Pressure (Initial Field - psig) _____		Canister Pressure (Final Field - psig) _____		ACCEPTED BY / AFFILIATION <u>Mark McClellan</u> <u>07/02 1300</u> <u>FedEx</u>	
RELINQUISHED BY / AFFILIATION <u>Mark McClellan</u> <u>07/02 1000</u> _____		DATE TIME <u>07/02 1000</u> _____		DATE TIME <u>07/02 1300</u> _____		SAMPLE CONDITIONS Received on Ice Y/N Y/N Custody Sealed Cooler Y/N Y/N Temp in °C Y/N Y/N	
COMMENTS: <u>UTELUGONT - JULY 15</u>		SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: _____ SIGNATURE OF SAMPLER: _____ DATE Signed (MM/DD/YYYY) _____		ORIGINAL		Samples Intact Y/N Y/N	

Air Sample Condition Upon Receipt

Client Name: Shannon + Wilson Project #: WO# : 10313051

WO# : 10313051



10313051

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

Tracking Number: 7739 7206 8238

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

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

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

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermom. Used: B88A912167504 72337080
 B88A9132521491 80512447

Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 7/6/15

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Media: <u>air can</u>				11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12.

Samples Received: rec 1 gauge

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
<u>eFluor +</u>	<u>2705</u>				

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: AMP Date: 7/6/15

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



Pace Analytical Services, Inc.
 1700 Elm Street – Suite 200
 Minneapolis, MN 55414
 Phone: 612.607.1700
 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
 Phone: (920)374-2034

Lab Project Number: 10313051
 Project Name: 42-1-37320-002 DB Oak

Lab Sample No: 10313051001

ProjSampleNum: 10313051001

Date Collected: 07/02/15 10:00

Client Sample ID: Effluent-July 15

Matrix: Air

Date Received: 07/06/15 9:35

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
------------	---------	-------	--------------	----	----------	---------	------------

Air
 TO-15

cis-1,2-Dichloroethene	156	ppbv	5.4	26.8	07/10/15 20:37 MJL	156-59-2	
Tetrachloroethene	585	ppbv	2.7	26.8	07/10/15 20:37 MJL	127-18-4	
trans-1,2-Dichloroethene	<2.6	ppbv	5.4	26.8	07/10/15 20:37 MJL	156-60-5	
Trichloroethene	169	ppbv	2.7	26.8	07/10/15 20:37 MJL	79-01-6	
Vinyl chloride	12.5	ppbv	2.7	26.8	07/10/15 20:37 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
Phone: (920)374-2034

Lab Project Number: 10313051
Project Name: 42-1-37320-002 DB Oak

PARAMETER FOOTNOTES

SUPPLEMENTAL REPORT
Units Conversion Request

August 19, 2015

Mr. Mark McColloch
Shannon & Wilson, Inc.
2110 Luann Lane
Suite 101
Madison, WI 53713

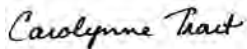
RE: Project: 42-1-37320-002 DB Oak
Pace Project No.: 10317354

Dear Mr. McColloch:

Enclosed are the analytical results for sample(s) received by the laboratory on August 07, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10317354

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

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Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

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Montana Certification #: MT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

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South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10317354

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10317354001	Effluent-Aug 15	Air	08/06/15 09:05	08/07/15 11:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 42-1-37320-002 DB Oak
Pace Project No.: 10317354

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10317354001	Effluent-Aug 15	TO-15	MLS	5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10317354

Sample: Effluent-Aug 15 **Lab ID: 10317354001** Collected: 08/06/15 09:05 Received: 08/07/15 11:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient		Analytical Method: TO-15							
cis-1,2-Dichloroethene	3.3	ug/m3	1.1	0.34	1.39		08/14/15 21:18	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/m3	1.1	0.53	1.39		08/14/15 21:18	156-60-5	
Tetrachloroethene	9.9	ug/m3	0.96	0.39	1.39		08/14/15 21:18	127-18-4	
Trichloroethene	56.6	ug/m3	0.76	0.38	1.39		08/14/15 21:18	79-01-6	
Vinyl chloride	<0.27	ug/m3	0.36	0.27	1.39		08/14/15 21:18	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10317354

QC Batch:	AIR/23905	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	TO15 MSV AIR - AMBIENT
Associated Lab Samples:	10317354001		

METHOD BLANK: 2052005 Matrix: Air

Associated Lab Samples: 10317354001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	08/14/15 14:32	
Tetrachloroethene	ug/m3	<0.28	0.69	08/14/15 14:32	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	08/14/15 14:32	
Trichloroethene	ug/m3	<0.28	0.55	08/14/15 14:32	
Vinyl chloride	ug/m3	<0.20	0.26	08/14/15 14:32	

LABORATORY CONTROL SAMPLE: 2052006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	45.4	113	64-137	
Tetrachloroethene	ug/m3	69	76.2	110	66-137	
trans-1,2-Dichloroethene	ug/m3	40.3	45.0	112	61-140	
Trichloroethene	ug/m3	54.6	61.4	112	70-134	
Vinyl chloride	ug/m3	26	28.3	109	72-129	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 42-1-37320-002 DB Oak

Pace Project No.: 10317354

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 42-1-37320-002 DB Oak
Pace Project No.: 10317354

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10317354001	Effluent-Aug 15	TO-15	AIR/23905		

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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


10317354

Section A Required Client Information: Company: SHANNON WILSON, INC. Address: 2110 LYNN LANE, SUITE 101 MADISON, WI 53713 Email To: MSME@shannwil.com Phone: 608/442-5233 Fax: 608/442-9013 Requested Due Date/TAI:		Section B Required Project Information: Report To: MARK MCCULLACH Copy To: — Purchase Order No.: — Project Name: DB CAK Project Number: 42-1-37320-002		Section C Invoice Information: Attention: MARK MCCULLACH Company Name: SHANNON WILSON, INC. Address: 2110 LYNN LANE, SUITE 101 Pace Quote Reference: Pace Project Manager/Sales Rep. Pace Profile #:		Page: 20564 of
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		COLLECTED MEDIA CODE Valid Media Codes: TB Teller Bag 1 Liter Summa Can 6 Liter Summa Can 15 Liter Summa Can Low Volume Puff High Volume Puff Other:		PID Reading (Client only) MEDIA CODE COMPOSITE START END/GRAB DATE TIME DATE TIME 08-06 905 0806 905		Method: PM10 3C-Fixed Gas (%) TO-3M (Methane) TO-4 (PCBS) TO-13 (PAH) TO-14 TO-15 TO15 Short List
EFFLUENT-19615		Canister Pressure (Initial Field - psig) — Canister Pressure (Final Field - psig) — Summa Can Number 1896 Flow Control Number —		Report Level II. III. IV. Other		Location of Sampling by State Reporting Units ug/m ³ mg/m ³ PPBV PPMV Other
UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other		Program		Temp in °C Received on Y/N Custody Y/N Sealed Cooler Y/N Samples Intact Y/N		Date TIME DATE TIME 08-06 1200 08-06 1200 8765 1100
RELIQUISHED BY / AFFILIATION Mark L. McCullach		ACCEPTED BY / AFFILIATION [Signature]		SAMPLE CONDITIONS		COMMENTS:
SAMPLER NAME AND SIGNATURE PRINT NAME: MARK MCCULLACH SIGNATURE: [Signature] DATE SIGNER (MM/DD/YY): 08-06-15		ORIGINAL				

Air Sample Condition Upon Receipt

Client Name: Shannon + Wilson Project #: _____

WO# : 10317354



10317354

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

Tracking Number: 7742 2519 7576

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

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

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermom. Used: B88A912167504 72337080
 B88A9132521491 80512447
 Date & Initials of Person Examining Contents: 8/7/15

Temp should be above freezing to 6°C Correction Factor: X
 Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
<u>Aug 15</u>	<u>1596</u>				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review:

CPM

Date: 8/7/15

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



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

10317354

Section A Required Client Information: Company: SHANNON WILSON, INC. Address: 2110 LYNN LANE, SUITE 101 MADISON, WI 53713 Email To: MSME@shannwil.com Phone: 608/442-5233 Fax: 608/442-9013 Requested Due Date/TAI:		Section B Required Project Information: Report To: MARK MCCULLACH Copy To: _____ Purchase Order No.: _____ Project Name: DE OAK Project Number: 42-1-37320-002		Section C Invoice Information: Attention: MARK MCCULLACH Company Name: SHANNON WILSON, INC. Address: 2110 LYNN LANE, SUITE 101 Pace Quote Reference: Pace Project Manager/Sales Rep. Pace Profile #:		Page: 20564 of							
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE EFFLUENT-19615		Valid Media Codes MEDIA CODE TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10		PID Reading (Client only) MEDIA CODE COMPOSITE START END GRAVE DATE TIME DATE TIME 08-06 905 0806 905		COLLECTED Canister Pressure (Initial Field - psig) _____ Canister Pressure (Final Field - psig) _____ Summa Can Number 1876 Flow Control Number _____							
Method: PM10 3C-Fixed Gas (%) TO-3M (Methane) TO-4 (PCBS) TO-13 (PAH) TO-14 TO-15 TO15 Short List*		Report Level II. ___ III. ___ IV. ___ Other ___ Location of Sampling by State _____ Reporting Units ug/m ³ _____ mg/m ³ _____ PPBV _____ PPMV _____ Other _____ UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other _____		Method: PM10 3C-Fixed Gas (%) TO-3M (Methane) TO-4 (PCBS) TO-13 (PAH) TO-14 TO-15 TO15 Short List*		Page Lab ID 001							
RELIQUISHED BY / AFFILIATION Mark L. McCullach		DATE 08-06		TIME 1200		ACCEPTED BY / AFFILIATION [Signature]		DATE 08/06		TIME 1200		SAMPLE CONDITIONS Received on Y/N Y/N Ice Y/N Y/N Sealed Cooler Y/N Y/N Samples Intact Y/N Y/N	
Comments :													
ORIGINAL SAMPLER NAME AND SIGNATURE PRINT NAME: MARK MCCULLACH SIGNATURE OF SAMPLER: [Signature] DATE SIGNED (MM/DD/YY): 08-06-15													



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.10

Document Revised: 29 June 2015
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Shannon + Wilson

Project #:

WO# : 10317354

10317354

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

Tracking Number: 7742 2519 7576

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

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

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermom. Used: B88A912167504 72337080
 B88A9132521491 80512447
Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 8/7/15

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
<u>Aug 15</u>	<u>1596</u>				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____

Date: 8/7/15

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

September 17, 2015

Mr. Mark McColloch
Shannon & Wilson, Inc.
2110 Luann Lane
Suite 101
Madison, WI 53713

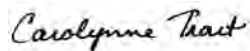
RE: Project: 42-1-37320-002 DB OAK
Pace Project No.: 10321245

Dear Mr. McColloch:

Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10321245

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10321245

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10321245001	Effluent-SEP15	Air	09/08/15 10:30	09/09/15 10:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10321245

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10321245001	Effluent-SEP15	TO-15	DR1, MJL	5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10321245

Sample: Effluent-SEP15 **Lab ID: 10321245001** Collected: 09/08/15 10:30 Received: 09/09/15 10:25 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient		Analytical Method: TO-15							
cis-1,2-Dichloroethene	1750	ug/m3	347	105	428.8		09/16/15 14:45	156-59-2	A3
trans-1,2-Dichloroethene	50.6	ug/m3	1.1	0.51	1.34		09/15/15 18:49	156-60-5	
Tetrachloroethene	14200	ug/m3	295	119	428.8		09/16/15 14:45	127-18-4	A3
Trichloroethene	2420	ug/m3	236	118	428.8		09/16/15 14:45	79-01-6	A3
Vinyl chloride	38.7	ug/m3	0.35	0.26	1.34		09/15/15 18:49	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10321245

QC Batch: AIR/24139

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR - AMBIENT

Associated Lab Samples: 10321245001

METHOD BLANK: 2077647

Matrix: Air

Associated Lab Samples: 10321245001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	09/15/15 11:23	
Tetrachloroethene	ug/m3	<0.28	0.69	09/15/15 11:23	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	09/15/15 11:23	
Trichloroethene	ug/m3	<0.28	0.55	09/15/15 11:23	
Vinyl chloride	ug/m3	<0.20	0.26	09/15/15 11:23	

LABORATORY CONTROL SAMPLE: 2077648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	49.3	122	64-137	
Tetrachloroethene	ug/m3	69	85.4	124	66-137	
trans-1,2-Dichloroethene	ug/m3	40.3	50.9	126	61-140	
Trichloroethene	ug/m3	54.6	67.3	123	70-134	
Vinyl chloride	ug/m3	26	28.6	110	72-129	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10321245

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

A3 The sample was analyzed by serial dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 42-1-37320-002 DB OAK
Pace Project No.: 10321245

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10321245001	Effluent-SEP15	TO-15	AIR/24139		

REPORT OF LABORATORY ANALYSIS

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10321245



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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


Page: 20861 of		
Section A Required Client Information: Company: SHANNON & WILSON Address: 2110 LARSEN LANE MADISON, WI Email To: mason@shannon.wi.com Phone: 608/442-5223 Requested Due Date/TAT:	Section B Required Project Information: Report: MARK McCULLOCH Copy To: Purchase Order No.: Project Name: DB OAK Project Number: 42-1-37320-012	Section C Invoice Information: Attention: MARK McCULLOCH Company Name: SHANNON & WILSON, INC Address: 2110 LARSEN LANE, SEWISSE, WI 53181-0101 Pace Quote Reference: Pace Project Manager/Sales Rep. Pace Profile #:
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE EFFLUENT-SEAS		Program: <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State: _____ Reporting Units: _____ Report Level: II. III. IV. Other: _____
Method: PM10 3C-Fixed Gas (%) TO-3 TO-3M (Methane) TO-4 (PCBS) TO-13 (PAH) TO-14 TO-15 TO-15 Short List*		Flow Control Number: _____ Summa Can Number: 1756 Canister Pressure (Initial Field - psig): 30 Canister Pressure (Final Field - psig): 0
Valid Media Codes: MEDIA CODE Teflon Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10		COLLECTED MEDIA CODE: 6LC PFD Reading (Client only): COMPOSITE START END/DATE TIME DATE TIME 07-08 750 07-08 1030
# ITEM 1 2 3 4 5 6 7 8 9 10 11 12		RELINQUISHED BY / AFFILIATION: Mark McEllin DATE: 07-08 TIME: 750 ACCEPTED BY / AFFILIATION: FREDERICK J. GARDNER DATE: 09-08 TIME: 1600 SAMPLE CONDITIONS: Received on Ice: Y/N Custody Sealed Cooler: Y/N Temp in °C: _____
Comments :		SAMPLER NAME AND SIGNATURE: _____ PRINT Name of SAMPLER: _____ SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): _____

ORIGINAL

Air Sample Condition Upon Receipt

Client Name: Shannon + Wilson Project #: _____

WO#: 10321245



10321245

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

Tracking Number: 7744 5816 9698

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

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermom. Used: B88A912167504 72337080
 B88A9132521491 80512447

Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 09/15

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>(Air Can)</u> Airbag Filter TDT Passive		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
<u>AP1001</u>	<u>1756</u>				

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: AMP Date: 9/9/15

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



Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
Phone: (920)374-2034

Lab Project Number: 10321245
Project Name: 42-1-37320-002 DB OAK

Lab Sample No: 10321245001 ProjSampleNum: 10321245001 Date Collected: 09/08/15 10:30
Client Sample ID: Effluent-SEP15 Matrix: Air Date Received: 09/09/15 10:25

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
------------	---------	-------	--------------	----	----------	---------	------------

Air

TO-15

cis-1,2-Dichloroethene	434	ppbv	86.1	428.8	09/16/15 14:45 MJL	156-59-2	A3
Tetrachloroethene	2060	ppbv	42.8	428.8	09/16/15 14:45 MJL	127-18-4	A3
trans-1,2-Dichloroethene	12.6	ppbv	0.27	1.34	09/15/15 18:49 DR1	156-60-5	
Trichloroethene	443	ppbv	43.2	428.8	09/16/15 14:45 MJL	79-01-6	A3
Vinyl chloride	14.9	ppbv	0.13	1.34	09/15/15 18:49 DR1	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
Phone: (920)374-2034

Lab Project Number: 10321245
Project Name: 42-1-37320-002 DB OAK

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

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

[A3] The sample was analyzed by serial dilution.

SUPPLEMENTAL REPORT

Units Conversion Request

October 16, 2015

Mr. Mark McColloch
Shannon & Wilson, Inc.
2110 Luann Lane
Suite 101
Madison, WI 53713

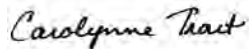
RE: Project: 42-1-37320-002 DB OAK
Pace Project No.: 10325283

Dear Mr. McColloch:

Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: 42-1-37320-002 DB OAK
Pace Project No.: 10325283

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10325283

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10325283001	Effluent Oct 15	Air	10/07/15 09:30	10/08/15 10:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10325283

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10325283001	Effluent Oct 15	TO-15	MLS	5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10325283

Sample: Effluent Oct 15 **Lab ID: 10325283001** Collected: 10/07/15 09:30 Received: 10/08/15 10:05 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient		Analytical Method: TO-15							
cis-1,2-Dichloroethene	809	ug/m3	174	52.7	214.4		10/14/15 19:43	156-59-2	
trans-1,2-Dichloroethene	<82.3	ug/m3	174	82.3	214.4		10/14/15 19:43	156-60-5	
Tetrachloroethene	5720	ug/m3	148	59.6	214.4		10/14/15 19:43	127-18-4	
Trichloroethene	1040	ug/m3	118	59.2	214.4		10/14/15 19:43	79-01-6	
Vinyl chloride	<41.8	ug/m3	55.7	41.8	214.4		10/14/15 19:43	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10325283

QC Batch: AIR/24423

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR - AMBIENT

Associated Lab Samples: 10325283001

METHOD BLANK: 2107561

Matrix: Air

Associated Lab Samples: 10325283001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	10/14/15 14:37	
Tetrachloroethene	ug/m3	<0.28	0.69	10/14/15 14:37	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	10/14/15 14:37	
Trichloroethene	ug/m3	<0.28	0.55	10/14/15 14:37	
Vinyl chloride	ug/m3	<0.20	0.26	10/14/15 14:37	

LABORATORY CONTROL SAMPLE: 2107562

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	43.0	107	64-137	
Tetrachloroethene	ug/m3	69	71.0	103	66-137	
trans-1,2-Dichloroethene	ug/m3	40.3	43.6	108	61-140	
Trichloroethene	ug/m3	54.6	57.2	105	70-134	
Vinyl chloride	ug/m3	26	27.5	106	72-129	

SAMPLE DUPLICATE: 2108345

Parameter	Units	10325283001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	809	781	4	25	
Tetrachloroethene	ug/m3	5720	5580	2	25	
trans-1,2-Dichloroethene	ug/m3	<82.3	<82.3		25	
Trichloroethene	ug/m3	1040	1050	1	25	
Vinyl chloride	ug/m3	<41.8	<41.8		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10325283

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10325283001

[1] This result is reported from a serial dilution.

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 42-1-37320-002 DB OAK
Pace Project No.: 10325283

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10325283001	Effluent Oct 15	TO-15	AIR/24423		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

10325283

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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



Section A Required Client Information: Company: SHANNON & WILSON INC. Address: 2110 LEANN LANE, SUITE 101 MARISON, WI 53713 Email To: msw@shawnwi.com Phone: 608/442-5223 Requested Due Date/TAT:		Section B Required Project Information: Report To: MARK McCLOCH Copy To: Purchase Order No.: Project Name: DB OAK Project Number: 337320-002		Section C Invoice Information: Attention: MARK McCLOCH Company Name: SHANNON & WILSON Address: 2110 LEANN LANE, MARISON WI Pace Quote Reference: Pace Project Manager/Sales Rep. Pace Profile #:		20937 Page: of			
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		Valid Media Codes MEDIA CODE TB Tedlar Bag -1L 1 Liter Summa Can -1LC 6 Liter Summa Can -6LC Low Volume Puff -LVP High Volume Puff -HVP Other -PMTD		COLLECTED MEDIA CODE PID Reading (Client only) COMPOSITE START END/GRAB DATE TIME 09/07 930 10/07 930		Method: M10 3C - Fixed Gas (%) TO-3 TO-3M (Methane) TO-4 (PCBS) TO-13 (PAH) TO-14 TO-15 TO-15 Short List*			
#	ITEM	Flow Control Number	Summa Can Number	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
1	EFFLUENT OCT 15	---	1028	---	---	JEDOX	10/07	1130	Received on Ice Y/N Custody Sealed Cooler Y/N Samples Intact Y/N
2						SHANNON & WILSON	10/15	1005	
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

Comments :

ORIGINAL

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

Air Sample Condition Upon Receipt

Client Name: Shannon + Wilson

Project #: **WO#: 10325283**



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

Tracking Number: 6984 8642 0552

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

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

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (T017 and T013 samples only) (°C): X Corrected Temp (°C): F Thermom. Used: B88A912167504 72337080
 B88A9132521491 80512447
 Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 10/8/15

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received:					
Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
<u>Off.</u>	<u>1624</u>				

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: [Signature] Date: 10/8/15

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



Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
Phone: (920)374-2034

Lab Project Number: 10325283
Project Name: 42-1-37320-002 DB OAK

Lab Sample No: 10325283001 ProjSampleNum: 10325283001 Date Collected: 10/07/15 9:30
Client Sample ID: Effluent Oct 15 Matrix: Air Date Received: 10/08/15 10:05

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
------------	---------	-------	--------------	----	----------	---------	------------

Air

TO-15

cis-1,2-Dichloroethene	201	ppbv	43.2	214.4	10/14/15 19:43	MLS 156-59-2	
Tetrachloroethene	830	ppbv	21.5	214.4	10/14/15 19:43	MLS 127-18-4	
trans-1,2-Dichloroethene	<20.4	ppbv	43.2	214.4	10/14/15 19:43	MLS 156-60-5	
Trichloroethene	190	ppbv	21.6	214.4	10/14/15 19:43	MLS 79-01-6	
Vinyl chloride	<16.1	ppbv	21.4	214.4	10/14/15 19:43	MLS 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
Phone: (920)374-2034

Lab Project Number: 10325283
Project Name: 42-1-37320-002 DB OAK

PARAMETER FOOTNOTES

SUPPLEMENTAL REPORT

Units Conversion Request

10325283



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page: <u> </u> of <u> </u>
Company: <u>SHANNON & WILSON INC.</u> Address: <u>2110 LEANN LANE, SUITE 101</u> MADISON, WI 53713 Email To: <u>ms@shawnl.com</u> Phone: <u>608/442-5223</u> Requested Due Date/TAT: <u> </u>	Report To: <u>MARK McCLOCH</u> Copy To: <u> </u> Purchase Order No.: <u> </u> Project Name: <u>DB OAK</u> Project Number: <u>33320-002</u>	Attention: <u>MARK McCLOCH</u> Company Name: <u>SHANNON & WILSON</u> Address: <u>2110 LEANN LANE, MADISON WI</u> Pace Quote Reference: <u> </u> Pace Project Manager/Sales Rep. <u> </u> Pace Profile #: <u> </u>	20937

ITEM #	Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	COLLECTED		Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method:
			COMPOSITE START ENDIGRAB	COMPOSITE * DATE TIME					
1	EFFLUENT OCT 15		DATE TIME	DATE TIME					Method: <u> </u>
2			DATE TIME	DATE TIME					Method: <u> </u>
3			DATE TIME	DATE TIME					Method: <u> </u>
4			DATE TIME	DATE TIME					Method: <u> </u>
5			DATE TIME	DATE TIME					Method: <u> </u>
6			DATE TIME	DATE TIME					Method: <u> </u>
7			DATE TIME	DATE TIME					Method: <u> </u>
8			DATE TIME	DATE TIME					Method: <u> </u>
9			DATE TIME	DATE TIME					Method: <u> </u>
10			DATE TIME	DATE TIME					Method: <u> </u>
11			DATE TIME	DATE TIME					Method: <u> </u>
12			DATE TIME	DATE TIME					Method: <u> </u>

Comments:	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS											
	DATE	TIME	DATE	TIME	DATE	TIME	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact										
ORIGINAL	<u>MARK McCLOCH</u>		<u>MARK McCLOCH</u>		<u>10/17</u>	<u>1130</u>	<u>10/17</u>	<u>1130</u>	<u>AMS</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
					<u>10/15</u>	<u>1005</u>														

Air Sample Condition Upon Receipt

Client Name: Shannon + Wilson

Project #: **WO#: 10325283**



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

Tracking Number: 6984 8642 0552

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

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

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (T017 and T013 samples only) (°C): X Corrected Temp (°C): F Thermom. Used: B88A912167504 72337080
 B88A9132521491 80512447

Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 10/8/15

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received:					
Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
<u>Off</u>	<u>1624</u>				

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [Signature] Date: 10/8/15

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

November 11, 2015

Mr. Mark McColloch
Shannon & Wilson, Inc.
2110 Luann Lane
Suite 101
Madison, WI 53713

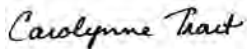
RE: Project: 42-1-37320-003 DB OAK
Pace Project No.: 10328703

Dear Mr. McColloch:

Enclosed are the analytical results for sample(s) received by the laboratory on November 03, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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

Project: 42-1-37320-003 DB OAK

Pace Project No.: 10328703

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 42-1-37320-003 DB OAK

Pace Project No.: 10328703

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10328703001	EFFLUENT NOV 15	Air	11/02/15 10:00	11/03/15 16:41

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 42-1-37320-003 DB OAK
Pace Project No.: 10328703

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10328703001	EFFLUENT NOV 15	TO-15	MJL, MLS	5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 42-1-37320-003 DB OAK

Pace Project No.: 10328703

Sample: EFFLUENT NOV 15 **Lab ID: 10328703001** Collected: 11/02/15 10:00 Received: 11/03/15 16:41 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient		Analytical Method: TO-15							
cis-1,2-Dichloroethene	548	ug/m3	21.7	6.6	26.8		11/09/15 16:36	156-59-2	
trans-1,2-Dichloroethene	<10.3	ug/m3	21.7	10.3	26.8		11/09/15 16:36	156-60-5	
Tetrachloroethene	7650	ug/m3	295	119	428.8		11/10/15 17:52	127-18-4	
Trichloroethene	721	ug/m3	14.7	7.4	26.8		11/09/15 16:36	79-01-6	
Vinyl chloride	18.0	ug/m3	7.0	5.2	26.8		11/09/15 16:36	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 42-1-37320-003 DB OAK

Pace Project No.: 10328703

QC Batch:	AIR/24607	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	TO15 MSV AIR - AMBIENT
Associated Lab Samples:	10328703001		

METHOD BLANK: 2130697 Matrix: Air

Associated Lab Samples: 10328703001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	11/09/15 14:17	
Tetrachloroethene	ug/m3	<0.28	0.69	11/09/15 14:17	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	11/09/15 14:17	
Trichloroethene	ug/m3	<0.28	0.55	11/09/15 14:17	
Vinyl chloride	ug/m3	<0.20	0.26	11/09/15 14:17	

LABORATORY CONTROL SAMPLE: 2130698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	51.2	127	64-137	
Tetrachloroethene	ug/m3	69	90.4	131	66-137	
trans-1,2-Dichloroethene	ug/m3	40.3	53.3	132	61-140	
Trichloroethene	ug/m3	54.6	69.8	128	70-134	
Vinyl chloride	ug/m3	26	31.5	121	72-129	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 42-1-37320-003 DB OAK

Pace Project No.: 10328703

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 42-1-37320-003 DB OAK

Pace Project No.: 10328703

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10328703001	EFFLUENT NOV 15	TO-15	AIR/24607		

REPORT OF LABORATORY ANALYSIS

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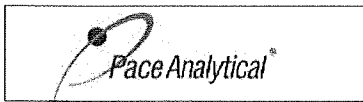
103228703

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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



Section A Required Client Information: Company: <u>Shannon & Wilson, Inc</u> Address: <u>2110 Luman Lane</u> City: <u>WTE COI MADISON, WI</u> Email To: <u>msw@shannon-wilson.com</u> Phone: <u>608/442-5283</u> Fax: <u>608/442-9013</u> Requested Due Date/TAT: _____		Section B Required Project Information: Report To: <u>Mark McCulloch</u> Copy To: _____ Purchase Order No.: _____ Project Name: <u>DB CAK</u> Project Number: <u>42-1-97320-003</u>		Section C Invoice Information: Attention: <u>MARK McCULLOCH</u> Company Name: <u>SHANNON & WILSON, INC</u> Address: <u>2110 LUMAN LANE MADISON, WI</u> Pace Quote Reference: _____ Pace Project Manager/Sales Rep. _____ Pace Profile #: _____		Page: <u>21080</u> of _____							
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		Valid Media Codes MEDIA CODE TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Purif LVP High Volume Purif HVP Other PK10		PD Reading (Client only) MEDIA CODE <u>644</u>		COLLECTED COMPOSITE START END DATE TIME DATE TIME <u>11/2 1000 11/2 1000</u>							
Canister Pressure (Initial Field - psig) _____ Canister Pressure (Final Field - psig) _____ Summa Can Number _____ Flow Control Number _____		Method: FM10 3C-Fixed Gas (%) TO-3 TO-3M (Methane) TO-4 (PCBs) TO-13 (PAH) TO-14 TO-15 TO-15 Short List*		Report Level II. III. IV. Other _____ Location of Sampling by State _____ Reporting Units ug/m ³ _____ mg/m ³ _____ PPBV _____ Other _____ Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other _____		Temp in °C _____ Received on Y/N _____ Custody Y/N _____ Sealed Cooler Y/N _____ Samples Intact Y/N _____							
Comments: _____		RELINQUISHED BY / AFFILIATION <u>Mark A. McCulloch</u>		DATE <u>11/2 1300</u>		ACCEPTED BY / AFFILIATION <u>FEDER</u>		DATE <u>11/2 1300</u>		TIME <u>1641 AM</u>		SAMPLE CONDITIONS Y/N Y/N Y/N Y/N Y/N Y/N	
ORIGINAL		SAMPLER NAME AND SIGNATURE PRINT NAME of SAMPLER <u>Mark McCulloch</u> SIGNATURE of SAMPLER <u>Mark McCulloch</u> DATE SIGNED (MM/DD/YY) <u>11-2-15</u>		_____		_____		_____		_____		_____	



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.10

Document Revised: 29June2015
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Shannon + Wilson

Project #:

WO# : 10328703

 10328703

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

Tracking Number: 6484 8692 9685

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

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): AMB Corrected Temp (°C): — Thermom. Used: B88A912167504 72337080
 B88A9132521491 80512447
 Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: AR3 11/4/15

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
<u>Effluent</u>	<u>PACE 1679</u>				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review:

CPust

Date: 11/4/15

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



Pace Analytical Services, Inc.
 1700 Elm Street – Suite 200
 Minneapolis, MN 55414
 Phone: 612.607.1700
 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
 Phone: (920)374-2034

Lab Project Number: 10328703
 Project Name: 42-1-37320-003 DB OAK

Lab Sample No: 10328703001
 Client Sample ID: EFFLUENT NOV 15

ProjSampleNum: 10328703001
 Matrix: Air

Date Collected: 11/02/15 10:00
 Date Received: 11/03/15 16:41

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	136	ppbv	5.4	26.8	11/09/15 16:36 MJL	156-59-2	
Tetrachloroethene	1110	ppbv	42.8	428.8	11/10/15 17:52 MLS	127-18-4	
trans-1,2-Dichloroethene	<2.6	ppbv	5.4	26.8	11/09/15 16:36 MJL	156-60-5	
Trichloroethene	132	ppbv	2.7	26.8	11/09/15 16:36 MJL	79-01-6	
Vinyl chloride	6.9	ppbv	2.7	26.8	11/09/15 16:36 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
 Units Conversion Request



Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
Phone: (920)374-2034

Lab Project Number: 10328703
Project Name: 42-1-37320-003 DB OAK

PARAMETER FOOTNOTES

SUPPLEMENTAL REPORT
Units Conversion Request

December 14, 2015

Mr. Mark McColloch
Shannon & Wilson, Inc.
2110 Luann Lane
Suite 101
Madison, WI 53713

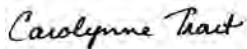
RE: Project: 421-32320-003 DB Oak
Pace Project No.: 10332425

Dear Mr. McColloch:

Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 421-32320-003 DB Oak

Pace Project No.: 10332425

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

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West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 421-32320-003 DB Oak

Pace Project No.: 10332425

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10332425001	Effluent-DEC2015	Air	12/04/15 10:25	12/08/15 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 421-32320-003 DB Oak

Pace Project No.: 10332425

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10332425001	Effluent-DEC2015	TO-15	MLS	5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 421-32320-003 DB Oak

Pace Project No.: 10332425

Sample: Effluent-DEC2015 **Lab ID: 10332425001** Collected: 12/04/15 10:25 Received: 12/08/15 10:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient		Analytical Method: TO-15							
cis-1,2-Dichloroethene	268	ug/m3	20.4	6.2	25.2		12/09/15 13:06	156-59-2	
trans-1,2-Dichloroethene	<9.7	ug/m3	20.4	9.7	25.2		12/09/15 13:06	156-60-5	
Tetrachloroethene	2520	ug/m3	17.4	7.0	25.2		12/09/15 13:06	127-18-4	
Trichloroethene	300	ug/m3	13.9	7.0	25.2		12/09/15 13:06	79-01-6	
Vinyl chloride	29.8	ug/m3	6.6	4.9	25.2		12/09/15 13:06	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 421-32320-003 DB Oak

Pace Project No.: 10332425

QC Batch:	AIR/24797	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	TO15 MSV AIR - AMBIENT
Associated Lab Samples:	10332425001		

METHOD BLANK: 2152837 Matrix: Air

Associated Lab Samples: 10332425001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	12/09/15 08:39	
Tetrachloroethene	ug/m3	<0.28	0.69	12/09/15 08:39	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	12/09/15 08:39	
Trichloroethene	ug/m3	<0.28	0.55	12/09/15 08:39	
Vinyl chloride	ug/m3	<0.20	0.26	12/09/15 08:39	

LABORATORY CONTROL SAMPLE: 2152838

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	33.2	82	64-137	
Tetrachloroethene	ug/m3	69	53.0	77	66-137	
trans-1,2-Dichloroethene	ug/m3	40.3	32.8	81	61-140	
Trichloroethene	ug/m3	54.6	43.6	80	70-134	
Vinyl chloride	ug/m3	26	20.7	80	72-129	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 421-32320-003 DB Oak

Pace Project No.: 10332425

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 421-32320-003 DB Oak

Pace Project No.: 10332425

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10332425001	Effluent-DEC2015	TO-15	AIR/24797		

REPORT OF LABORATORY ANALYSIS

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10332425



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: SHANNON F W L SOW Address: 2110 LINDEN LANE MADISON, WI Email To: wmsm@shannonsow.com Phone: 608-442-5703 Fax: 608-442-5013 Requested Due Date/TAT:	Section B Required Project Information: Report To: MARK MCGUICK Copy To: Purchase Order No.: Project Name: DBORK Project Number: 42-1-33320-003	Section C Invoice Information: Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager/Sales Rep. Pace Profile #:	Page: 21627 of																																																																																																																																																																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;"></td> <td style="width:15%;">Section D Required Client Information</td> <td style="width:15%;">COLLECTED</td> <td style="width:15%;">RELINQUISHED BY / AFFILIATION</td> <td style="width:15%;">DATE</td> <td style="width:15%;">TIME</td> <td style="width:15%;">ACCEPTED BY / AFFILIATION</td> <td style="width:15%;">DATE</td> <td style="width:15%;">TIME</td> <td style="width:15%;">SAMPLE CONDITIONS</td> </tr> <tr> <td>ITEM #</td> <td>AIR SAMPLE ID Sample IDs MUST BE UNIQUE</td> <td>Valid Media Codes MEDIA Tedlar Bag 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP PM10 Other</td> <td>PID Reading (Client only)</td> <td>COMPOSITE START END/GRAB</td> <td>DATE</td> <td>TIME</td> <td>DATE</td> <td>TIME</td> <td>Temp in °C</td> <td>Received on Ice</td> <td>Custody Sealed Cooler</td> <td>Samples Intact</td> </tr> <tr> <td>1</td> <td>EFFLUENT - DEC 2015</td> <td></td> <td></td> <td></td> <td>12-04-1085</td> <td>12-4</td> <td>12-04</td> <td>1300</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					Section D Required Client Information	COLLECTED	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	ITEM #	AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA Tedlar Bag 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP PM10 Other	PID Reading (Client only)	COMPOSITE START END/GRAB	DATE	TIME	DATE	TIME	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact	1	EFFLUENT - DEC 2015				12-04-1085	12-4	12-04	1300					2													3													4													5													6													7													8													9													10													11													12												
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ORIGINAL SAMPLER NAME AND SIGNATURE PRINT NAME: MARK MCGUICK SIGNATURE OF SAMPLER: <i>Mark A. McGuick</i> DATE SIGNED (MM/DD/YY)																																																																																																																																																																																						

Air Sample Condition Upon Receipt

Client Name: Shannon + Wilson Project #: _____

WO#: 10332425



10332425

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

Tracking Number: 6484 8694 0624

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

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

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermom. Used: B88A912167504 72337080
 B88A9132521491 80512447
 Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 12/8/15

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received:					
Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
<u>Effluent</u>	<u>1541</u>				

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: Analyte hst same as historical

Project Manager Review: CMR Date: 12/8/15

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



Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
Phone: (920)374-2034

Lab Project Number: 10332425
Project Name: 421-32320-003 DB Oak

Lab Sample No: 10332425001 ProjSampleNum: 10332425001 Date Collected: 12/04/15 10:25
Client Sample ID: Effluent-DEC2015 Matrix: Air Date Received: 12/08/15 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
------------	---------	-------	--------------	----	----------	---------	------------

Air

TO-15

cis-1,2-Dichloroethene	66.5	ppbv	5.1	25.2	12/09/15 13:06	MLS 156-59-2
Tetrachloroethene	366	ppbv	2.5	25.2	12/09/15 13:06	MLS 127-18-4
trans-1,2-Dichloroethene	<2.4	ppbv	5.1	25.2	12/09/15 13:06	MLS 156-60-5
Trichloroethene	54.9	ppbv	2.5	25.2	12/09/15 13:06	MLS 79-01-6
Vinyl chloride	11.5	ppbv	2.5	25.2	12/09/15 13:06	MLS 75-01-4

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
Phone: (920)374-2034

Lab Project Number: 10332425
Project Name: 421-32320-003 DB Oak

PARAMETER FOOTNOTES

SUPPLEMENTAL REPORT

Units Conversion Request

April 12, 2016

Mr. Mark McColloch
Shannon & Wilson, Inc.
2110 Luann Lane
Suite 101
Madison, WI 53713

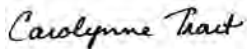
RE: Project: 42-1-37320-002 DB OAK
Pace Project No.: 10343368

Dear Mr. McColloch:

Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10343368

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

525 N 8th Street, Salina, KS 67401

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #: 14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 42-1-37320-002 DB OAK
Pace Project No.: 10343368

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10343368001	Effluent	Air	03/31/16 09:40	04/01/16 10:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10343368

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10343368001	Effluent	TO-15	MJL, MLS	5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10343368

Sample: Effluent **Lab ID: 10343368001** Collected: 03/31/16 09:40 Received: 04/01/16 10:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient		Analytical Method: TO-15							
cis-1,2-Dichloroethene	432	ug/m3	43.4	13.2	53.6		04/11/16 16:06	156-59-2	A3
trans-1,2-Dichloroethene	6.3	ug/m3	1.1	0.51	1.34		04/11/16 01:31	156-60-5	
Tetrachloroethene	2220	ug/m3	36.9	14.9	53.6		04/11/16 16:06	127-18-4	A3
Trichloroethene	233	ug/m3	0.74	0.37	1.34		04/11/16 01:31	79-01-6	
Vinyl chloride	41.0	ug/m3	0.35	0.26	1.34		04/11/16 01:31	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10343368

QC Batch:	AIR/25651	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	TO15 MSV AIR - AMBIENT
Associated Lab Samples:	10343368001		

METHOD BLANK: 2228329 Matrix: Air

Associated Lab Samples: 10343368001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	04/10/16 12:26	
Tetrachloroethene	ug/m3	<0.28	0.69	04/10/16 12:26	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	04/10/16 12:26	
Trichloroethene	ug/m3	<0.28	0.55	04/10/16 12:26	
Vinyl chloride	ug/m3	<0.20	0.26	04/10/16 12:26	

LABORATORY CONTROL SAMPLE: 2228330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	47.0	117	65-139	
Tetrachloroethene	ug/m3	69	77.6	113	60-142	
trans-1,2-Dichloroethene	ug/m3	40.3	44.6	111	67-137	
Trichloroethene	ug/m3	54.6	63.5	116	60-144	
Vinyl chloride	ug/m3	26	28.4	109	63-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10343368

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10343368001

[1] The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

ANALYTE QUALIFIERS

A3 The sample was analyzed by serial dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10343368

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10343368001	Effluent	TO-15	AIR/25651		

REPORT OF LABORATORY ANALYSIS

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10343368



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page: 24491 of					
Company: SHANNON WILSON, INC. Address: 2110 LAGANN LANE, SUITE 101 MADISON, WI 53713 Email To: msw@shawnwi.com Phone: 608-442-5223 Fax: 608/442-7015 Requested Due Date/TAI:	Report To: MARK MCCOLLOCH Copy To: --- Purchase Order No.: --- Project Name: DBGAK Project Number: 42-1-37328-002	Attention: MARK MCCOLLOCH Company Name: SHANNON WILSON Address: 2110 LAGANN LANE, SUITE 101 Pace Quote Reference: Pace Project Manager/Sales Rep. Pace Profile #:						
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	Method: M10 3C-Fixed Gas (%) TO-3 TO-3M (Methane) TO-4 (PCBS) TO-13 (PAH) TO-14 TO-15 TO-15 Short List*	Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State _____ Reporting Units kg/m ³ _____ mg/m ³ _____ PPBV _____ PPMV _____ Other _____ Report Level II. ___ III. ___ IV. ___ Other _____					
# ITEM	MEDIA CODE	PID Reading (Client only)	COLLECTED	Summa Can Number	Flow Control Number	3C-Fixed Gas (%)	Temp in °C	SAMPLE CONDITIONS
1	6LC		COMPOSITE - DATE TIME DATE TIME 3-31-16 940 3-31-16 940	2124				Received on Ice Y/N Custody Sealed Cooler Y/N Samples Intact Y/N
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Comments:

RELINQUISHED BY / AFFILIATION: MARK S. MCCOLLOCH
DATE: 3/31/16
TIME: 940
ACCEPTED BY / AFFILIATION: [Signature]
DATE: 3/31/16
TIME: 1030
Pace

SAMPLER NAME AND SIGNATURE
PRINT NAME: MARK S. MCCOLLOCH
SIGNATURE: [Signature]
DATE SAVED: 03-31-16

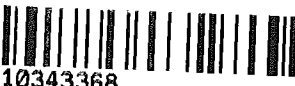
ORIGINAL

Air Sample Condition Upon Receipt

Client Name: Shannon + Wilson

Project #:

WO# : 10343368



10343368

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

Tracking Number: 6637 50360204

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

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

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): 6 Corrected Temp (°C): 0 Thermom. Used: B88A912167504 72337080
 B88A9132521491 80512447

Temp should be above freezing to 6°C Correction Factor: 0 Date & Initials of Person Examining Contents: 4/1/16

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received: rec gauge

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [Signature] Date: 4/1/16

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



Pace Analytical Services, Inc.
 1700 Elm Street – Suite 200
 Minneapolis, MN 55414
 Phone: 612.607.1700
 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
 Phone: (920)374-2034

Lab Project Number: 10343368
 Project Name: 42-1-37320-002 DB OAK

Lab Sample No: 10343368001
 Client Sample ID: Effluent

ProjSampleNum: 10343368001
 Matrix: Air

Date Collected: 03/31/16 9:40
 Date Received: 04/01/16 10:30

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	107	ppbv	10.8	53.6	04/11/16 16:06	MLS 156-59-2	A3
Tetrachloroethene	322	ppbv	5.4	53.6	04/11/16 16:06	MLS 127-18-4	A3
trans-1,2-Dichloroethene	1.6	ppbv	0.27	1.34	04/11/16 1:31	MJL 156-60-5	
Trichloroethene	42.7	ppbv	0.14	1.34	04/11/16 1:31	MJL 79-01-6	
Vinyl chloride	15.8	ppbv	0.13	1.34	04/11/16 1:31	MJL 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
 Units Conversion Request



Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
Phone: (920)374-2034

Lab Project Number: 10343368
Project Name: 42-1-37320-002 DB OAK

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

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

[A3] The sample was analyzed by serial dilution.

SUPPLEMENTAL REPORT

Units Conversion Request

May 25, 2016

Mr. Mark McColloch
Shannon & Wilson, Inc.
2110 Luann Lane
Suite 101
Madison, WI 53713

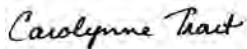
RE: Project: 42-1-37320-002 DB OAK
Pace Project No.: 10348350

Dear Mr. McColloch:

Enclosed are the analytical results for sample(s) received by the laboratory on May 13, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10348350

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

525 N 8th Street, Salina, KS 67401

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #: 14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 42-1-37320-002 DB OAK
Pace Project No.: 10348350

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10348350001	EFFLUENT	Air	05/12/16 15:11	05/13/16 09:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10348350

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10348350001	EFFLUENT	TO-15	NCK	5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10348350

Sample: EFFLUENT **Lab ID: 10348350001** Collected: 05/12/16 15:11 Received: 05/13/16 09:25 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient		Analytical Method: TO-15							
cis-1,2-Dichloroethene	41.9	ug/m3	1.1	0.33	1.34		05/20/16 23:14	156-59-2	
trans-1,2-Dichloroethene	1.1	ug/m3	1.1	0.51	1.34		05/20/16 23:14	156-60-5	
Tetrachloroethene	223	ug/m3	0.92	0.37	1.34		05/20/16 23:14	127-18-4	
Trichloroethene	47.0	ug/m3	0.74	0.37	1.34		05/20/16 23:14	79-01-6	
Vinyl chloride	2.1	ug/m3	0.35	0.26	1.34		05/20/16 23:14	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10348350

QC Batch:	AIR/25953	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	TO15 MSV AIR - AMBIENT
Associated Lab Samples:	10348350001		

METHOD BLANK: 2265450 Matrix: Air

Associated Lab Samples: 10348350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	05/20/16 12:59	
Tetrachloroethene	ug/m3	<0.28	0.69	05/20/16 12:59	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	05/20/16 12:59	
Trichloroethene	ug/m3	<0.28	0.55	05/20/16 12:59	
Vinyl chloride	ug/m3	<0.20	0.26	05/20/16 12:59	

LABORATORY CONTROL SAMPLE: 2265451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	43.7	108	65-139	
Tetrachloroethene	ug/m3	69	80.7	117	60-142	
trans-1,2-Dichloroethene	ug/m3	40.3	44.0	109	67-137	
Trichloroethene	ug/m3	54.6	67.5	124	60-144	
Vinyl chloride	ug/m3	26	27.7	107	63-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10348350

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 42-1-37320-002 DB OAK

Pace Project No.: 10348350

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10348350001	EFFLUENT	TO-15	AIR/25953		

REPORT OF LABORATORY ANALYSIS


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Air Sample Condition Upon Receipt

Client Name: Shannon & Wilson

Project #:

WO#: 10348350



10348350

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

Tracking Number: 6637 5036 6923

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

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ **Temp Blank rec:** Yes No

Temp. (TO17 and TO13 samples only) (°C): _____ **Corrected Temp (°C):** _____ **Thermom. Used:** B88A912167504 151401163
 B88A0143310098 151401164

Temp should be above freezing to 6°C **Correction Factor:** _____ **Date & Initials of Person Examining Contents:** 5-13-16 *WJ*

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive				11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** Yes No

Person Contacted: _____ **Date/Time:** _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** _____

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



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 1700 Elm Street – Suite 200
 Minneapolis, MN 55414
 Phone: 612.607.1700
 Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
 Phone: (920)374-2034

Lab Project Number: 10348350
 Project Name: 42-1-37320-002 DB OAK

Lab Sample No: 10348350001
 Client Sample ID: EFFLUENT

ProjSampleNum: 10348350001
 Matrix: Air

Date Collected: 05/12/16 15:11
 Date Received: 05/13/16 9:25

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
cis-1,2-Dichloroethene	10.4	ppbv	0.27	1.34	05/20/16 23:14	NCK 156-59-2	
Tetrachloroethene	32.3	ppbv	0.13	1.34	05/20/16 23:14	NCK 127-18-4	
trans-1,2-Dichloroethene	0.27	ppbv	0.27	1.34	05/20/16 23:14	NCK 156-60-5	
Trichloroethene	8.6	ppbv	0.14	1.34	05/20/16 23:14	NCK 79-01-6	
Vinyl chloride	0.81	ppbv	0.13	1.34	05/20/16 23:14	NCK 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
 Units Conversion Request



Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Shannon & Wilson, Inc.
Phone: (920)374-2034

Lab Project Number: 10348350
Project Name: 42-1-37320-002 DB OAK

PARAMETER FOOTNOTES

SUPPLEMENTAL REPORT
Units Conversion Request