LABELLA Associates, D.P.C.
Engineering
Architecture
Environmental
Planning

Periodic Review Report:
August 6, 2015 to August 6, 2016
NYSDEC BCP Site No. C828134

Location:

Former Steve Joy's Sunoco
3865 & 3875 West Henrietta Road
Town of Henrietta, New York

Prepared for:

RJ Dorschel Corporation
3817 West Henrietta Road
Rochester, New York 14623

LaBella Project No. 209395

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300 State Street
Rochester, New York 14614

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1.0 INTRODUCTION

LaBella Associates, D.P.C. (LaBella) is pleased to submit this Periodic Review Report (PRR) for the Former Steve Joy's Sunoco property located at 3865 and 3875 West Henrietta Road (NYS Route 15) (hereinafter referred to as the "Site") under the New York State (NYS) Brownfield Cleanup Program (BCP) Site #C828134 administered by New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index #B8-0719-06-06, Site # C828134. A Site Location Map is included as Figure 1.

The Site is located in the Town of Henrietta, County of Monroe, New York and is comprised of the following two (2) parcels of land:

- 3865 West Henrietta Road, an approximate 1-acre parcel identified as Block 161.15-1 and Lot 20.1; and
- 3875 West Henrietta Road, an approximate 1.5-acre parcel identified as Block 161.19-1 and Lot 9.

The Site is improved with the following structures:

- A 4,692$^{\pm}$ square foot building on the 3865 West Henrietta Road parcel; and
- A 12,468 $^{\pm}$ square foot building on the 3875 West Henrietta Road parcel.

The properties surrounding the Site are commercial properties. The properties directly adjacent to the Site and their current occupants are as follows:

- North – 3861 West Henrietta Road, Pizza Hut Restaurant;
- East – West Henrietta Road Right-of-way (ROW), then 3870 West Henrietta Road, Lewis General Tire, Inc.;
- South – 3883 West Henrietta Road, an auto dealership; and
- West – overflow parking lots associated with the 3883 West Henrietta Road property.

A Site Plan (included as Figure 2), illustrates the Site boundaries and the adjacent properties.

1.1 Environmental History

Previous environmental investigations (Pre-BCP work) at the Site identified the nature and extent of contamination to be limited to petroleum contamination in soil, groundwater, and soil vapor. The apparent source of the petroleum impacts was from six petroleum underground storage tanks (USTs) and five hydraulic lifts.

The Pre-BCP and BCP Investigation work included advancing 73 soil borings, excavating nine test pits, installing 16 groundwater monitoring wells at the Site; installation of sub-slab soil vapor sampling points; and, sampling sub-slab, soil vapor and indoor/outdoor air. Based on the work completed, it was determined that the predominant contaminants were petroleum-related volatile organic compounds (VOCs) in soil and groundwater.

Petroleum-related semi-volatile organic compounds (SVOCs), chlorinated solvents, and metals were also detected in groundwater along with a limited area of metals in surface soils. Based on these findings, the following specific areas of contamination were identified:

- Petroleum impacted soil and groundwater between the 3865 Parcel Building and West Henrietta Road in the area of the former pump islands was identified at concentrations above the NYSDEC Part 375-6 Restricted Commercial Use Soil Cleanup Objectives and the NYSDEC Part 703 Groundwater Standards;
- Petroleum impacted soil directly north of the central portion of the 3875 Building associated with a UST was identified in the field as impacted;
- Petroleum impacts in soil around hydraulic lifts within the western portion of the 3875 Building was identified in field observations;
- An area of surface soils along West Henrietta Road impacted with the metals (arsenic and barium) was identified at concentrations above the NYSDEC Part 375-6 Restricted Commercial Use Soil Cleanup Objectives;
- Concentrations of VOCs in the sub-slab soil vapor and indoor air at both buildings at the Site were identified; and
- VOCs and metals in groundwater on the 3875 Parcel were identified at concentrations above the NYSDEC Part 703 Groundwater Standards.

The Remedial Measures completed at the Site have included two (2) Interim Remedial Measures (IRMs) consisting of the removal of USTs and soil. The soil removed during the IRM was transported to an off-site location for treatment in a bio-cell. In addition, a final remedy at the Site consisted of the removing hydraulic lifts, soil and groundwater. The remedies and Areas of Concern (AOC) designation from the Remedial Action Work Plan (RAWP) are summarized below:

- Removal and bioremediation of approximately 1,740 cubic yards of petroleum-impacted soils from AOC #1. This resulted in removing all soils above the NYSDEC Part 375-6.8(b) Protection of Groundwater SCOs with the exception of two areas due to underground utilities, the West Henrietta Road ROW and the on-site building.
- Removal and disposal of six underground storage tanks and their contents, which consisted of approximately 8,000 gallons of petroleum impacted waters and 600 gallons of waste oil.
- Removal and disposal of five hydraulic lifts (AOC #2) and removal and off-site disposal of approximately 85 tons of petroleum impacted soil from seven hydraulic lift locations (i.e., 2 former locations and the 5 lifts removed as part of this project).
- Removal and disposal of a 5-ft. by 5-ft. area to 1-ft. in depth of surface soils impacted with heavy metals. The heavy metals were identified during the RI in surface soil sample SS-1 located along the eastern edge of the 3865 West Henrietta property boundary and was identified as AOC #5.
- Installation of a sub-slab depressurization system (SSDS) to mitigate the potential for vapor intrusion within (AOC #3) the existing building at the 3865 West Henrietta Road parcel. Pressure field extension testing was completed on each of the monitoring points after the installation of the SSDS, and confirmed the system influences the entire slab area. An SSDS was also installed at the 3875 Parcel building during redevelopment of the Mini Cooper dealership in 2012.

- An Environmental Easement was executed and recorded to restrict land use and prevent future exposure to any contamination remaining at the Site.
- Development and implementation of a Site Management Plan (SMP) for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting.

2.0 PURPOSE AND SCOPE OF WORK

The purpose of this report is to present the monitoring work completed at the Site during the time period of August 6, 2015 to August 6, 2016. This work was completed in general accordance with the provisions identified in the SMP. As required in the SMP, this report includes the following information:

- Identification, assessment and certification of all Engineering Controls/Institutional Controls (ECs/ICs) required by the remedy for the Site;
- Results of the required annual site inspections and severe condition inspections, if applicable;
- All applicable inspection forms and other records generated for the Site during the reporting period in electronic format (included in report);
- A summary of any discharge monitoring data and/or information generated during the reporting period with comments and conclusions;
- Data summary tables and graphical representations of contaminants of concern by media, which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These will include a presentation of past data as part of an evaluation of contaminant concentration trends;
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted electronically in a NYSDEC-approved format;
- A Site evaluation, which includes the following:
    - The compliance of the remedy with the requirements of the Site-specific RAWP;
    - Any new conclusions or observations regarding Site contamination based on inspections or data generated by the Monitoring Plan for the media being monitored;
    - Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan; and
    - The overall performance and effectiveness of the remedy.

3.0 ANNUAL MONITORING

The original SMP identified the ongoing monitoring of the performance of the remedy, via semi-annual sampling of two (2) existing groundwater monitoring wells (3865 Parcel: MW-7 and 3875 Parcel: MW-3R). The original SMP indicated that monitoring the overall reduction in contamination on-site would be conducted for the first two (2) years, with the frequency thereafter to be determined by NYSDEC. The NYSDEC approved annual monitoring of the two (2) wells for VOCs only in a letter dated July 22, 2013. Trends in contaminant levels in groundwater in the affected areas will be evaluated to determine if the remedy continues to be effective in achieving remedial goals.

The original SMP also required a semi-annual inspection of the SSDS and semi-annual monitoring of the biocell soils. In their July 22, 2013 letter, the NYSDEC also approved discontinuing monitoring of the biocell soils.

The current monitoring program is summarized in the following table and was included in the June 2014 SMP update.

Schedule of Monitoring/Inspections

Monitoring Program	Frequency*	Matrix	Analysis
Groundwater Monitoring	Annual	Groundwater	1) VOCs using USEPA Method 8260 (NYSDEC STARS-list for 3865 parcel wells and TCL VOCs for 3875 parcel wells)
Sub-Slab Depressurization System Inspection	Annual	Sub-Slab Vapor	None

* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH

3.1 Groundwater Monitoring

Groundwater monitoring was conducted in October 2015 and June 2016. Monitoring wells MW-7 and MW-3R (Replacement Well) were both sampled on October 6, 2015 and June 14-15, 2016. The locations of these wells are shown on Figure 3.

Static water levels (SWLs) were collected during the sampling events. The groundwater samples were collected using a modified low-flow sampling procedure with a peristaltic pump. During the sampling events, disposable tubing was utilized between wells, and, as such, decontamination of equipment was not required.

During the sampling events, field measurements of water quality parameters were collected using a Horiba U-52-2 water quality meter equipped with an in-line flow cell. During the sampling events, the following field measurements were collected:

- pH
- Conductivity
- Temperature
- Oxygen Reduction Potential (ORP)
- Turbidity
- Dissolved Oxygen (DO)

During the sampling events, water quality parameter readings were recorded at regular time intervals prior to the collection of groundwater samples. Water quality stabilization criteria are summarized in the following table.

Measurement	Maximum Variability for 3 Consecutive Readings
pH	+/- 0.1 standard units
Conductivity	+/- 3 %
Oxidation Reduction Potential	+/- 10 mV
Turbidity	+/- 10 %
Dissolved Oxygen	+/- 10 %

During the sampling events, the required criteria were met prior to sample collection at MW-3R. In addition, the SWL in MW-3R was monitored during the sampling events to confirm that drawdown in the well was minimized.

Due to very limited water volume in MW-7, on October 6, 2015 the groundwater sample was collected from this well was collected prior to the well going dry. On June 14, 2016, MW-7 was purged dry quickly, and the well was allowed to recharge overnight. A groundwater sample was collected from MW-7 on the morning of June 15, 2016

Groundwater sampling logs that include the in-field parameter measurements are included in Appendix A.

Environmental Science Corporation of Mt. Juliet, Tennessee (ESC) analyzed the groundwater samples collected during the groundwater monitoring events. ESC is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory. The samples were analyzed for NYSDEC CP-51-list and United States Environmental Protection Agency (USEPA) Target Compound List (TCL) VOCs using USEPA Method 8260.

All laboratory data from the groundwater monitoring events were reported in an Analytical Services Protocol (ASP) Category B Deliverables and Data Usability Summary Reports (DUSRs) were prepared for the data. Copies of the DUSRs are included in Appendix B. As previously requested by the NYSDEC, the ASP Category B laboratory analytical reports will be provided separately.

3.2 Sub-Slab Depressurization System (SSDS) Monitoring

This section discusses the SSDS monitoring performed on October 6, 2015 and July 7, 2016 in the two (2) on-site buildings.

3865 West Henrietta Road Building

The SSDS in the 3865 West Henrietta Road building was monitored on October 6, 2015 and July 7, 2016 in order to verify proper operation of the system. Because the manometer installed on this SSDS is now located within the wall of the women's restroom and is accessible via a removable wall panel, NYSDEC requested in October 2015 that an alarm be installed on the SSDS. The purpose of the alarm is to monitor proper operation of the SSDS; this alarm was installed in late 2015.

The location of the SSDS venting point/fan that operates the SSDS for the 3865 Building is shown on

Figure 3, and an as-built drawing of the SSDS is included in Appendix E. At the fan location, the following inspections were made:

- the in-line U-tube manometer on the suction side of the piping system was observed to determine a pressure differential of approximately 2.5 inches of water column which is consistent with historic readings and indicates the SSDS is operating properly;
- the condition of the piping was observed to determine if any portion of the piping required repair;
- the fan was working properly; and
- labeling of the system was intact.

Based upon the inspections, the SSDS appeared to be in good working order (i.e., the manometer indicated the SSDS was working, the fan was observed to be working, and the piping appeared in good condition). Copies of the inspection forms and photographs from the inspections are included in Appendices C and D.

3875 West Henrietta Road Building

The SSDS in the 3875 West Henrietta Road building was monitored on October 6, 2015 and July 7, 2016 in order to verify proper operation of the system. The SSDS for the 3875 Building is shown in the as-built drawings included as Appendix E. At the fan location, the following inspections were made:

- the sub-slab monitoring points were measured with a digital micro-manometer to determine a pressure differential between the sub-slab and indoor air. The results of this monitoring are summarized in the following table;

Location	October 6, 2015 Monitoring Event		July 7, 2016 Monitoring Event	
	Valve 1 Measurement	Valve 2 Measurement	Valve 1 Measurement	Valve 2 Measurement
Northern Point	- 0.760	- 0.443	- 0.593	- 0.198
Southern Point	- 0.304	- 0.255	- 0.237	- 0.187

- the condition of the piping was observed to determine if any portion of the piping required repair;
- the fan was working properly; and
- labeling of the system was intact.

Based upon the inspections, the SSDS appeared to be in good working order (i.e., the micro-manometer readings indicated the SSDS was working, the fan was observed to be working, and the piping appeared in good condition). Copies of the inspection forms are included in Appendices C and D.

3.3 Deviations from SMP

No deviations were encountered during this monitoring period.

4.0 GROUNDWATER FLOW CONTOURS

Although static water level measurements were collected during the October 2015 and June 2016 groundwater monitoring events, these sampling events included only two (2) monitoring wells. Historic monitoring information previously presented to the NYSDEC describes the groundwater flow regime at the Site. For informational purposes, groundwater contour maps from October 2011 and July 2012 are included as Figures 4A and 4B.

5.0 SUMMARY OF GROUNDWATER MONITORING

Groundwater monitoring events were performed in October 2015 and June 2016, and included two (2) existing groundwater monitoring wells (3865 Parcel: MW-7 and 3875 Parcel: MW-3R) at the locations shown on Figure 3.

The results of the groundwater monitoring are summarized in Table 1 (VOCs) and are compared to the NYSDEC Part 703 groundwater standards. As summarized in the attached Table 1 and the following table, VOCs were reported above NYSDEC Part 703 groundwater standards in the groundwater samples collected during the groundwater monitoring events.

Well ID	Site Parcel	VOC(s) above Part 703 Groundwater Standards	
		October 2015 Sampling Event	June 2016 Sampling Event
MW-7	3865 Parcel	Benzene; Ethylbenzene; sec-butylbenzene; n-Propylbenzene; Isopropylbenzene; p-isopropyltoluene; n-Butylbenzene; Naphthalene; Toluene; 1,2,4-Trimethylbenzene; 1,3,5-Trimethylbenzene; Xylenes; Chlorobenzene; Cyclohexane; and Methylcyclohexane	Benzene; Ethylbenzene; sec-butylbenzene; n-Propylbenzene; Isopropylbenzene; p-isopropyltoluene; n-Butylbenzene; Naphthalene; Toluene; 1,2,4-Trimethylbenzene; 1,3,5-Trimethylbenzene; Xylenes; Chlorobenzene; Cyclohexane; and Methylcyclohexane
MW-3R	3875 Parcel	Chlorobenzene	Chlorobenzene

6.0 SITE EVALUATION

The annual monitoring work conducted from August 6, 2015 to August 6, 2016 was completed in accordance with the SMP, with any exceptions noted in Section 3.3.

Groundwater Monitoring

Most of the previously existing groundwater monitoring wells at the Site have been destroyed or paved over during the redevelopment activities at the Site.

The analytical results from the October 2015 and June 2016 groundwater sampling events indicate that VOC concentrations appear stable and may be decreasing slightly in MW-7 and MW-3R, as

shown in the graphs included in Appendix F. In addition, with regard to MW-3R, the reported VOC concentrations are relatively low-level, and only Chlorobenzene exceeds its associated Part 703 Groundwater Standard.

Based on the above, no changes to the current monitoring program are proposed.

The remedial program outlined in the SMP has effectively achieved progress toward meeting the remedial objectives for the Site. Continued monitoring of the SSDS and the implementation of the SMP should ultimately achieve the remedial objectives for the Site. The next groundwater sampling event is scheduled for Spring 2017.

7.0 INSTITUTIONAL AND ENGINNERING CONTROLS CERTIFICATION

The completed NYSDEC Institutional and Engineering Controls Certification Form is included in Appendix G.

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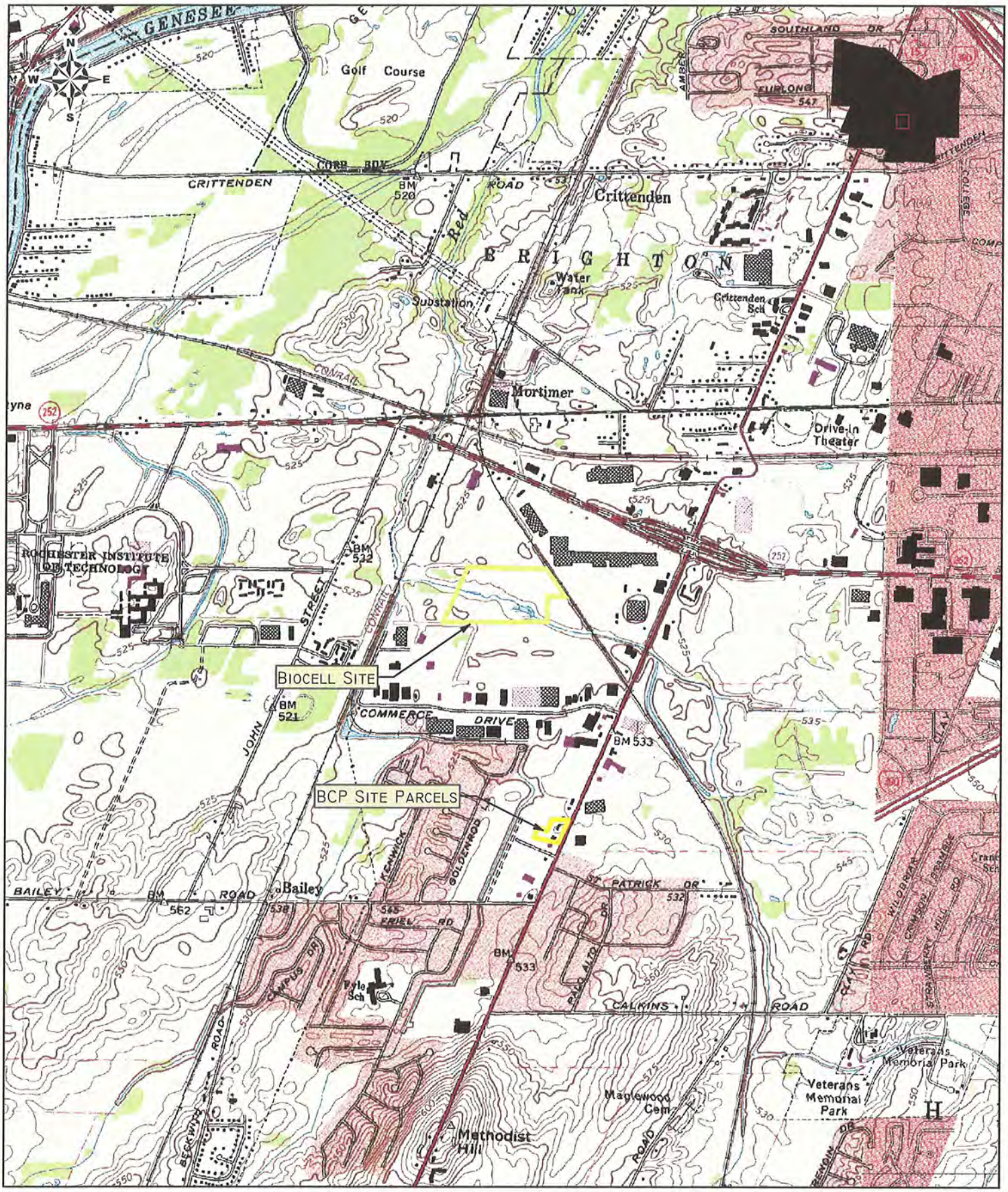
FIGURES



PROJECT DRAWING NUMBER 209395 FIGURE 1	**SITE LOCATION MAP** 1:24,000 ISSUED FOR: REVIEW DATE: 8/28/09 DESIGNED BY: RCN DRAWN BY: RCN REVIEWED BY: DPN	PROJECT NAME SITE MANAGEMENT PLAN BCP SITE #C8281324 3865 & 3875 WEST HENRIETTA RD ROCHESTER, NY 14623	LABELLA Associates, P.C. 300 STATE STREET ROCHESTER, NY 14614 P: (585) 454-6110 F: (585)454-3066 www.labellapc.com

Y:\RJ Dorschel Corp\209395\Drawings\PRR 2011\Fig2 Site Area Map.mxd

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Periodic Review Report
NYSDEC BCP Site #C8281324
3865 & 3875 West Henrietta Rd
Henrietta, New York

R.J. Dorschel Corporation

Site Plan and Surrounding Properties

N
W E
S

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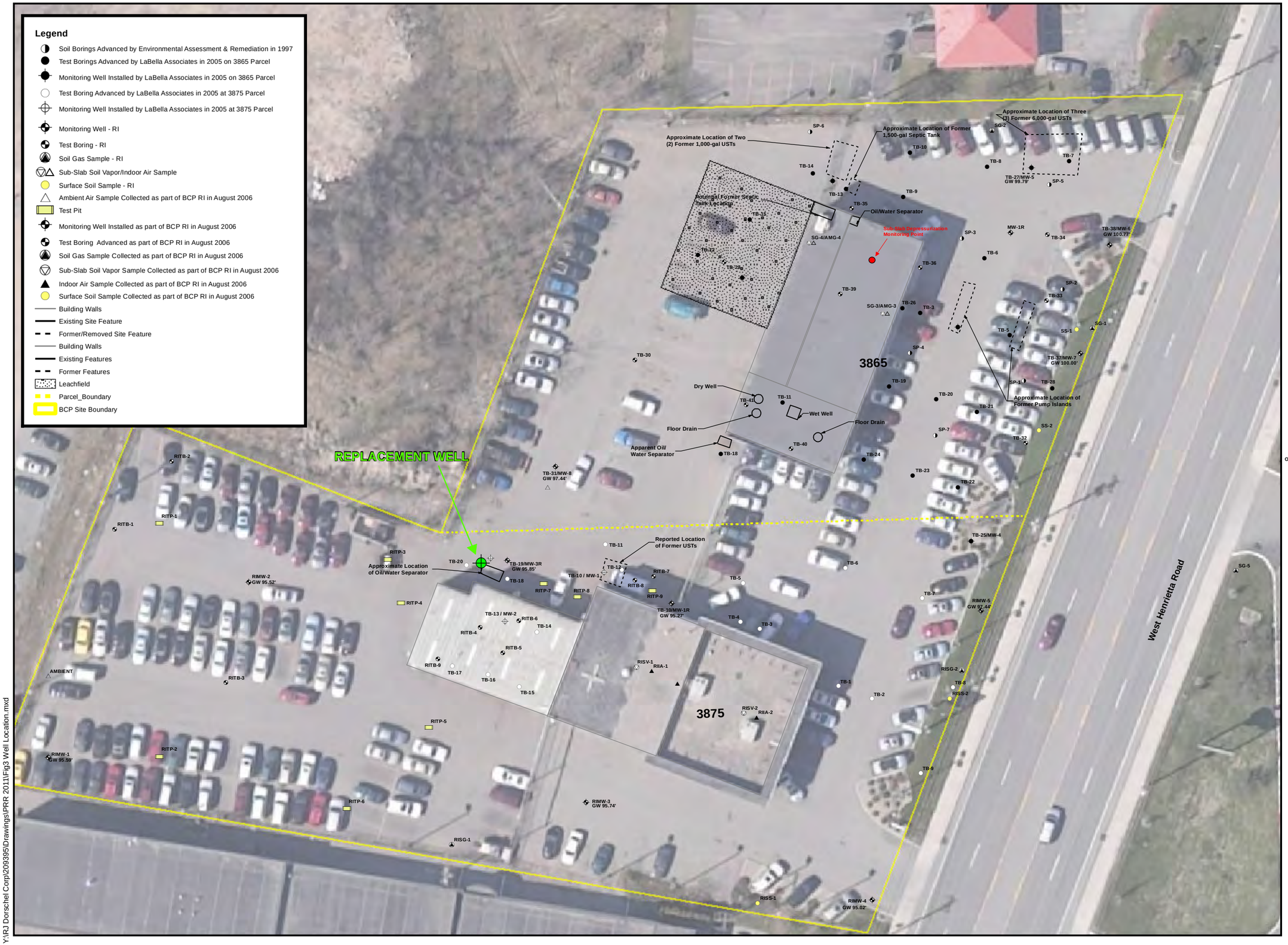
FIGURE 2



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Groundwater Monitoring Well Locations and Location of Sub-Slab Depressurization Fan

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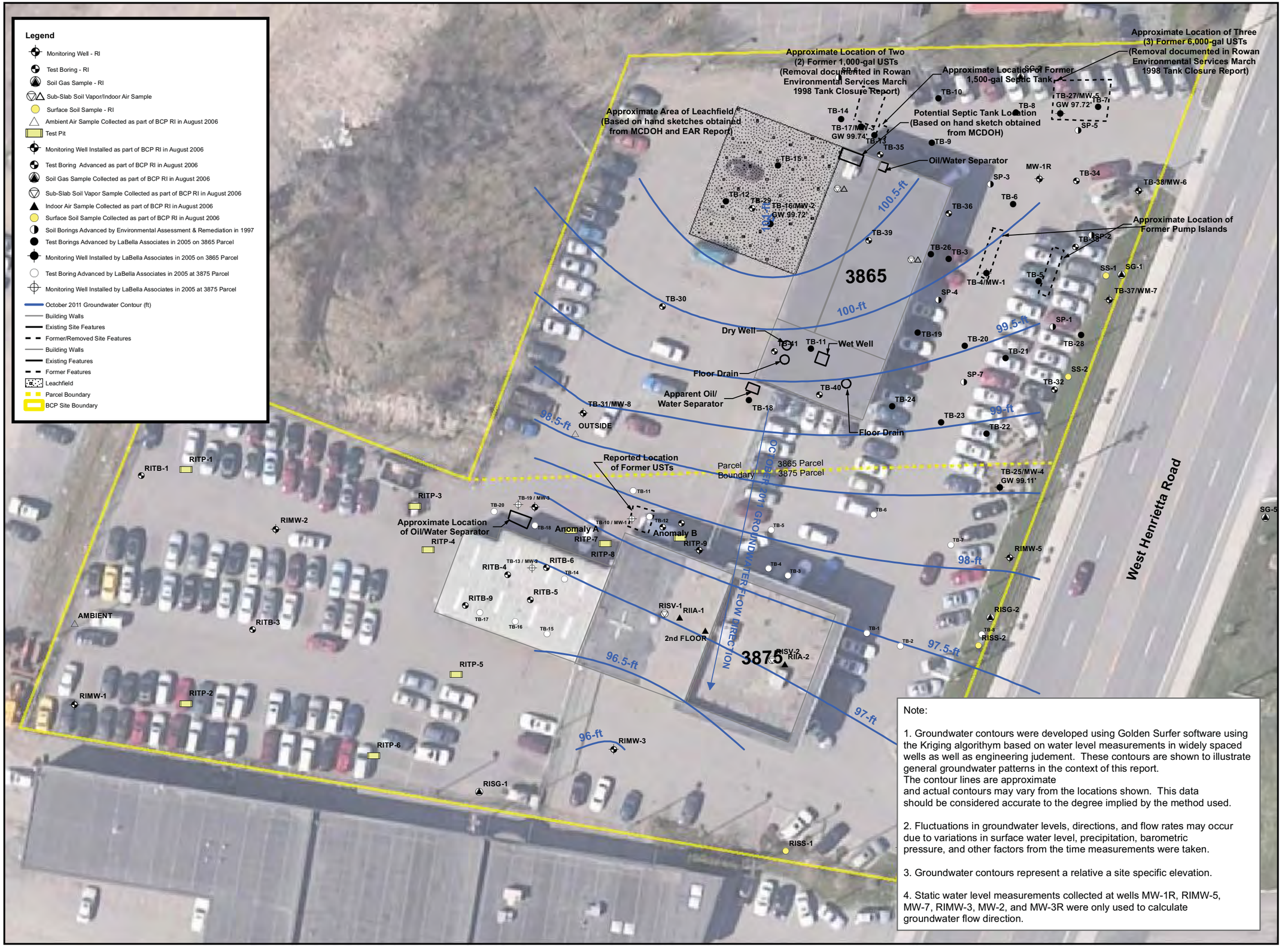
FIGURE 3

Y:\RJ Dorschel Corp\209395\Drawings\PRR 2011\Fig3 Well Location.mxd



Note:

1. Groundwater contours were developed using Golden Surfer software using the Kriging algorithym based on water level measurements in widely spaced wells as well as engineering judement. These contours are shown to illustrate general groundwater patterns in the context of this report. The contour lines are approximate and actual contours may vary from the locations shown. This data should be considered accurate to the degree implied by the method used.

2. Fluctuations in groundwater levels, directions, and flow rates may occur due to variations in surface water level, precipitation, barometric pressure, and other factors from the time measurements were taken.

3. Groundwater contours represent a relative a site specific elevation.

4. Static water level measurements collected at wells MW-1R, RIMW-5, MW-7, RIMW-3, MW-2, and MW-3R were only used to calculate groundwater flow direction.

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Periodic Review Report
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October 2011 Groundwater Contours and Site Location Plan

0 5 10 20

1 inch = 40 feet

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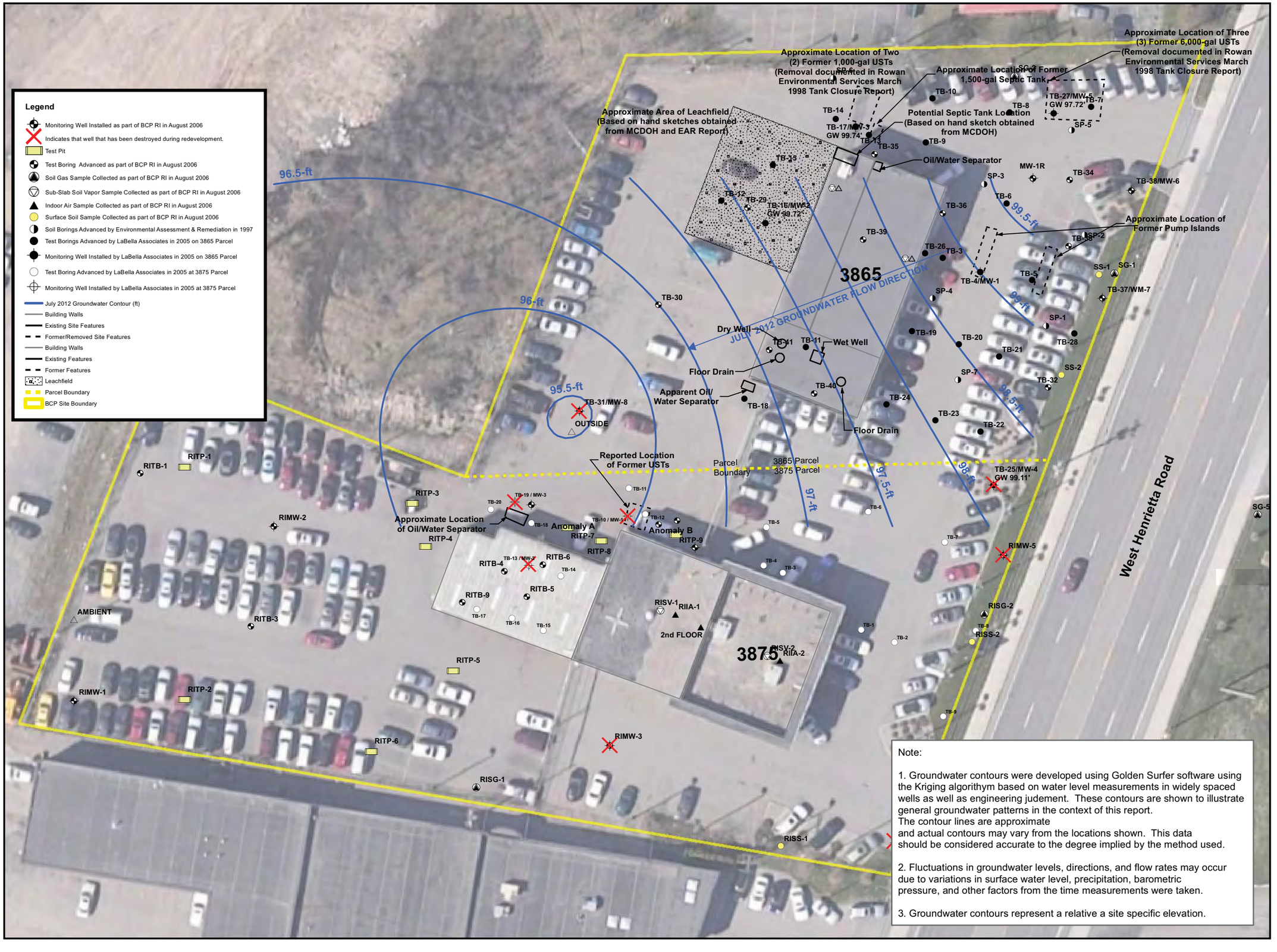
FIGURE 4A



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Periodic Review Report
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July 2012
Groundwater Contours and Site Location Plan

N
W E
S

0 5 10 20

1 inch = 40 feet

209395

FIGURE 4B

Y:\RJ Dorschel Corp\209395\Drawings\PRR 2011\Fig5B Groundwater Contour Oct 2010.mxd

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TABLE 1

Groundwater Monitoring Results - VOCs

Table 1

Groundwater Monitoring
3865 & 3875 West Henrietta Road, Henrietta, New York
NYSDEC Brownfield Cleanup Program ID No. C828134

Summary of Detected Volatile Organic Compounds (VOCs) in Groundwater
Test Results in Micrograms per Liter (µg/L) or Parts Per Billion (PPB)

Constituent	3865 Parcel											3875 Parcel								NYSDEC Part 703: Groundwater Standard
	MW-7											MW-3R								
	September 2006	May 2007	June 2010	October 2010	May 2011	October 2011	July 2012	March 2014	May 2015	October 2015	June 2016	May 2007	June 2010	October 2010	May 2011	October 2011	April 2014	May 2015	October 2015	June 2016	
Petroleum-Related Volatile Organic Compounds																				
Benzene	**370**	**410**	**740** E	**750** D	ND<5.0	**730**	**870**	**1,150**	**1,200**	**816**	**848**	ND<5.0	**2.3** J	**2.8** J	**3.1** J	**31.7**	ND<0.7	ND<50	ND<1.00	ND<1.00	1
Ethyl ether	---	---	---	---	---	---	---	---	---	---	---					ND<1.0	---	ND<1.0	---	---	Not Available
Ethylbenzene	**880**	**790** E	**250** E	**620** D	ND<5.0	**266**	**610**	**1050**	**950**	**786**	**258**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	**5.2**	ND<2.0	ND<1.0	ND<1.00	ND<1.00	5
sec-Butylbenzene	ND <50	**23**	3 J	**5.6**	ND<5.0	ND<100	**11**	ND<40.0	**7.7**	**7.89**	**6.29**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<2.0	ND<1.0	ND<1.00	ND<1.00	5
n-Propylbenzene	ND <50	**260** E	**13**	**36**	ND<5.0	ND<100	**86**	**108**	**110**	**89.1**	**18.2**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<2.0	ND<1.0	ND<1.00	ND<1.00	5
Isopropylbenzene	**78**	**91**	**13**	**33**	ND<5.0	ND<100	**44**	**49.9**	**49**	**43.0**	**21.0**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<2.0	ND<1.0	ND<1.00	ND<1.00	5
p-Isopropyltoluene	ND <50	**22**	ND<5.0	---	ND<5.0	ND<100	ND<5.0	ND<40.0	**7.1**	**7.27**	**6.71**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<2.0	ND<1.0	ND<1.00	ND<1.00	5
n-Butylbenzene						ND<100	**32**	**28.8** J	**12**	**11.0**	4.16						ND<2.0	ND<1.0	ND<1.00	ND<1.00	5
Naphthalene	ND <50	**1,100** E	**240** BE	**330** DJ	ND<5.0	**419**	**480**	**478**	**600**	**423**	**620**	ND<5.0	1.4 BJ	ND<5.0	ND<5.0	ND<1.0	ND<5.0	ND<5.0	ND<5.00	ND<5.00	10
Toluene	**980** D	**690** E	**260** E	**180**	ND<5.0	**106**	**35**	**156**	**120**	**73.9**	**71.9**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1.7	ND<2.0	ND<5.0	ND<5.00	ND<5.00	5
1,2,4-Trimethylbenzene	ND <50	**1,100** E	**620** E	**730** D	ND<5.0	**1,400**	**1,200**	**1,390**	**1,300**	**1,380**	**1540**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<2.0	1.3	ND<1.00	ND<1.00	5
1,3,5-Trimethylbenzene	ND <50	**630** E	**210** E	**190** DJ	ND<5.0	**422**	**320**	**322**	**200**	**196**	**197**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<2.0	ND<1.0	ND<1.00	ND<1.00	5
m,p-Xylene	ND <50	**2,100** E	**2,300** E	**4,700** D	ND<5.0	**6,190**	**2,800**	**4,190**	**2,900**	**2,620**	**3,220**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2.2	ND<2.0	2.1	ND<2.00	ND<2.00	5
o-Xylene	ND <50	**760** E	**450** E	**690** D	ND<5.0	**502**	**35**	**363**	**230**	**143**	**332**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	3.9	ND<2.0	ND<1.0	ND<1.00	ND<1.00	5
Tert-amyl methyl ether	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3.4	---	---	---	---	Not Available
Tert-butanol / butyl alcohol	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	12.8	---	---	---	---	Not Available
Methyl-tert-Butyl Ether	ND <10	ND<5	2.4 J	2.4 J	5.6	ND<100	**18**	ND<40.0	ND<1.0	ND <1.0 U	ND<1.00	2 J	ND<5.0	ND<5.0	1.2 J	**22.5**	2.97	2.5	1.56	2.25 J	10
Solvent-Related Volatile Organic Compounds																					
Acetone	40 J	ND<5						ND<200	**140**	ND <50.0	ND <50.0	ND<5.0	42		ND<5.0	ND<10.0	ND<10.0	ND<50	ND <50.0	ND <50.0	50
2-Butanone	ND<50	ND<5						ND<200	ND<10	ND <10.0	ND <10.0	ND<5.0	8.1		ND<5.0	ND<10.0	ND<10.0	ND<10	ND <10.0	ND <10.0	50
Cyclohexane	**140**	ND<5						**190** J	**100**	**113**	~~**82.3**~~ R	ND<5.0	ND<5.0		ND<5.0	Not Tested	ND<10.0	ND<1.0	ND<1.00	ND<1.00 R	5
Chlorobenzene	ND<50	ND<5						ND<40.0	ND<1.0	ND<1.00	ND<1.00	**11** J	3.9 J		**9.1**	ND<1.0	**67.3**	**120**	**106**	**103** J	5
Dichlorodifluoromethane	---	---						ND<40.0	ND<5.0	ND<5.00	ND<5.00	---	---		---	ND<2.0	ND<2.0	ND<5.0	ND<5.00	ND<5.00	5
1,2-Dichlorobenzene	ND<50	ND<5	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	ND<40.0	ND<1.0	ND<1.00	ND<1.00	ND<5.0	ND<5.0	Not Tested	ND<5.0	ND<10.0	1.4	2.7	2.42	2.41 J	5
cis-1,2-Dichloroethene	ND<50	ND<5						ND<40.0	ND<1.0	ND<1.00	ND<1.00	1 J	ND<5.0		4.4 J	ND<1.0	ND<2.0	ND<1.0	ND<1.00	ND<1.00	5
1,1-Dichloroethane	ND<50	ND<5						ND<40.0	ND<1.0	ND<1.00	ND<1.00	1 J	ND<5.0		ND<5.0	1.2	ND<2.0	1.2	ND<1.00	1.24 J	5
Methylcyclohexane	**59**	ND<5						**63.2**	**120**	ND <20 U	~~**37.6**~~ R	ND<5.0	ND<5.0		ND<5.0	Not Tested	ND<2.0	ND<1.0	ND<1.00	ND<1.00 R	5
Methylene Chloride	ND<36	ND<5						ND<100	ND<5.0	ND<5.00	ND<5.00	ND<5.0	ND<5.0		ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.00	ND<5.00	5
trans-1,2-Dichloroethene	ND<50	ND<5						ND<40.0	ND<1.0	ND<1.00	ND<1.00	ND<5.0	ND<5.0		ND<5.0	ND<1.0	ND<2.0	ND<1.0	ND<1.00	ND<1.00	5
Vinyl Chloride	ND<50	ND<5						ND<40.0	ND<1.0	ND<1.00	ND<1.00	**3** J	ND<5.0		**6.3**	1.8	ND<2.0	ND<1.0	ND<1.00	ND<1.00	2
Total VOCs	2,547	7,976	5,101	8,267 D,J	5.6	10,035	6,541	9,286	8,046	6,709	7,143.26	18	57.7	2.8 J	24.1 J	86.4	71.67	129.8	109.98	108.90	
Total VOC TICs	9,980	5,795	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	ND	ND	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Available
Total VOCs and VOC TICs	12,527	13,771	5,101	8,267	5.6	10,035	6,541	9,286	8,046	6,709	7,143.26	18	57.7	2.8	24.1	86.4	71.7	129.8	109.98	108.9	

Notes:
VOC analysis by USEPA Method 8260B TCL.
Bold Type denotes that the detected value exceeds its associated NYSDEC Part 703 Groundwater Standard.
ND<5.0 denotes compound not detected above the method detection limits.
J denotes an estimated value; the analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample
D denotes that the compound was identified in a secondary dilution performed on the sample.
E denotes that the concentration of the compound was found to exceed the calibration range for the instrument.
U is a data qualifier indicating that during data validation, it was determined that the concentration reported by the laboratory should be "interpreted as undetected."
R is a data qualifier indicating that during data validation, it was determined that the concentration reported by the laboratory should be "rejected".

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX A

Groundwater Sampling Logs

LABELLA Associates, P.C.
300 State Street
Rochester, New York 14614
Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-3R

Project Name: Dorschel Annual Groundwater Monitoring
Location: 3865 & 3875 West Henrietta Road
Project No.: 209395
Sampled By: N. Inzinna
Date: 10/6/2015
Weather: 55 degrees F, Cloudy

WELL SAMPLING INFORMATION

Well Diameter:	2 inch	Static Water Level:	3.18 feet
Depth of Well:	15.05 feet	Length of Well Screen:	5 feet
Measuring Point:	PVC	Depth to Top of Pump:	N/A
Pump Type:	Geopump – Peristaltic	Tubing Type:	LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (ml/min)	Gallons Purged	pH	Temp °C	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	Redox (mV)	Depth to Water	Comments
			+/- 0.1		+/- 3%		+ 10%	+/- 10 mV		
1042	50% / 150	-	7.04	17.8	2.53	38.4	5.75	144.3	3.18	
1047	50% / 150	0.2	6.58	18.9	2.52	34.6	0.53	31.0	4.45	
1052	50% / 150	0.4	6.62	19.1	2.48	31.2	0.51	25.7	5.48	
1057	50% / 150	0.6	6.68	19.1	2.36	26.7	0.62	22.4	5.81	Sample collected @ 1101

Total 0.6 Gallons Purged

Purge Time Start: 1042 Purge Time End: 1057 Final Static Water Level: 5.81

OBSERVATIONS

Notes:

LABELLA Associates, P.C.
300 State Street
Rochester, New York 14614
Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-7

Project Name: Dorschel Annual Groundwater Monitoring
Location: 3865 & 3875 West Henrietta Road
Project No.: 209395
Sampled By: N. Inzinna
Date: 10/6/2015
Weather: 60 degrees F, cloudy

WELL SAMPLING INFORMATION

Well Diameter:	1 inch	Static Water Level:	2.65 feet
Depth of Well:	7.50 feet	Length of Well Screen:	5 feet
Measuring Point:	PVC	Depth to Top of Pump:	N/A
Pump Type:	Geopump - Peristaltic	Tubing Type:	LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (ml/sec)	Gallons Purged	pH	Temp °C	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	Redox (mV)	Depth to Water	Comments
			+/- 0.1		+/- 3%		+ 10%	+/- 10 mV		
1210	50% / 75	-	7.10	17.7	2.07	51.7	2.64	-90.9	2.65	Air bubbles in line with limited flow
1215	50% / 75	0.1	6.95	17.9	1.91	39.2	2.12	-96.2	6.70	Sample collected @ 1217

Total 0.1 Gallons Purged

Purge Time Start: 1210 Purge Time End: 1215 Final Static Water Level: 6.70

OBSERVATIONS

Notes: GW sample was collected due to well running dry.

LABELLA Associates, P.C.
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WELL I.D.: MW-3R

Project Name: RJ Dorschel Groundwater Monitoring
Location: 3865 & 3875 West Henrietta Road
Project No.: 209395
Sampled By: K R Miller
Date: 6/14/2016
Weather: Sunny 70° F

WELL SAMPLING INFORMATION

Well Diameter: 2-inch
Depth of Well: 15 feet
Measuring Point: Top of Casing (TOC)
Pump Type: Geopump – Peristaltic
Static Water Level: 3.03 feet Below Top of Casing (BTOC)
Length of Well Screen: 5 feet
Depth to Top of Pump: Tubing inlet ±12.5 BTOC
Tubing Type: Poly

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (L/min)	Gallons Purged	pH	Temp °C	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	Redox (mV)	Depth to Water (ft. BTOC)	Comments
			+/- 0.1		+/- 3%		+ 10%	+/- 10 mV		
12:25										Flow thru cell filling
12:30			7.39	17.22	2.28	59.8	0.35	-50	4.85	
12:35			7.38	17.28	2.24	36.2	1.62	-41	5.56	
12:40	<0.2		7.42	17.18	2.23	38.3	3.55	-33	5.80	
12:45			7.39	17.36	2.19	37.4	4.16	-34	5.65	
12:50			7.32	17.58	2.18	20.0	4.30	-5	5.65	
12:55			7.33	17.52	2.19	22.2	4.26	-8	5.65	

Total 1.5 Gallons Purged

Purge Time Start: 12:22 Purge Time End: 12:55 Final Static Water Level: 5.65 feet BTOC

OBSERVATIONS

Light yellowish-brown color to purged groundwater.

No odor or sheen observed in connection with purged groundwater.

Groundwater sample collected 6/14/2016 at 13:00; two (2) 40-mL, HCl-preserved VOA containers filled and submitted for laboratory analysis.

LABELLA Associates, P.C.
300 State Street
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WELL I.D.: MW-7

Project Name: RJ Dorschel Groundwater Monitoring
Location: 3865 & 3875 West Henrietta Road
Project No.: 209395
Sampled By: K R Miller
Date: 6/14/2016 & 6/15/2016
Weather: Sunny 70° F

WELL SAMPLING INFORMATION

Well Diameter:	1 inch	Static Water Level:	2.5 feet Below Top of Casing (BTOC)
Depth of Well:	7.5 feet	Length of Well Screen:	5 feet
Measuring Point:	Top of Casing (TOC)	Depth to Top of Pump:	Tubing inlet ±6.5 BTOC
Pump Type:	Geopump - Peristaltic	Tubing Type:	Poly

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (L/min)	Gallons Purged	pH	Temp °C	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	Redox (mV)	Depth to Water (ft. BTOC)	Comments
			+/- 0.1		+/- 3%		+ 10%	+/- 10 mV		
14:15										Flow thru cell filling
14:18	<0.2		7.51	17.84	1.66	95.0	2.05	-147		
14:23			7.53	18.65	1.69	88.3	2.85	-136		Cannot measure depth to water, well diameter is too small.

Total <0.5 Gallons Purged

Purge Time Start: 14:12 Purge Time End: 14:25 Final Static Water Level: N/A

OBSERVATIONS

Well purged “dry” on 6/14/2016, and was allowed to recharge overnight. Groundwater sample was collected on 6/15/2016 at 10:30; two (2) 40-mL, HCl-preserved VOA containers filled and submitted for laboratory analysis..

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX B

Data Usability Summary Reports (DUSRs)

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 State Street

Rochester, NY 14614

3865-3875 West Henrietta Road Site
Project 209395
Aqueous Samples
SDG: L793134
Sampled October 2015

VOLATILE ORGANICS

MW-1 (L809643-01)
ME-3R (L809643-02)

DATA ASSESSMENT

An ASP Category B data package containing analytical results for two groundwater samples was received from Labella Associates, P.C. on 25Jul16. The deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the 3865-3875 West Henrietta Road Site, were identified by Chain of Custody documents and traceable through the work of Environmental Science Corporation, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8260C, addressed determinations of volatile organics. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-33, Rev. #3, March 2013, Low/Medium Volatile Data Validation) was used as a technical reference.

The bromomethane and trichloroethene results from this group of samples have been qualified as estimations due to poor calibration performance.

The identifications of MTBE and methylcyclohexane in MW-7 could not be confirmed, based on the mass spectra references included in the raw data. MTBE and methylcyclohexane should be interpreted as undetected in the affected sample.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results representing a usable estimation of the conditions at the time of sampling have been flagged "U" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B Baldwin Date: 28 July 16
James B. Baldwin

Sample History

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the time of collection. Samples must remain chilled to 4°C between the time of collection and the time of analysis. Acid preserved VOC samples must be analyzed within 14 days of VTSR, unpreserved VOC samples within 7 days. The holding time for soils is 14 days. Semivolatile organics, pesticides and PCB samples must be extracted from aqueous samples within seven days of collection. The extracts must then be analyzed within forty days of extraction. The holding times for cyanide and mercury samples are 14 and 28 days, respectively. Metals samples must be analyzed within six months.

This sample delivery group contained two groundwater samples that were collected from the 3865-3875 West Henrietta Road Site and shipped to the laboratory, via FedEx, on 06Oct15. They arrived the next morning. Although an inspection of the samples was not documented in the raw data, the Case Narrative indicates that the samples arrived intact and were properly chilled and preserved. A cooler temperature of 2.0°C was recorded on the field custody chain. Custody seals were in place at the time of receipt. The analysis of this pair of samples was completed on 12Oct15 and 15Oct15. The SW-846 holding time limitation was satisfied.

VOLATILE ORGANICS

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

Two method blanks were analyzed with this group of samples. Both of these blanks demonstrated acceptable chromatography and were free of targeted analyte contamination exceeding the laboratory's reporting limit.

MS Tuning

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each analytical sequence that included samples from this program. An Instrument Performance Check Form is present for each BFB evaluation. The BFB tunes associated with this group of samples satisfied the program acceptance criteria.

Calibrations

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

Initial instrument calibrations were performed on 04Sep15 and 29Sep15. Standards of 0.25, 0.5, 1.0, 2.0, 5.0, 10, 25, 40, 75, 100 and 200 µg/l were included. With the exception of trichloroethene on 04Sep15, each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during both calibrations. Trichloroethene standards, however, failed to produce the required, minimum levels of instrument response. The trichloroethene (TCE) results from this pair of samples have been qualified as estimations based on this performance.

Calibration check standards were analyzed on 12Oct15 and 15Oct15, prior to the twelve-hour periods of instrument operation that included samples from this program. When compared to the initial instrument calibrations, an unacceptable shift was observed in the response of bromomethane (26%) on 12Oct15. The bromomethane (BRMANE) results from this group of samples have been qualified as estimations based on this performance. The remaining targeted analytes demonstrated an acceptable level of instrument stability during both calibration checks. It is noted the response of trichloroethene remained low.

Surrogates

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared using the laboratory's acceptance criteria. When compared to the ASP requirements, however, an acceptable recovery was reported for each of the surrogate additions to this group of samples.

Internal Standards

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal

standard response and retention times. When compared to this criteria, acceptable performance was reported for the internal standard additions to this group of samples.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

A sample from an unrelated program was selected for matrix spiking. The entire list of targeted analytes was added to two portions of this sample. The recoveries reported for these additions included low results for acetone (45%,44%). Data has not been qualified based on this performance, however, because it may not be representative of the matrix of samples from the 3865-3875 West Henrietta Road site. The remaining targeted analytes demonstrated acceptable levels of measurement precision and accuracy.

Recoveries were also reported for a pair of MS/MSD samples that were analyzed on 15Oct15. This information was provided without supporting raw data. The recoveries reported from these samples should not be considered.

Two pairs of spiked blanks (LCS/LCSD) were analyzed with this delivery group. Both of these LCS/LCSD pairs demonstrated acceptable levels of measurement precision and accuracy.

Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

A field split duplicate sample was not included in this delivery group.

Reported Analytes

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument printouts. Reference mass spectra were provided to confirm the identification of each analyte that was detected in this group of samples.

The identifications of MTBE and methylcyclohexane in MW-7 could not be confirmed, based on the mass spectra references included in the raw data. MTBE and methylcyclohexane (METHCYCOLHEX) should be interpreted as undetected in the affected sample.

SUMMARY OF QUALIFIED DATA

3865-3875 WEST HENRIETTA ROAD

SAMPLED: OCTOBER 2015

	CALIBRATE BRMANE	CALIBRATE TCE	SPECTRA ID MTBE	SPECTRA ID METHCYCLOHEX
MW-7 (L793134-1)	5.0UJ	1.0UJ	1.0U	20U
MW-3R (1793134-2)	5.0UJ	1.0UJ		

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	10/12/2015 19:10	WG821352
Benzene	816		20.0	20	10/15/2015 13:26	WG822158
Bromochloromethane	ND		1.00	1	10/12/2015 19:10	WG821352
Bromodichloromethane	ND		1.00	1	10/12/2015 19:10	WG821352
Bromoform	ND		1.00	1	10/12/2015 19:10	WG821352
Bromomethane	5.0 ~~ND~~ UJ		5.00	1	10/12/2015 19:10	WG821352
Carbon disulfide	ND		1.00	1	10/12/2015 19:10	WG821352
Carbon tetrachloride	ND		1.00	1	10/12/2015 19:10	WG821352
Chlorobenzene	ND		1.00	1	10/12/2015 19:10	WG821352
Chlorodibromomethane	ND		1.00	1	10/12/2015 19:10	WG821352
Chloroethane	ND		5.00	1	10/12/2015 19:10	WG821352
Chloroform	ND		5.00	1	10/12/2015 19:10	WG821352
Chloromethane	ND		2.50	1	10/12/2015 19:10	WG821352
Cyclohexane	113		20.0	20	10/15/2015 13:26	WG822158
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/12/2015 19:10	WG821352
1,2-Dibromoethane	ND		1.00	1	10/12/2015 19:10	WG821352
1,2-Dichlorobenzene	ND		1.00	1	10/12/2015 19:10	WG821352
1,3-Dichlorobenzene	ND		1.00	1	10/12/2015 19:10	WG821352
1,4-Dichlorobenzene	ND		1.00	1	10/12/2015 19:10	WG821352
Dichlorodifluoromethane	ND		5.00	1	10/12/2015 19:10	WG821352
1,1-Dichloroethane	ND		1.00	1	10/12/2015 19:10	WG821352
1,2-Dichloroethane	ND		1.00	1	10/12/2015 19:10	WG821352
1,1-Dichloroethene	ND		1.00	1	10/12/2015 19:10	WG821352
cis-1,2-Dichloroethene	ND		1.00	1	10/12/2015 19:10	WG821352
trans-1,2-Dichloroethene	ND		1.00	1	10/12/2015 19:10	WG821352
1,2-Dichloropropane	ND		1.00	1	10/12/2015 19:10	WG821352
cis-1,3-Dichloropropene	ND		1.00	1	10/12/2015 19:10	WG821352
trans-1,3-Dichloropropene	ND		1.00	1	10/12/2015 19:10	WG821352
Ethylbenzene	786		20.0	20	10/15/2015 13:26	WG822158
2-Hexanone	ND		10.0	1	10/12/2015 19:10	WG821352
Isopropylbenzene	43.0		1.00	1	10/12/2015 19:10	WG821352
2-Butanone (MEK)	ND		10.0	1	10/12/2015 19:10	WG821352
Methyl Acetate	ND		20.0	1	10/12/2015 19:10	WG821352
Methyl Cyclohexane	20 ~~52.8~~ U		20.0	20	10/15/2015 13:26	WG822158
Methylene Chloride	ND		5.00	1	10/12/2015 19:10	WG821352
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/12/2015 19:10	WG821352
Methyl tert-butyl ether	1.0 ~~1.48~~ U		1.00	1	10/12/2015 19:10	WG821352
Naphthalene	423		100	20	10/15/2015 13:26	WG822158
Styrene	ND		1.00	1	10/12/2015 19:10	WG821352
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/12/2015 19:10	WG821352
Tetrachloroethene	ND		1.00	1	10/12/2015 19:10	WG821352
Toluene	73.9		5.00	1	10/12/2015 19:10	WG821352
1,2,3-Trichlorobenzene	ND		1.00	1	10/12/2015 19:10	WG821352
1,2,4-Trichlorobenzene	ND		1.00	1	10/12/2015 19:10	WG821352
1,1,1-Trichloroethane	ND		1.00	1	10/12/2015 19:10	WG821352
1,1,2-Trichloroethane	ND		1.00	1	10/12/2015 19:10	WG821352
Trichloroethene	1.0 ~~ND~~ UJ		1.00	1	10/12/2015 19:10	WG821352
Trichlorofluoromethane	ND		5.00	1	10/12/2015 19:10	WG821352
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/12/2015 19:10	WG821352
Vinyl chloride	ND		1.00	1	10/12/2015 19:10	WG821352
o-Xylene	143		1.00	1	10/12/2015 19:10	WG821352
m&p-Xylenes	2620		40.0	20	10/15/2015 13:26	WG822158
n-Butylbenzene	11.0		1.00	1	10/12/2015 19:10	WG821352
sec-Butylbenzene	7.89		1.00	1	10/12/2015 19:10	WG821352
1,2,4-Trimethylbenzene	1380		20.0	20	10/15/2015 13:26	WG822158
n-Propylbenzene	89.1		1.00	1	10/12/2015 19:10	WG821352

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
p-Isopropyltoluene	7.27		1.00	1	10/12/2015 19:10	WG821352
tert-Butylbenzene	ND		1.00	1	10/12/2015 19:10	WG821352
1,3,5-Trimethylbenzene	196		1.00	1	10/12/2015 19:10	WG821352
(S) Toluene-d8	*107*		*90.0-115*		*10/12/2015 19:10*	WG821352
(S) Toluene-d8	*98.6*		*90.0-115*		*10/15/2015 13:26*	WG822158
(S) 4-Bromofluorobenzene	*99.5*		*80.1-120*		*10/15/2015 13:26*	WG822158
(S) 4-Bromofluorobenzene	*94.2*		*80.1-120*		*10/12/2015 19:10*	WG821352
(S) Dibromofluoromethane	*107*		*79.0-121*		*10/12/2015 19:10*	WG821352
(S) Dibromofluoromethane	*97.1*		*79.0-121*		*10/15/2015 13:26*	WG822158
(S) a,a,a-Trifluorotoluene	*100*		*90.4-116*		*10/15/2015 13:26*	WG822158
(S) a,a,a-Trifluorotoluene	*108*		*90.4-116*		*10/12/2015 19:10*	WG821352

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	10/12/2015 19:33	WG821352
Benzene	ND		1.00	1	10/15/2015 14:31	WG822158
Bromochloromethane	ND		1.00	1	10/12/2015 19:33	WG821352
Bromodichloromethane	ND		1.00	1	10/12/2015 19:33	WG821352
Bromoform	ND		1.00	1	10/12/2015 19:33	WG821352
Bromomethane	ND		5.00	1	10/12/2015 19:33	WG821352
Carbon disulfide	ND		1.00	1	10/12/2015 19:33	WG821352
Carbon tetrachloride	ND		1.00	1	10/12/2015 19:33	WG821352
Chlorobenzene	106		1.00	1	10/12/2015 19:33	WG821352
Chlorodibromomethane	ND		1.00	1	10/12/2015 19:33	WG821352
Chloroethane	ND		5.00	1	10/12/2015 19:33	WG821352
Chloroform	ND		5.00	1	10/12/2015 19:33	WG821352
Chloromethane	ND		2.50	1	10/12/2015 19:33	WG821352
Cyclohexane	ND		1.00	1	10/12/2015 19:33	WG821352
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/12/2015 19:33	WG821352
1,2-Dibromoethane	ND		1.00	1	10/12/2015 19:33	WG821352
1,2-Dichlorobenzene	2.42		1.00	1	10/12/2015 19:33	WG821352
1,3-Dichlorobenzene	ND		1.00	1	10/12/2015 19:33	WG821352
1,4-Dichlorobenzene	ND		1.00	1	10/12/2015 19:33	WG821352
Dichlorodifluoromethane	ND		5.00	1	10/12/2015 19:33	WG821352
1,1-Dichloroethane	ND		1.00	1	10/12/2015 19:33	WG821352
1,2-Dichloroethane	ND		1.00	1	10/12/2015 19:33	WG821352
1,1-Dichloroethene	ND		1.00	1	10/12/2015 19:33	WG821352
cis-1,2-Dichloroethene	ND		1.00	1	10/12/2015 19:33	WG821352
trans-1,2-Dichloroethene	ND		1.00	1	10/12/2015 19:33	WG821352
1,2-Dichloropropane	ND		1.00	1	10/12/2015 19:33	WG821352
cis-1,3-Dichloropropene	ND		1.00	1	10/12/2015 19:33	WG821352
trans-1,3-Dichloropropene	ND		1.00	1	10/12/2015 19:33	WG821352
Ethylbenzene	ND		1.00	1	10/15/2015 14:31	WG822158
2-Hexanone	ND		10.0	1	10/12/2015 19:33	WG821352
Isopropylbenzene	ND		1.00	1	10/12/2015 19:33	WG821352
2-Butanone (MEK)	ND		10.0	1	10/12/2015 19:33	WG821352
Methyl Acetate	ND		20.0	1	10/12/2015 19:33	WG821352
Methyl Cyclohexane	ND		1.00	1	10/12/2015 19:33	WG821352
Methylene Chloride	ND		5.00	1	10/12/2015 19:33	WG821352
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/12/2015 19:33	WG821352
Methyl tert-butyl ether	1.56		1.00	1	10/12/2015 19:33	WG821352
Naphthalene	ND		5.00	1	10/15/2015 14:31	WG822158
Styrene	ND		1.00	1	10/12/2015 19:33	WG821352
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/12/2015 19:33	WG821352
Tetrachloroethene	ND		1.00	1	10/12/2015 19:33	WG821352
Toluene	ND		5.00	1	10/12/2015 19:33	WG821352
1,2,3-Trichlorobenzene	ND		1.00	1	10/12/2015 19:33	WG821352
1,2,4-Trichlorobenzene	ND		1.00	1	10/12/2015 19:33	WG821352
1,1,1-Trichloroethane	ND		1.00	1	10/12/2015 19:33	WG821352
1,1,2-Trichloroethane	ND		1.00	1	10/12/2015 19:33	WG821352
Trichloroethene	ND		1.00	1	10/12/2015 19:33	WG821352
Trichlorofluoromethane	ND		5.00	1	10/12/2015 19:33	WG821352
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/12/2015 19:33	WG821352
Vinyl chloride	ND		1.00	1	10/12/2015 19:33	WG821352
o-Xylene	ND		1.00	1	10/12/2015 19:33	WG821352
m&p-Xylenes	3.70		2.00	1	10/12/2015 19:33	WG821352
n-Butylbenzene	ND		1.00	1	10/12/2015 19:33	WG821352
sec-Butylbenzene	ND		1.00	1	10/12/2015 19:33	WG821352
1,2,4-Trimethylbenzene	ND		1.00	1	10/15/2015 14:31	WG822158
n-Propylbenzene	ND		1.00	1	10/12/2015 19:33	WG821352

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
p-Isopropyltoluene	ND		1.00	1	10/12/2015 19:33	WG821352
tert-Butylbenzene	ND		1.00	1	10/12/2015 19:33	WG821352
1,3,5-Trimethylbenzene	ND		1.00	1	10/12/2015 19:33	WG821352
(S) Toluene-d8	*103*		*90.0-115*		*10/12/2015 19:33*	WG821352
(S) Toluene-d8	*97.7*		*90.0-115*		*10/15/2015 14:31*	WG822158
(S) 4-Bromofluorobenzene	*97.2*		*80.1-120*		*10/15/2015 14:31*	WG822158
(S) 4-Bromofluorobenzene	*101*		*80.1-120*		*10/12/2015 19:33*	WG821352
(S) Dibromofluoromethane	*99.1*		*79.0-121*		*10/12/2015 19:33*	WG821352
(S) Dibromofluoromethane	*102*		*79.0-121*		*10/15/2015 14:31*	WG822158
(S) a,a,a-Trifluorotoluene	*98.4*		*90.4-116*		*10/15/2015 14:31*	WG822158
(S) a,a,a-Trifluorotoluene	*106*		*90.4-116*		*10/12/2015 19:33*	WG821352

Method Blank (MB)

(MB) R3085132-3 10/12/15 16:55

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Bromodichloromethane	U		0.380	1.00
Bromochloromethane	U		0.520	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
n-Butylbenzene	U		0.361	1.00
sec-Butylbenzene	U		0.365	1.00
tert-Butylbenzene	U		0.399	1.00
Carbon disulfide	U		0.275	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
Cyclohexane	U		0.390	1.00
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
Dichlorodifluoromethane	U		0.551	5.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
2-Hexanone	U		3.82	10.0
Isopropylbenzene	U		0.326	1.00
p-Isopropyltoluene	U		0.350	1.00
2-Butanone (MEK)	U		3.93	10.0
Methyl Acetate	U		4.30	20.0
Methyl Cyclohexane	U		0.380	1.00
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0
Methyl tert-butyl ether	U		0.367	1.00
n-Propylbenzene	U		0.349	1.00

Method Blank (MB)

(MB) R3085132-3 10/12/15 16:55

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Styrene	U		0.307	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.780	5.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.355	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00
Trichloroethene	U		0.398	1.00
Trichlorofluoromethane	U		1.20	5.00
1,3,5-Trimethylbenzene	U		0.387	1.00
Vinyl chloride	U		0.259	1.00
o-Xylene	U		0.341	1.00
m&p-Xylenes	U		0.719	2.00
(S) Toluene-d8	*104*			*90.0-115*
(S) Dibromofluoromethane	*103*			*79.0-121*
(S) a,a,a-Trifluorotoluene	*106*			*90.4-116*
(S) 4-Bromofluorobenzene	*103*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3085132-1 10/12/15 13:49 • (LCSD) R3085132-2 10/12/15 14:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	134	136	107	109	28.7-175			1.59	20.9
Bromodichloromethane	25.0	22.1	21.7	88.5	86.9	75.5-121			1.83	20
Bromochloromethane	25.0	25.4	24.9	102	99.8	78.9-123			1.76	20
Bromoform	25.0	23.6	23.2	94.6	92.8	71.5-131			1.91	20
Bromomethane	25.0	30.7	29.9	123	119	22.4-187			2.62	20
n-Butylbenzene	25.0	22.9	22.9	91.4	91.7	75.9-134			0.280	20
sec-Butylbenzene	25.0	24.1	23.3	96.3	93.2	80.6-126			3.22	20
tert-Butylbenzene	25.0	23.9	23.6	95.7	94.5	79.3-127			1.21	20
Carbon disulfide	25.0	23.3	22.6	93.3	90.5	53.0-134			3.14	20
Carbon tetrachloride	25.0	24.5	20.7	98.0	82.8	70.9-129			16.8	20
Chlorobenzene	25.0	24.1	23.7	96.4	94.8	79.7-122			1.67	20
Chlorodibromomethane	25.0	23.4	23.1	93.4	92.4	78.2-124			1.15	20
Chloroethane	25.0	25.5	25.2	102	101	41.2-153			1.12	20
Chloroform	25.0	23.9	23.2	95.7	92.6	73.2-125			3.24	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3085132-1 10/12/15 13:49 • (LCSD) R3085132-2 10/12/15 14:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloromethane	25.0	24.4	23.9	97.7	95.5	55.8-134			2.31	20
1,2-Dibromo-3-Chloropropane	25.0	22.3	22.1	89.0	88.5	64.8-131			0.550	20
1,2-Dibromoethane	25.0	23.2	23.1	92.7	92.5	79.8-122			0.270	20
1,2-Dichlorobenzene	25.0	23.3	23.3	93.2	93.2	84.7-118			0.0600	20
1,3-Dichlorobenzene	25.0	24.3	23.5	97.2	94.1	77.6-127			3.16	20
1,4-Dichlorobenzene	25.0	23.3	23.2	93.4	92.9	82.2-114			0.570	20
Dichlorodifluoromethane	25.0	24.2	22.8	96.8	91.2	56.0-134			6.01	20
1,1-Dichloroethane	25.0	25.6	24.6	102	98.2	71.7-127			3.96	20
1,2-Dichloroethane	25.0	22.5	22.5	89.9	90.1	65.3-126			0.180	20
1,1-Dichloroethene	25.0	25.3	24.4	101	97.5	59.9-137			3.62	20
cis-1,2-Dichloroethene	25.0	25.8	25.0	103	100	77.3-122			2.86	20
trans-1,2-Dichloroethene	25.0	24.6	24.9	98.2	99.4	72.6-125			1.22	20
1,2-Dichloropropane	25.0	24.2	24.1	96.8	96.3	77.4-125			0.520	20
cis-1,3-Dichloropropene	25.0	24.0	23.4	95.8	93.8	77.7-124			2.18	20
trans-1,3-Dichloropropene	25.0	23.0	22.7	91.9	90.8	73.5-127			1.19	20
2-Hexanone	125	122	125	98.0	100	59.4-151			2.22	20
Isopropylbenzene	25.0	23.8	22.9	95.2	91.5	81.6-124			3.95	20
p-Isopropyltoluene	25.0	24.1	23.1	96.3	92.5	77.6-129			3.94	20
2-Butanone (MEK)	125	120	122	96.2	97.6	46.4-155			1.42	20
Methylene Chloride	25.0	24.0	23.3	96.2	93.3	69.5-120			2.97	20
4-Methyl-2-pentanone (MIBK)	125	98.5	101	78.8	80.7	63.3-138			2.27	20
Methyl tert-butyl ether	25.0	24.5	24.3	98.0	97.1	70.1-125			0.920	20
n-Propylbenzene	25.0	24.1	23.5	96.3	94.2	81.9-122			2.24	20
Styrene	25.0	24.5	23.6	98.1	94.3	79.9-124			3.99	20
1,1,2,2-Tetrachloroethane	25.0	23.2	22.6	92.8	90.3	79.3-123			2.77	20
Tetrachloroethene	25.0	23.5	22.9	94.0	91.5	73.5-130			2.68	20
Toluene	25.0	23.7	22.9	94.9	91.8	77.9-116			3.41	20
1,1,2-Trichlorotrifluoroethane	25.0	26.4	25.7	106	103	62.0-141			2.76	20
1,2,3-Trichlorobenzene	25.0	24.5	24.7	97.9	98.7	75.7-134			0.880	20
1,2,4-Trichlorobenzene	25.0	25.0	25.7	99.8	103	76.1-136			2.91	20
1,1,1-Trichloroethane	25.0	23.7	22.9	94.7	91.5	71.1-129			3.38	20
1,1,2-Trichloroethane	25.0	23.1	23.0	92.5	91.9	81.6-120			0.590	20
Trichloroethene	25.0	24.0	23.8	96.1	95.4	79.5-121			0.720	20
Trichlorofluoromethane	25.0	26.6	25.6	107	102	49.1-157			4.01	20
1,3,5-Trimethylbenzene	25.0	23.3	22.5	93.0	89.9	81.0-123			3.38	20
Vinyl chloride	25.0	26.3	25.2	105	101	61.5-134			4.16	20
o-Xylene	25.0	23.6	23.1	94.3	92.3	79.1-123			2.09	20
m&p-Xylenes	50.0	47.2	45.9	94.3	91.8	78.5-122			2.74	20
(S) Toluene-d8				*106*	*106*	*90.0-115*				
(S) Dibromofluoromethane				*107*	*106*	*79.0-121*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3085132-1 10/12/15 13:49 • (LCSD) R3085132-2 10/12/15 14:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) a,a,a-Trifluorotoluene				*106*	*106*	*90.4-116*				
(S) 4-Bromofluorobenzene				*102*	*101*	*80.1-120*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3085132-4 10/12/15 17:17 • (MSD) R3085132-5 10/12/15 17:40

Analyte	Spike Amount ug/l	Original Result	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	125		59.5	58.6	45.0	44.2	1	25.0-156			1.63	21.5
Bromodichloromethane	25.0		20.3	20.3	81.1	81.2	1	69.2-127			0.160	20
Bromochloromethane	25.0		22.3	22.6	89.2	90.2	1	74.4-128			1.15	20
Bromoform	25.0		23.0	23.5	92.0	93.8	1	66.3-140			1.96	20
Bromomethane	25.0		22.6	22.1	90.5	88.5	1	16.6-183			2.29	20.5
n-Butylbenzene	25.0		20.4	20.7	81.6	82.8	1	64.8-145			1.43	20
sec-Butylbenzene	25.0		22.0	22.7	88.1	90.8	1	66.8-139			3.03	20
tert-Butylbenzene	25.0		22.3	23.0	89.1	92.0	1	67.1-138			3.15	20
Carbon disulfide	25.0		14.0	14.1	55.9	56.3	1	34.9-138			0.680	20
Carbon tetrachloride	25.0		20.4	18.4	81.7	73.7	1	60.6-139			10.3	20
Chlorobenzene	25.0		22.3	22.9	89.2	91.8	1	70.1-130			2.88	20
Chlorodibromomethane	25.0		22.5	22.7	90.1	90.9	1	71.6-132			0.790	20
Chloroethane	25.0		18.4	18.8	73.4	75.3	1	33.3-155			2.56	20
Chloroform	25.0		21.1	21.3	84.5	85.2	1	66.1-133			0.930	20
Chloromethane	25.0		17.2	17.0	69.0	68.1	1	40.7-139			1.23	20
1,2-Dibromo-3-Chloropropane	25.0		22.2	23.0	88.7	92.0	1	63.9-142			3.72	20.2
1,2-Dibromoethane	25.0		22.0	22.6	87.9	90.5	1	73.8-131			2.88	20
1,2-Dichlorobenzene	25.0		22.0	22.4	87.9	89.7	1	77.4-127			2.08	20
1,3-Dichlorobenzene	25.0		22.5	23.3	90.1	93.1	1	67.9-136			3.29	20
1,4-Dichlorobenzene	25.0		21.8	21.6	87.4	86.3	1	74.4-123			1.16	20
Dichlorodifluoromethane	25.0		18.3	18.2	73.0	72.9	1	42.2-146			0.210	20
1,1-Dichloroethane	25.0		21.9	22.4	87.8	89.5	1	64.0-134			1.94	20
1,2-Dichloroethane	25.0		20.1	19.9	80.5	79.4	1	60.7-132			1.32	20
1,1-Dichloroethene	25.0		20.2	19.8	80.7	79.3	1	48.8-144			1.75	20
cis-1,2-Dichloroethene	25.0		21.9	22.3	87.7	89.0	1	60.6-136			1.51	20
trans-1,2-Dichloroethene	25.0		20.0	20.0	79.8	80.1	1	61.0-132			0.310	20
1,2-Dichloropropane	25.0		22.2	22.1	88.6	88.4	1	69.7-130			0.300	20
cis-1,3-Dichloropropene	25.0		21.9	21.3	87.6	85.3	1	71.1-129			2.68	20
trans-1,3-Dichloropropene	25.0		21.1	21.0	84.4	83.9	1	66.3-136			0.510	20
2-Hexanone	125		96.7	99.5	77.3	79.6	1	59.4-154			2.89	20.1
Isopropylbenzene	25.0		21.4	22.2	85.8	88.6	1	67.4-136			3.24	20

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3085132-4 10/12/15 17:17 • (MSD) R3085132-5 10/12/15 17:40

Analyte	Spike Amount ug/l	Original Result	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
p-Isopropyltoluene	25.0		21.3	22.3	85.2	89.1	1	62.8-143			4.51	20
2-Butanone (MEK)	125		78.9	80.2	62.4	63.4	1	45.0-156			1.59	20.8
Methylene Chloride	25.0		20.5	20.7	82.1	82.8	1	61.5-125			0.900	20
4-Methyl-2-pentanone (MIBK)	125		93.9	95.5	75.1	76.4	1	60.7-150			1.70	20
Methyl tert-butyl ether	25.0		23.2	23.0	92.8	91.9	1	61.4-136			0.880	20
n-Propylbenzene	25.0		21.7	22.3	86.8	89.3	1	63.2-139			2.79	20
Styrene	25.0		22.0	22.5	88.1	89.9	1	68.2-133			2.07	20
1,1,2,2-Tetrachloroethane	25.0		22.9	23.6	91.6	94.2	1	64.9-145			2.80	20
Tetrachloroethene	25.0		20.2	20.9	80.9	83.7	1	57.4-141			3.50	20
Toluene	25.0		20.6	20.9	82.3	83.4	1	67.8-124			1.32	20
1,1,2-Trichlorotrifluoroethane	25.0		22.4	22.9	89.8	91.5	1	53.7-150			1.88	20
1,2,3-Trichlorobenzene	25.0		22.6	23.4	90.5	93.7	1	65.7-143			3.46	20
1,2,4-Trichlorobenzene	25.0		23.3	23.3	93.0	93.3	1	67.0-146			0.220	20
1,1,1-Trichloroethane	25.0		20.1	20.4	80.6	81.7	1	58.7-134			1.46	20
1,1,2-Trichloroethane	25.0		22.4	23.0	89.7	91.8	1	74.1-130			2.32	20
Trichloroethene	25.0		20.5	20.7	82.1	82.8	1	48.9-148			0.780	20
Trichlorofluoromethane	25.0		21.1	21.1	84.3	84.6	1	39.9-165			0.290	20
1,3,5-Trimethylbenzene	25.0		20.7	20.9	82.6	83.7	1	67.9-134			1.27	20
Vinyl chloride	25.0		18.6	19.1	74.4	76.4	1	44.3-143			2.73	20
o-Xylene	25.0		21.6	22.2	86.3	88.9	1	67.1-133			2.90	20
m&p-Xylenes	50.0		41.9	42.9	83.7	85.8	1	64.1-133			2.43	20
(S) Toluene-d8					*106*	*105*		*90.0-115*				
(S) Dibromofluoromethane					*103*	*103*		*79.0-121*				
(S) a,a,a-Trifluorotoluene					*106*	*106*		*90.4-116*				
(S) 4-Bromofluorobenzene					*101*	*102*		*80.1-120*				

Method Blank (MB)

(MB) R3085558-3 10/15/15 12:55

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
Cyclohexane	U		0.390	1.00
Ethylbenzene	U		0.384	1.00
Methyl Cyclohexane	U		0.380	1.00
Naphthalene	U		1.00	5.00
1,2,4-Trimethylbenzene	U		0.373	1.00
m&p-Xylenes	U		0.719	2.00
(S) Toluene-d8	*99.1*			*90.0-115*
(S) Dibromofluoromethane	*103*			*79.0-121*
(S) a,a,a-Trifluorotoluene	*101*			*90.4-116*
(S) 4-Bromofluorobenzene	*100*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3085558-1 10/15/15 11:06 • (LCSD) R3085558-2 10/15/15 11:26

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	25.0	25.0	26.6	100	106	73.0-122			6.17	20
Ethylbenzene	25.0	24.5	26.3	98.0	105	80.9-121			7.04	20
Naphthalene	25.0	20.5	23.0	82.1	92.0	69.7-134			11.4	20
1,2,4-Trimethylbenzene	25.0	21.7	25.5	87.0	102	79.0-122			15.8	20
m&p-Xylenes	50.0	47.9	52.1	95.7	104	78.5-122			8.46	20
(S) Toluene-d8				*97.2*	*98.8*	*90.0-115*				
(S) Dibromofluoromethane				*98.0*	*101*	*79.0-121*				
(S) a,a,a-Trifluorotoluene				*96.7*	*100*	*90.4-116*				
(S) 4-Bromofluorobenzene				*91.8*	*96.9*	*80.1-120*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3085558-4 10/15/15 14:51 • (MSD) R3085558-5 10/15/15 15:11

Analyte	Spike Amount ug/l	Original Result	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	25.0		26.6	26.0	106	104	1	58.6-133			2.50	20
Ethylbenzene	25.0		26.0	25.3	104	101	1	62.7-136			2.74	20
Naphthalene	25.0		21.0	22.6	82.8	89.0	1	61.8-143			7.11	20
1,2,4-Trimethylbenzene	25.0		24.4	23.7	97.8	94.8	1	60.5-137			3.12	20
m&p-Xylenes	50.0		50.8	49.5	102	99.0	1	64.1-133			2.53	20
(S) Toluene-d8					*98.6*	*97.9*		*90.0-115*				
(S) Dibromofluoromethane					*101*	*103*		*79.0-121*				

no raw data

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3085558-4 10/15/15 14:51 • (MSD) R3085558-5 10/15/15 15:11

Analyte	Spike Amount ug/l	Original Result	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) a,a,a-Trifluorotoluene					*99.8*	*99.0*		*90.4-116*				
(S) 4-Bromofluorobenzene					*97.3*	*97.8*		*80.1-120*				

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Quality Control Summary
SDG: L793134
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	209395	Matrix:	Water - mg/L
Project:	Derchel PRR GW Sampling 10/6	EPA ID:	TN00003
Collection Date:	10/6/2015	**Analytic Batch:**	**WG821352**
Analysis Date:	10/12/2015	Analyst:	591
Instrument ID:	VOCMS30		
Sample Numbers:	L793134-01, -02		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS30	LCS WG821352	LCS WG821352	1012a_03.D	10/12/2015	1:49 PM
VOCMS30	LCSD WG821352	LCSD WG821352	1012a_04.D	10/12/2015	2:12 PM
VOCMS30	Blank WG821352	Blank WG821352	1012A_09.D	10/12/2015	4:55 PM
VOCMS30	MS WG821352	MS WG821352	1012A_10.D	10/12/2015	5:17 PM
VOCMS30	MSD WG821352	MSD WG821352	1012A_11.D	10/12/2015	5:40 PM
VOCMS30	MW-7	L793134-01	1012A_15.D	10/12/2015	7:10 PM
VOCMS30	MW-3R	L793134-02	1012A_16.D	10/12/2015	7:33 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L793134
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	209395	Matrix:	Water - mg/L
Project:	Derchel PRR GW Sampling 10/6	EPA ID:	TN00003
Collection Date:	10/6/2015	**Analytic Batch:**	**WG822158**
Analysis Date:	10/15/2015	Analyst:	522
Instrument ID:	VOCMS31		
Sample Numbers:	L793134-01, -02		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS31	LCS WG822158	LCS WG822158	1015_04.D	10/15/2015	11:06 AM
VOCMS31	LCSD WG822158	LCSD WG822158	1015_05.D	10/15/2015	11:26 AM
VOCMS31	Blank WG822158	Blank WG822158	1015_09.D	10/15/2015	12:55 PM
VOCMS31	MW-7	L793134-01	1015_10.D	10/15/2015	1:26 PM
VOCMS31	MW-3R	L793134-02	1015_11.D	10/15/2015	2:31 PM
VOCMS31	MS WG822158	MS WG822158	1015_12.D	10/15/2015	2:51 PM
VOCMS31	MSD WG822158	MSD WG822158	1015_13.D	10/15/2015	3:11 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L793134
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	209395	Matrix:	Water - mg/L
Project:	Derchel PRR GW Sampling 10/6	EPA ID:	TN00003
Collection Date:	10/6/2015	**Analytic Batch:**	**WG821352**
Analysis Date:	10/12/2015	Analyst:	591
Instrument ID:	VOCMS30		
Sample Numbers:	L793134-01, -02		

Internal Standard Response and Retention Time Summary

File ID: 1012a_02
Analyzed: 10/12/15 132700

	IS1		IS2		IS3		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	518146	4.36	932244	4.69	143211	5.86	404034	8.25
Upper Limit	1040000	4.86	1860000	5.19	286000	6.36	808000	8.75
Lower Limit	259000	3.86	466000	4.19	71600	5.36	202000	7.75
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
LCSD WG821352	533347	4.36	947445	4.69	145402	5.86	408814	8.25
LCS WG821352	523474	4.36	932207	4.69	141829	5.86	407039	8.25

Legend:
IS1 -- PENTAFLUOROBENZENE
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS4 -- 1,4-DICHLOROBENZENE-D4

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Quality Control Summary
SDG: L793134
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260B
Project No: 209395
Project: Derchel PRR GW Sampling 10/6
Collection Date: 10/6/2015
Analysis Date: 10/15/2015
Instrument ID: VOCMS31
Sample Numbers: L793134-01, -02

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG822158
Analyst: 522

Internal Standard Response and Retention Time Summary

File ID: 1015_02
Analyzed: 10/15/15 102500

	IS1		IS2		IS3		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	323064	4.07	550262	4.40	93486	5.58	237224	8.02
Upper Limit	646000	4.57	1100000	4.90	187000	6.08	474000	8.52
Lower Limit	162000	3.57	275000	3.90	46700	5.08	119000	7.52
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L793134-01	361908	4.08	610693	4.41	101031	5.59	267230	8.02
L793134-02	337868	4.08	587084	4.41	97551	5.59	237716	8.02
MSD WG822158	325880	4.08	558845	4.41	93680	5.59	237361	8.02
MS WG822158	322340	4.08	545921	4.41	92951	5.59	235471	8.02
LCSD WG822158	332457	4.08	563822	4.40	94825	5.58	240958	8.02
LCS WG822158	364826	4.08	620431	4.40	103702	5.58	240206	8.02
BLANK WG822158	303205	4.08	520792	4.41	88681	5.59	228907	8.02

Legend:
IS1 -- PENTAFLUOROBENZENE
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS4 -- 1,4-DICHLOROBENZENE-D4

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Quality Control Summary
SDG: L793134
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	209395	Matrix:	Water - mg/L
Project:	Derchel PRR GW Sampling 10/6	EPA ID:	TN00003
Collection Date:	10/6/2015	**Analytic Batch:**	**WG821352**
Analysis Date:	10/12/2015	Analyst:	591
Instrument ID:	VOCMS30		
Sample Numbers:	L793134-01, -02		

Surrogate Summary

			BFB		TFT		DFM		TD8	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L793134-01	VOCMS30	1012A_15	0.0377	94.2	0.0434	108	0.0430	107	0.0427	107
L793134-02	VOCMS30	1012A_16	0.0406	101	0.0422	106	0.0396	99.1	0.0412	103
LCS WG821352	VOCMS30	1012a_03	0.0408	102	0.0426	106	0.0428	107	0.0426	106
LCSD WG821352	VOCMS30	1012a_04	0.0403	101	0.0423	106	0.0424	106	0.0426	106
BLANK WG821352	VOCMS30	1012A_09	0.0410	103	0.0422	106	0.0412	103	0.0416	104
MS WG821352	VOCMS30	1012A_10	0.0403	101	0.0423	106	0.0413	103	0.0422	106
MSD WG821352	VOCMS30	1012A_11	0.0407	102	0.0423	106	0.0413	103	0.0419	105

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 80.1 - 120
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 90.4 - 116
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 79 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 90 - 115

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Quality Control Summary
SDG: L793134
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260B
Project No: 209395
Project: Derchel PRR GW Sampling 10/6
Collection Date: 10/6/2015
Analysis Date: 10/15/2015
Instrument ID: VOCMS31
Sample Numbers: L793134-01, -02

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG822158
Analyst: 522

Surrogate Summary

			BFB		TFT		DFM		TD8	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L793134-01	VOCMS31	1015_10	0.0398	99.5	0.0400	100	0.0388	97.1	0.0395	98.6
L793134-02	VOCMS31	1015_11	0.0389	97.2	0.0394	98.4	0.0406	102	0.0391	97.7
LCS WG822158	VOCMS31	1015_04	0.0367	91.8	0.0387	96.7	0.0392	98.0	0.0389	97.2
LCSD WG822158	VOCMS31	1015_05	0.0388	96.9	0.0401	100	0.0405	101	0.0395	98.8
BLANK WG822158	VOCMS31	1015_09	0.0402	100	0.0404	101	0.0412	103	0.0396	99.1
MS WG822158	VOCMS31	1015_12	0.0389	97.3	0.0399	99.8	0.0405	101	0.0394	98.6
MSD WG822158	VOCMS31	1015_13	0.0391	97.8	0.0396	99.0	0.0414	103	0.0392	97.9

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 80.1 - 120
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 90.4 - 116
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 79 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 90 - 115

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Quality Control Summary
SDG: L793134
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260B
Project No: 209395
Project: Derchel PRR GW Sampling 10/6 EPA ID: TN00003
Collection Date: 10/6/2015
Instrument ID: VOCMS30

Instrument Performance Summary

FileID: 1012a_02.D Date: 10/12/2015 Time: 1:27 PM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	15.4
75	30 - 60% of mass 95	44.4
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.8
173	0 - 2% of mass 174	0
174	50 - 150% of mass 95	80.4
175	5 - 9% of mass 174	7.6
176	95 - 101% of mass 174	96.1
177	5 - 9% of mass 176	6.7

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG821352	LCS WG821352	1012a_03.D	10/12/2015	1:49 PM
LCSD WG821352	LCSD WG821352	1012a_04.D	10/12/2015	2:12 PM
Blank WG821352	Blank WG821352	1012A_09.D	10/12/2015	4:55 PM
MS WG821352	MS WG821352	1012A_10.D	10/12/2015	5:17 PM
MSD WG821352	MSD WG821352	1012A_11.D	10/12/2015	5:40 PM
MW-7	L793134-01	1012A_15.D	10/12/2015	7:10 PM
MW-3R	L793134-02	1012A_16.D	10/12/2015	7:33 PM

** - calibrated by linear regression

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Quality Control Summary
SDG: L793134
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260B
Project No: 209395
Project: Derchel PRR GW Sampling 10/6 EPA ID: TN00003
Collection Date: 10/6/2015
Instrument ID: VOCMS31

Instrument Performance Summary

FileID: 1015_02.D Date: 10/15/2015 Time: 10:25 AM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	19.7
75	30 - 60% of mass 95	50.2
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.7
173	0 - 2% of mass 174	1
174	50 - 150% of mass 95	69.4
175	5 - 9% of mass 174	7.5
176	95 - 101% of mass 174	95.7
177	5 - 9% of mass 176	6.5

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG822158	LCS WG822158	1015_04.D	10/15/2015	11:06 AM
LCSD WG822158	LCSD WG822158	1015_05.D	10/15/2015	11:26 AM
Blank WG822158	Blank WG822158	1015_09.D	10/15/2015	12:55 PM
MW-7	L793134-01	1015_10.D	10/15/2015	1:26 PM
MW-3R	L793134-02	1015_11.D	10/15/2015	2:31 PM
MS WG822158	MS WG822158	1015_12.D	10/15/2015	2:51 PM
MSD WG822158	MSD WG822158	1015_13.D	10/15/2015	3:11 PM

** - calibrated by linear regression

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 State Street

Rochester, NY 14614

3865-3875 West Henrietta Road Site
Project 209395
Groundwater Samples
SDG: L842221
Sampled June 2016

VOLATILE ORGANICS

MW-3R (L842221-1)
MW-1 (L842221-2)

DATA ASSESSMENT

An ASP Category B data package containing analytical results for two groundwater samples was received from Labella Associates, P.C. on 01Jul16. The deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the 3865-3875 West Henrietta Road Site, were identified by Chain of Custody documents and traceable through the work of Environmental Science Corporation, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8260C, addressed determinations of volatile organics. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-33, Rev. #3, March 2013, Low/Medium Volatile Data Validation) was used as a technical reference.

The methyl acetate, cyclohexane and methylcyclohexane results from this group of samples have been rejected due to poor calibration performance. Bromomethane and trichloroethene results have been qualified as estimations.

The positive results from MW-3R have been qualified as estimations due to a low surrogate standard recovery.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results representing a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Data felt to be unreliable has been identified with a single red line and flagged "R". Rejected data should not be included in data tables. Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 20 July 16

James B. Baldwin

Sample History
Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the time of collection. Samples must remain chilled to 4°C between the time of collection and the time of analysis. Acid preserved VOC samples must be analyzed within 14 days of VTSR, unpreserved VOC samples within 7 days. The holding time for soils is 14 days. Semivolatile organics, pesticides and PCB samples must be extracted from aqueous samples within seven days of collection. The extracts must then be analyzed within forty days of extraction. The holding times for cyanide and mercury samples are 14 and 28 days, respectively. Metals samples must be analyzed within six months.

This sample delivery group contained two groundwater samples that were collected from the 3865-3875 West Henrietta Road Site on 14Jun16 and 15Jun16. The samples were shipped to the laboratory, via FedEx, on 16Jun16 and were received by the laboratory on 17Jun16. Although an inspection of the samples was not documented in the raw data, the Case Narrative indicates that the samples arrived intact and properly chilled and preserved. A cooler temperature of 2.3°C was recorded on the field custody chain. There is no indication that the custody seals were found on the sample cooler. This pair of samples were analyzed on 19Jun16, within the holding time limitation for unpreserved samples.

VOLATILE ORGANICS

Blanks
Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

Two method blanks were analyzed with this group of samples. Both of these blanks demonstrated acceptable chromatography and were free of targeted analyte contamination exceeding the laboratory's reporting limit.

MS Tuning
Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each analytical sequence that included samples from this program. An Instrument Performance Check Form is present for each

BFB evaluation. The BFB tunes associated with this group of samples satisfied the program acceptance criteria.

Calibrations

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

Initial instrument calibrations were performed on 02Jun16 and 16Jun16. Standards of 0.25, 0.5, 1.0, 2.0, 5.0, 10, 25, 40, 75, 100 and 200 µg/l were included. With the exception of bromomethane on 16Jun16, each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during both calibrations. Although bromomethane standards produced the required levels of response, they demonstrated poor linearity on 16Jun16. Although errors might be expected in measurements of this analyte, it may be assumed that bromomethane would be detected if present in samples. Because bromomethane was not detected in this group of samples, data qualifications are not required.

Calibration check standards were analyzed on 19Jun16 and 23Jun16, prior to the twelve-hour periods of instrument operation that included samples from this program. When compared to the initial instrument calibrations, unacceptable shifts were observed in the response of bromomethane (36%), methyl acetate (97%), cyclohexane (99%) and methylcyclohexane (99%) on 19Jun16. Additionally, methyl acetate, cyclohexane, methylcyclohexane and trichloroethene failed to produce the required minimum levels of instrument response. The methyl acetate (METH ACE), cyclohexane (CYCLOHEX) and methylcyclohexane (METHCYCLOHEX) results from this delivery group have been rejected based on this performance. Bromomethane (BRMANE) and trichloroethene (TCE) results have been qualified as estimations.

Surrogates

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared using the laboratory's acceptance criteria. When compared to the ASP requirements, an unacceptably high recovery was reported for the dibromofluoromethane addition to MW-3R. The remaining surrogate additions to this group of samples were recovered successfully. The positive results reported from MW-3R have been qualified as estimation based on this indication of positive bias.

Internal Standards

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to this criteria, acceptable performance was reported for the internal standard additions to this group of samples.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

A sample from an unrelated program was selected for matrix spiking. The entire list of targeted analytes was added to two portions of this sample. The recoveries reported for these additions included low results for tetrachloroethene (37%,49%). Data has not been qualified based on this performance, however, because it may not be representative of the matrix of samples from the 3865-3875 West Henrietta Road site. The remaining targeted analytes demonstrated acceptable levels of measurement precision and accuracy.

Two pairs of spiked blanks (LCS/LCSD) were analyzed with this delivery group. Both of these LCS/LCSD pairs demonstrated acceptable levels of measurement precision and accuracy.

Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

A field split duplicate sample was not included in this delivery group.

Reported Analytes

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument printouts. Reference mass spectra were provided to confirm the identification of each analyte that was detected in this group of samples. Reported concentrations have been corrected for sample volume.

SUMMARY OF QUALIFIED DATA

3865-3875 WEST HENRIETTA ROAD

SAMPLED: JUNE 2016

	CALIBRATE METH ACE	CALIBRATE CYCLOHEX	CALIBRATE METHCYCLOHEX	CALIBRATE BRMANE	CALIBRATE TCE	SURROGATE
MW-3R (L842221-1)	REJECT	REJECT	REJECT	5.0UJ	1.0UJ	ALL POS J
MW-7 (1842221-2)	REJECT	REJECT	REJECT	5.0UJ	1.0UJ	

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/19/2016 21:38	WG881594
Benzene	ND		1.00	1	06/19/2016 21:38	WG881594
Bromochloromethane	ND		1.00	1	06/19/2016 21:38	WG881594
Bromodichloromethane	ND		1.00	1	06/19/2016 21:38	WG881594
Bromoform	ND		1.00	1	06/19/2016 21:38	WG881594
Bromomethane	ND	UJ	5.00	1	06/19/2016 21:38	WG881594
Carbon disulfide	ND		1.00	1	06/19/2016 21:38	WG881594
Carbon tetrachloride	ND		1.00	1	06/19/2016 21:38	WG881594
Chlorobenzene	103	J	1.00	1	06/19/2016 21:38	WG881594
Chlorodibromomethane	ND		1.00	1	06/19/2016 21:38	WG881594
Chloroethane	ND		5.00	1	06/19/2016 21:38	WG881594
Chloroform	ND		5.00	1	06/19/2016 21:38	WG881594
Chloromethane	ND		2.50	1	06/19/2016 21:38	WG881594
Cyclohexane	ND	R	1.00	1	06/19/2016 21:38	WG881594
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/19/2016 21:38	WG881594
1,2-Dibromoethane	ND		1.00	1	06/19/2016 21:38	WG881594
1,2-Dichlorobenzene	2.41	J	1.00	1	06/19/2016 21:38	WG881594
1,3-Dichlorobenzene	ND		1.00	1	06/19/2016 21:38	WG881594
1,4-Dichlorobenzene	ND		1.00	1	06/19/2016 21:38	WG881594
Dichlorodifluoromethane	ND		5.00	1	06/19/2016 21:38	WG881594
1,1-Dichloroethane	1.24	J	1.00	1	06/19/2016 21:38	WG881594
1,2-Dichloroethane	ND		1.00	1	06/19/2016 21:38	WG881594
1,1-Dichloroethene	ND		1.00	1	06/19/2016 21:38	WG881594
cis-1,2-Dichloroethene	ND		1.00	1	06/19/2016 21:38	WG881594
trans-1,2-Dichloroethene	ND		1.00	1	06/19/2016 21:38	WG881594
1,2-Dichloropropane	ND		1.00	1	06/19/2016 21:38	WG881594
cis-1,3-Dichloropropene	ND		1.00	1	06/19/2016 21:38	WG881594
trans-1,3-Dichloropropene	ND		1.00	1	06/19/2016 21:38	WG881594
Ethylbenzene	ND		1.00	1	06/19/2016 21:38	WG881594
2-Hexanone	ND		10.0	1	06/19/2016 21:38	WG881594
Isopropylbenzene	ND		1.00	1	06/19/2016 21:38	WG881594
2-Butanone (MEK)	ND		10.0	1	06/19/2016 21:38	WG881594
Methyl Acetate	ND	R	20.0	1	06/19/2016 21:38	WG881594
Methyl Cyclohexane	ND	R	1.00	1	06/19/2016 21:38	WG881594
Methylene Chloride	ND		5.00	1	06/19/2016 21:38	WG881594
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/19/2016 21:38	WG881594
Methyl tert-butyl ether	2.25	J	1.00	1	06/19/2016 21:38	WG881594
Naphthalene	ND		5.00	1	06/19/2016 21:38	WG881594
Styrene	ND		1.00	1	06/19/2016 21:38	WG881594
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/19/2016 21:38	WG881594
Tetrachloroethene	ND		1.00	1	06/19/2016 21:38	WG881594
Toluene	ND		5.00	1	06/19/2016 21:38	WG881594
1,2,3-Trichlorobenzene	ND		1.00	1	06/19/2016 21:38	WG881594
1,2,4-Trichlorobenzene	ND		1.00	1	06/19/2016 21:38	WG881594
1,1,1-Trichloroethane	ND		1.00	1	06/19/2016 21:38	WG881594
1,1,2-Trichloroethane	ND		1.00	1	06/19/2016 21:38	WG881594
Trichloroethene	ND	UJ	1.00	1	06/19/2016 21:38	WG881594
Trichlorofluoromethane	ND		5.00	1	06/19/2016 21:38	WG881594
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/19/2016 21:38	WG881594
Vinyl chloride	ND		1.00	1	06/19/2016 21:38	WG881594
o-Xylene	ND		1.00	1	06/19/2016 21:38	WG881594
m&p-Xylenes	ND		2.00	1	06/19/2016 21:38	WG881594
n-Butylbenzene	ND		1.00	1	06/19/2016 21:38	WG881594
sec-Butylbenzene	ND		1.00	1	06/19/2016 21:38	WG881594
tert-Butylbenzene	ND		1.00	1	06/19/2016 21:38	WG881594
1,2,4-Trimethylbenzene	ND		1.00	1	06/19/2016 21:38	WG881594

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,3,5-Trimethylbenzene	ND		1.00	1	06/19/2016 21:38	WG881594
n-Propylbenzene	ND		1.00	1	06/19/2016 21:38	WG881594
p-Isopropyltoluene	ND		1.00	1	06/19/2016 21:38	WG881594
(S) Toluene-d8	*106*		*90.0-115*		*06/19/2016 21:38*	WG881594
(S) Dibromofluoromethane	*124*	J1	*79.0-121*		*06/19/2016 21:38*	WG881594
(S) a,a,a-Trifluorotoluene	*104*		*90.4-116*		*06/19/2016 21:38*	WG881594
(S) 4-Bromofluorobenzene	*99.9*		*80.1-120*		*06/19/2016 21:38*	WG881594

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/19/2016 22:00	WG881594
Benzene	848		50.0	50	06/23/2016 23:56	WG882820
Bromochloromethane	ND		1.00	1	06/19/2016 22:00	WG881594
Bromodichloromethane	ND		1.00	1	06/19/2016 22:00	WG881594
Bromoform	ND		1.00	1	06/19/2016 22:00	WG881594
Bromomethane	~~ND~~	UJ	5.00	1	06/19/2016 22:00	WG881594
Carbon disulfide	ND		1.00	1	06/19/2016 22:00	WG881594
Carbon tetrachloride	ND		1.00	1	06/19/2016 22:00	WG881594
Chlorobenzene	ND		1.00	1	06/19/2016 22:00	WG881594
Chlorodibromomethane	ND		1.00	1	06/19/2016 22:00	WG881594
Chloroethane	ND		5.00	1	06/19/2016 22:00	WG881594
Chloroform	ND		5.00	1	06/19/2016 22:00	WG881594
Chloromethane	ND		2.50	1	06/19/2016 22:00	WG881594
Cyclohexane	~~82.3~~	R	1.00	1	06/19/2016 22:00	WG881594
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/19/2016 22:00	WG881594
1,2-Dibromoethane	ND		1.00	1	06/19/2016 22:00	WG881594
1,2-Dichlorobenzene	ND		1.00	1	06/19/2016 22:00	WG881594
1,3-Dichlorobenzene	ND		1.00	1	06/19/2016 22:00	WG881594
1,4-Dichlorobenzene	ND		1.00	1	06/19/2016 22:00	WG881594
Dichlorodifluoromethane	ND		5.00	1	06/19/2016 22:00	WG881594
1,1-Dichloroethane	ND		1.00	1	06/19/2016 22:00	WG881594
1,2-Dichloroethane	ND		1.00	1	06/19/2016 22:00	WG881594
1,1-Dichloroethene	ND		1.00	1	06/19/2016 22:00	WG881594
cis-1,2-Dichloroethene	ND		1.00	1	06/19/2016 22:00	WG881594
trans-1,2-Dichloroethene	ND		1.00	1	06/19/2016 22:00	WG881594
1,2-Dichloropropane	ND		1.00	1	06/19/2016 22:00	WG881594
cis-1,3-Dichloropropene	ND		1.00	1	06/19/2016 22:00	WG881594
trans-1,3-Dichloropropene	ND		1.00	1	06/19/2016 22:00	WG881594
Ethylbenzene	258		50.0	50	06/23/2016 23:56	WG882820
2-Hexanone	ND		10.0	1	06/19/2016 22:00	WG881594
Isopropylbenzene	21.0		1.00	1	06/19/2016 22:00	WG881594
2-Butanone (MEK)	ND		10.0	1	06/19/2016 22:00	WG881594
Methyl Acetate	~~ND~~	R	20.0	1	06/19/2016 22:00	WG881594
Methyl Cyclohexane	~~37.6~~	R	1.00	1	06/19/2016 22:00	WG881594
Methylene Chloride	ND		5.00	1	06/19/2016 22:00	WG881594
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/19/2016 22:00	WG881594
Methyl tert-butyl ether	ND		1.00	1	06/19/2016 22:00	WG881594
Naphthalene	620		250	50	06/23/2016 23:56	WG882820
Styrene	ND		1.00	1	06/19/2016 22:00	WG881594
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/19/2016 22:00	WG881594
Tetrachloroethene	ND		1.00	1	06/19/2016 22:00	WG881594
Toluene	71.9		5.00	1	06/19/2016 22:00	WG881594
1,2,3-Trichlorobenzene	ND		1.00	1	06/19/2016 22:00	WG881594
1,2,4-Trichlorobenzene	ND		1.00	1	06/19/2016 22:00	WG881594
1,1,1-Trichloroethane	ND		1.00	1	06/19/2016 22:00	WG881594
1,1,2-Trichloroethane	ND		1.00	1	06/19/2016 22:00	WG881594
Trichloroethene	~~ND~~	UJ	1.00	1	06/19/2016 22:00	WG881594
Trichlorofluoromethane	ND		5.00	1	06/19/2016 22:00	WG881594
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/19/2016 22:00	WG881594
Vinyl chloride	ND		1.00	1	06/19/2016 22:00	WG881594
o-Xylene	332		50.0	50	06/23/2016 23:56	WG882820
m&p-Xylenes	3220		100	50	06/23/2016 23:56	WG882820
n-Butylbenzene	4.16		1.00	1	06/19/2016 22:00	WG881594
sec-Butylbenzene	6.29		1.00	1	06/19/2016 22:00	WG881594
tert-Butylbenzene	ND		1.00	1	06/19/2016 22:00	WG881594
1,2,4-Trimethylbenzene	1540		50.0	50	06/23/2016 23:56	WG882820

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,3,5-Trimethylbenzene	197		1.00	1	06/19/2016 22:00	WG881594
n-Propylbenzene	18.2		1.00	1	06/19/2016 22:00	WG881594
p-Isopropyltoluene	6.71		1.00	1	06/19/2016 22:00	WG881594
(S) Toluene-d8	*101*		*90.0-115*		*06/19/2016 22:00*	WG881594
(S) Toluene-d8	*103*		*90.0-115*		*06/23/2016 23:56*	WG882820
(S) Dibromofluoromethane	*98.5*		*79.0-121*		*06/23/2016 23:56*	WG882820
(S) Dibromofluoromethane	*112*		*79.0-121*		*06/19/2016 22:00*	WG881594
(S) a,a,a-Trifluorotoluene	*96.6*		*90.4-116*		*06/19/2016 22:00*	WG881594
(S) a,a,a-Trifluorotoluene	*99.1*		*90.4-116*		*06/23/2016 23:56*	WG882820
(S) 4-Bromofluorobenzene	*97.9*		*80.1-120*		*06/23/2016 23:56*	WG882820
(S) 4-Bromofluorobenzene	*92.6*		*80.1-120*		*06/19/2016 22:00*	WG881594

Method Blank (MB)

(MB) R3144495-3 06/19/16 15:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Benzene	U		0.331	1.00
Bromodichloromethane	U		0.380	1.00
Bromochloromethane	U		0.520	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
n-Butylbenzene	U		0.361	1.00
sec-Butylbenzene	U		0.365	1.00
tert-Butylbenzene	U		0.399	1.00
Carbon disulfide	U		0.275	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
Cyclohexane	U		0.390	1.00
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
Dichlorodifluoromethane	U		0.551	5.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
Ethylbenzene	U		0.384	1.00
2-Hexanone	U		3.82	10.0
Isopropylbenzene	U		0.326	1.00
p-Isopropyltoluene	U		0.350	1.00
2-Butanone (MEK)	U		3.93	10.0
Methyl Acetate	U		4.30	20.0
Methyl Cyclohexane	U		0.380	1.00
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0

Method Blank (MB)

(MB) R3144495-3 06/19/16 15:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.349	1.00
Styrene	U		0.307	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.780	5.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.355	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00
Trichloroethene	U		0.398	1.00
Trichlorofluoromethane	U		1.20	5.00
1,2,4-Trimethylbenzene	U		0.373	1.00
1,3,5-Trimethylbenzene	U		0.387	1.00
Vinyl chloride	U		0.259	1.00
o-Xylene	U		0.341	1.00
m&p-Xylenes	U		0.719	2.00
(S) Toluene-d8	*106*			*90.0-115*
(S) Dibromofluoromethane	*116*			*79.0-121*
(S) a,a,a-Trifluorotoluene	*106*			*90.4-116*
(S) 4-Bromofluorobenzene	*95.3*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3144495-1 06/19/16 13:56 • (LCSD) R3144495-2 06/19/16 14:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	197	189	157	151	28.7-175			3.94	20.9
Benzene	25.0	28.9	28.0	116	112	73.0-122			3.31	20
Bromodichloromethane	25.0	25.1	24.7	100	98.8	75.5-121			1.55	20
Bromochloromethane	25.0	26.8	25.5	107	102	78.9-123			4.95	20
Bromoform	25.0	20.5	20.6	82.0	82.5	71.5-131			0.530	20
Bromomethane	25.0	17.9	17.1	71.6	68.6	22.4-187			4.37	20
n-Butylbenzene	25.0	26.9	26.0	107	104	75.9-134			3.49	20
sec-Butylbenzene	25.0	23.6	23.1	94.5	92.4	80.6-126			2.18	20
tert-Butylbenzene	25.0	22.5	21.5	90.0	85.9	79.3-127			4.60	20
Carbon disulfide	25.0	21.3	20.3	85.3	81.1	53.0-134			5.08	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3144495-1 06/19/16 13:56 • (LCSD) R3144495-2 06/19/16 14:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Carbon tetrachloride	25.0	26.9	25.7	108	103	70.9-129			4.44	20
Chlorobenzene	25.0	21.9	21.7	87.5	87.0	79.7-122			0.560	20
Chlorodibromomethane	25.0	22.0	21.3	88.2	85.3	78.2-124			3.33	20
Chloroethane	25.0	19.9	19.1	79.5	76.3	41.2-153			4.18	20
Chloroform	25.0	28.7	27.6	115	111	73.2-125			3.60	20
Chloromethane	25.0	26.5	25.1	106	100	55.8-134			5.37	20
1,2-Dibromo-3-Chloropropane	25.0	25.4	24.2	102	96.7	64.8-131			5.12	20
1,2-Dibromoethane	25.0	21.6	21.8	86.5	87.4	79.8-122			1.06	20
1,2-Dichlorobenzene	25.0	24.5	23.6	97.9	94.4	84.7-118			3.62	20
1,3-Dichlorobenzene	25.0	19.4	19.5	77.6	78.0	77.6-127			0.440	20
1,4-Dichlorobenzene	25.0	22.3	22.0	89.0	88.1	82.2-114			0.980	20
Dichlorodifluoromethane	25.0	22.8	22.1	91.1	88.5	56.0-134			2.90	20
1,1-Dichloroethane	25.0	30.4	29.6	122	118	71.7-127			2.79	20
1,2-Dichloroethane	25.0	30.0	28.9	120	116	79.8-122			3.60	20
1,1-Dichloroethene	25.0	22.9	21.9	91.8	87.5	59.9-137			4.73	20
cis-1,2-Dichloroethene	25.0	28.6	27.8	114	111	77.3-122			2.91	20
trans-1,2-Dichloroethene	25.0	27.8	26.5	111	106	72.6-125			4.94	20
1,2-Dichloropropane	25.0	27.8	27.2	111	109	77.4-125			2.27	20
cis-1,3-Dichloropropene	25.0	25.4	24.7	102	98.8	77.7-124			2.76	20
trans-1,3-Dichloropropene	25.0	23.5	24.5	94.0	98.0	73.5-127			4.17	20
Ethylbenzene	25.0	22.7	22.5	90.6	90.1	80.9-121			0.610	20
2-Hexanone	125	153	161	122	129	59.4-151			5.17	20
Isopropylbenzene	25.0	24.1	23.3	96.6	93.3	81.6-124			3.43	20
p-Isopropyltoluene	25.0	22.6	22.3	90.4	89.1	77.6-129			1.37	20
2-Butanone (MEK)	125	180	174	144	139	46.4-155			3.29	20
Methylene Chloride	25.0	26.7	25.7	107	103	69.5-120			3.98	20
4-Methyl-2-pentanone (MIBK)	125	144	145	115	116	63.3-138			0.640	20
Methyl tert-butyl ether	25.0	29.7	28.6	119	114	70.1-125			3.95	20
Naphthalene	25.0	25.8	24.8	103	99.1	69.7-134			4.20	20
n-Propylbenzene	25.0	23.0	22.7	91.9	90.7	81.9-122			1.29	20
Styrene	25.0	23.1	23.3	92.5	93.3	79.9-124			0.850	20
1,1,2,2-Tetrachloroethane	25.0	22.7	22.2	90.8	88.7	79.3-123			2.24	20
Tetrachloroethene	25.0	20.0	20.0	80.0	79.9	73.5-130			0.170	20
Toluene	25.0	24.1	24.2	96.5	96.6	77.9-116			0.120	20
1,1,2-Trichlorotrifluoroethane	25.0	23.5	22.5	94.1	90.0	62.0-141			4.49	20
1,2,3-Trichlorobenzene	25.0	24.7	23.5	98.9	93.9	75.7-134			5.18	20
1,2,4-Trichlorobenzene	25.0	23.1	22.7	92.2	90.7	76.1-136			1.66	20
1,1,1-Trichloroethane	25.0	27.6	26.5	110	106	71.1-129			4.06	20
1,1,2-Trichloroethane	25.0	22.1	21.9	88.2	87.4	81.6-120			0.890	20
Trichloroethene	25.0	24.5	24.5	98.1	97.9	79.5-121			0.280	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3144495-1 06/19/16 13:56 • (LCSD) R3144495-2 06/19/16 14:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Trichlorofluoromethane	25.0	21.0	20.2	83.8	80.8	49.1-157			3.65	20
1,2,4-Trimethylbenzene	25.0	23.0	22.7	92.0	90.9	79.0-122			1.28	20
1,3,5-Trimethylbenzene	25.0	22.9	22.3	91.5	89.3	81.0-123			2.44	20
Vinyl chloride	25.0	25.4	24.7	101	98.8	61.5-134			2.69	20
o-Xylene	25.0	23.4	22.6	93.7	90.3	79.1-123			3.69	20
m&p-Xylenes	50.0	45.5	45.3	91.1	90.7	78.5-122			0.450	20
(S) Toluene-d8				*104*	*107*	*90.0-115*				
(S) Dibromofluoromethane				*117*	*115*	*79.0-121*				
(S) a,a,a-Trifluorotoluene				*104*	*106*	*90.4-116*				
(S) 4-Bromofluorobenzene				*92.8*	*96.9*	*80.1-120*				

non-program sample.

L842228-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L842228-01 06/19/16 22:23 • (MS) R3144495-4 06/19/16 23:30 • (MSD) R3144495-5 06/19/16 23:53

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	125	ND	116	133	81.1	94.5	1	25.0-156			13.5	21.5
Benzene	25.0	ND	26.1	28.8	104	115	1	58.6-133			9.80	20
Bromodichloromethane	25.0	ND	23.8	26.3	95.2	105	1	69.2-127			10.1	20
Bromochloromethane	25.0	ND	24.2	27.3	97.0	109	1	74.4-128			11.7	20
Bromoform	25.0	ND	20.8	21.0	83.2	84.1	1	66.3-140			1.13	20
Bromomethane	25.0	ND	14.9	18.0	59.4	71.9	1	16.6-183			19.0	20.5
n-Butylbenzene	25.0	ND	23.5	27.2	93.9	109	1	64.8-145			14.7	20
sec-Butylbenzene	25.0	ND	21.1	23.4	84.3	93.7	1	66.8-139			10.6	20
tert-Butylbenzene	25.0	ND	20.7	22.7	83.0	91.0	1	67.1-138			9.25	20
Carbon disulfide	25.0	ND	15.5	18.1	60.8	71.1	1	34.9-138			15.5	20
Carbon tetrachloride	25.0	ND	23.5	27.3	94.2	109	1	60.6-139			14.6	20
Chlorobenzene	25.0	ND	20.9	22.0	83.7	88.1	1	70.1-130			5.07	20
Chlorodibromomethane	25.0	ND	22.2	22.4	88.8	89.7	1	71.6-132			1.04	20
Chloroethane	25.0	ND	17.8	20.6	71.2	82.4	1	33.3-155			14.5	20
Chloroform	25.0	ND	26.1	29.4	104	118	1	66.1-133			11.9	20
Chloromethane	25.0	ND	22.9	26.1	91.5	105	1	40.7-139			13.3	20
1,2-Dibromo-3-Chloropropane	25.0	ND	23.0	26.8	92.0	107	1	63.9-142			15.1	20.2
1,2-Dibromoethane	25.0	ND	22.1	22.2	88.4	89.0	1	73.8-131			0.690	20
1,2-Dichlorobenzene	25.0	ND	21.7	24.9	86.9	99.5	1	77.4-127			13.5	20
1,3-Dichlorobenzene	25.0	ND	18.7	19.7	74.7	78.7	1	67.9-136			5.24	20
1,4-Dichlorobenzene	25.0	ND	20.8	22.9	83.1	91.5	1	74.4-123			9.65	20
Dichlorodifluoromethane	25.0	ND	21.8	25.5	87.3	102	1	42.2-146			15.6	20
1,1-Dichloroethane	25.0	ND	27.1	31.4	108	125	1	64.0-134			14.6	20

L842228-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L842228-01 06/19/16 22:23 • (MS) R3144495-4 06/19/16 23:30 • (MSD) R3144495-5 06/19/16 23:53

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2-Dichloroethane	25.0	ND	28.5	30.9	114	123	1	60.7-132			8.07	20
1,1-Dichloroethene	25.0	ND	19.9	22.5	79.4	89.9	1	48.8-144			12.3	20
cis-1,2-Dichloroethene	25.0	6.00	30.2	34.8	96.9	115	1	60.6-136			14.2	20
trans-1,2-Dichloroethene	25.0	ND	23.7	27.4	94.7	110	1	61.0-132			14.5	20
1,2-Dichloropropane	25.0	ND	25.3	28.1	101	112	1	69.7-130			10.5	20
cis-1,3-Dichloropropene	25.0	ND	24.4	25.0	97.4	100	1	71.1-129			2.63	20
trans-1,3-Dichloropropene	25.0	ND	24.5	24.3	97.9	97.4	1	66.3-136			0.580	20
Ethylbenzene	25.0	ND	20.6	22.4	82.5	89.8	1	62.7-136			8.45	20
2-Hexanone	125	ND	139	137	112	110	1	59.4-154			1.48	20.1
Isopropylbenzene	25.0	ND	21.0	23.6	83.9	94.4	1	67.4-136			11.9	20
p-Isopropyltoluene	25.0	ND	21.0	23.1	83.9	92.5	1	62.8-143			9.73	20
2-Butanone (MEK)	125	ND	147	147	117	118	1	45.0-156			0.530	20.8
Methylene Chloride	25.0	ND	22.8	26.7	91.3	107	1	61.5-125			15.6	20
4-Methyl-2-pentanone (MIBK)	125	ND	145	158	116	126	1	60.7-150			8.43	20
Methyl tert-butyl ether	25.0	ND	26.7	30.8	107	123	1	61.4-136			14.5	20
Naphthalene	25.0	ND	22.5	26.7	73.6	90.4	1	61.8-143			17.0	20
n-Propylbenzene	25.0	ND	21.3	22.9	85.3	91.8	1	63.2-139			7.32	20
Styrene	25.0	ND	22.5	23.3	90.1	93.4	1	68.2-133			3.51	20
1,1,2,2-Tetrachloroethane	25.0	ND	22.2	23.9	89.0	95.6	1	64.9-145			7.14	20
Tetrachloroethene	25.0	40.3	49.6	52.6	37.0	49.2	1	57.4-141	J6	J6	5.95	20
Toluene	25.0	ND	22.1	23.9	88.4	95.7	1	67.8-124			7.99	20
1,1,2-Trichlorotrifluoroethane	25.0	ND	20.6	24.2	82.5	96.7	1	53.7-150			15.8	20
1,2,3-Trichlorobenzene	25.0	ND	20.9	25.0	83.7	99.9	1	65.7-143			17.7	20
1,2,4-Trichlorobenzene	25.0	ND	20.0	23.7	79.9	94.9	1	67.0-146			17.2	20
1,1,1-Trichloroethane	25.0	ND	23.5	28.1	94.1	112	1	62.8-138			17.6	20
1,1,2-Trichloroethane	25.0	ND	22.0	22.9	88.0	91.6	1	74.1-130			3.99	20
Trichloroethene	25.0	4.53	25.2	27.9	82.6	93.4	1	48.9-148			10.1	20
Trichlorofluoromethane	25.0	ND	18.4	21.6	73.6	86.3	1	39.9-165			15.9	20
1,2,4-Trimethylbenzene	25.0	ND	21.3	23.6	81.3	90.6	1	60.5-137			10.3	20
1,3,5-Trimethylbenzene	25.0	ND	20.5	22.8	81.9	91.2	1	67.9-134			10.7	20
Vinyl chloride	25.0	ND	22.8	26.4	91.1	105	1	44.3-143			14.6	20
o-Xylene	25.0	ND	20.8	23.3	83.3	93.3	1	67.1-133			11.3	20
m&p-Xylenes	50.0	ND	42.2	44.2	82.1	86.0	1	64.1-133			4.57	20
(S) Toluene-d8					*105*	*104*		*90.0-115*				
(S) Dibromofluoromethane					*115*	*118*		*79.0-121*				
(S) a,a,a-Trifluorotoluene					*101*	*104*		*90.4-116*				
(S) 4-Bromofluorobenzene					*102*	*95.1*		*80.1-120*				

Method Blank (MB)

(MB) R3145577-3 06/23/16 19:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
Ethylbenzene	U		0.384	1.00
Naphthalene	U		1.00	5.00
1,2,4-Trimethylbenzene	U		0.373	1.00
o-Xylene	U		0.341	1.00
m&p-Xylenes	U		0.719	2.00
(S) Toluene-d8	*102*			*90.0-115*
(S) Dibromofluoromethane	*100*			*79.0-121*
(S) a,a,a-Trifluorotoluene	*97.8*			*90.4-116*
(S) 4-Bromofluorobenzene	*98.6*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3145577-1 06/23/16 18:20 • (LCSD) R3145577-2 06/23/16 18:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	25.0	25.5	27.1	102	109	73.0-122			6.07	20
Ethylbenzene	25.0	26.7	28.2	107	113	80.9-121			5.28	20
Naphthalene	25.0	25.6	28.1	102	112	69.7-134			9.44	20
1,2,4-Trimethylbenzene	25.0	26.9	29.3	108	117	79.0-122			8.57	20
o-Xylene	25.0	26.0	27.5	104	110	79.1-123			5.48	20
m&p-Xylenes	50.0	52.9	56.3	106	113	78.5-122			6.26	20
(S) Toluene-d8				*102*	*104*	*90.0-115*				
(S) Dibromofluoromethane				*101*	*102*	*79.0-121*				
(S) a,a,a-Trifluorotoluene				*97.8*	*98.9*	*90.4-116*				
(S) 4-Bromofluorobenzene				*98.6*	*99.8*	*80.1-120*				

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Quality Control Summary
SDG: L842221
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260C		
Project No:	209395	Matrix:	Water - mg/L
Project:	Dorschel PRR 3865/3875 WHR 6/2016	EPA ID:	TN00003
Collection Date:	6/14/2016	**Analytic Batch:**	**WG881594**
Analysis Date:	6/19/2016	Analyst:	712
Instrument ID:	VOCMS4		
Sample Numbers:	L842221-01, -02		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS4	LCS WG881594	LCS WG881594	0619_04A.D	6/19/2016	1:56 PM
VOCMS4	LCSD WG881594	LCSD WG881594	0619_05A.D	6/19/2016	2:18 PM
VOCMS4	Blank WG881594	Blank WG881594	0619_09A.D	6/19/2016	3:48 PM
VOCMS4	MW-3R	L842221-01	0619_22A.D	6/19/2016	9:38 PM
VOCMS4	MW-7	L842221-02	0619_23A.D	6/19/2016	10:00 PM
VOCMS4	MS WG881594	MS WG881594	0619_27A.D	6/19/2016	11:30 PM
VOCMS4	MSD WG881594	MSD WG881594	0619_28A.D	6/19/2016	11:53 PM

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Quality Control Summary
SDG: L842221
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260C		
Project No:	209395	Matrix:	Water - mg/L
Project:	Dorschel PRR 3865/3875 WHR 6/2016	EPA ID:	TN00003
Collection Date:	6/14/2016	**Analytic Batch:**	**WG882820**
Analysis Date:	6/23/2016	Analyst:	074
Instrument ID:	VOCMS36		
Sample Numbers:	L842221-02		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS36	LCS WG882820	LCS WG882820	0623_04.D	6/23/2016	6:20 PM
VOCMS36	LCSD WG882820	LCSD WG882820	0623_05.D	6/23/2016	6:40 PM
VOCMS36	Blank WG882820	Blank WG882820	0623_08.D	6/23/2016	7:39 PM
VOCMS36	MW-7	L842221-02	0623_16.D	6/23/2016	11:56 PM

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Est. 1970

Quality Control Summary
SDG: L842221
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 209395
Project: Dorschel PRR 3865/3875 WHR 6/2016
Collection Date: 6/14/2016
Analysis Date: 6/19/2016
Instrument ID: VOCMS4
Sample Numbers: L842221-01, -02

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG881594
Analyst: 712

Internal Standard Response and Retention Time Summary

File ID: 0619_02A
Analyzed: 06/19/16 124600

	IS1		IS2		IS3		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	547035	4.19	927403	4.52	154095	5.66	422115	8.04
Upper Limit	1090000	4.69	1850000	5.02	308000	6.16	844000	8.54
Lower Limit	274000	3.69	464000	4.02	77000	5.16	211000	7.54
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L842221-01	452314	4.19	749119	4.52	127319	5.66	338162	8.04
L842221-02	566903	4.19	1043748	4.52	163686	5.66	432805	8.04
MSD WG881594	472776	4.19	793669	4.52	136710	5.66	363567	8.04
MS WG881594	547683	4.19	939202	4.52	161188	5.66	447454	8.04
LCSD WG881594	537242	4.19	872773	4.52	150291	5.66	405067	8.04
LCS WG881594	519012	4.19	867565	4.52	145364	5.66	382580	8.04
BLANK WG881594	488969	4.19	803373	4.52	137306	5.66	358814	8.04

Legend:
IS1 -- PENTAFLUOROBENZENE
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS4 -- 1,4-DICHLOROBENZENE-D4

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Est. 1970

Quality Control Summary
SDG: L842221
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 209395
Project: Dorschel PRR 3865/3875 WHR 6/2016
Collection Date: 6/14/2016
Analysis Date: 6/23/2016
Instrument ID: VOCMS36
Sample Numbers: L842221-02

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG882820
Analyst: 074

Internal Standard Response and Retention Time Summary

File ID: 0623_02
Analyzed: 06/23/16 150700

	IS1		IS2		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	378211	4.09	734568	4.42	267746	8.04
Upper Limit	756000	4.59	1470000	4.92	535000	8.54
Lower Limit	189000	3.59	367000	3.92	134000	7.54
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
LCSD WG882820	350029	4.10	681801	4.43	252812	8.05
LCS WG882820	359074	4.10	701716	4.43	257336	8.05
BLANK WG882820	358849	4.10	700337	4.42	259642	8.04

Legend:
IS1 -- PENTAFLUOROBENZENE
IS2 -- 1,4-DIFLUOROBENZENE
IS4 -- 1,4-DICHLOROBENZENE-D4

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Est. 1970

Quality Control Summary
SDG: L842221
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260C		
Project No:	209395	Matrix:	Water - mg/L
Project:	Dorschel PRR 3865/3875 WHR 6/2016	EPA ID:	TN00003
Collection Date:	6/14/2016	**Analytic Batch:**	**WG882820**
Analysis Date:	6/23/2016	Analyst:	074
Instrument ID:	VOCMS36		
Sample Numbers:	L842221-02		

Internal Standard Response and Retention Time Summary

File ID: 0623_10
Analyzed: 06/23/16 204600

	IS1		IS2		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	354381	4.10	687620	4.43	246028	8.04
Upper Limit	756000	4.60	1470000	4.93	535000	8.54
Lower Limit	189000	3.60	367000	3.93	134000	7.54
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L842221-02	349981 ✓	4.09	674953 ✓	4.42	240851 ✓	8.04

Legend:
IS1 -- PENTAFLUOROBENZENE
IS2 -- 1,4-DIFLUOROBENZENE
IS4 -- 1,4-DICHLOROBENZENE-D4

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L842221
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 209395
Project: Dorschel PRR 3865/3875 WHR 6/2016
Collection Date: 6/14/2016
Analysis Date: 6/19/2016
Instrument ID: VOCMS4
Sample Numbers: L842221-01, -02

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG881594
Analyst: 712

Surrogate Summary

			BFB		TFT		DFM		TD8	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L842221-01	VOCMS4	0619_22A	0.0399	99.9	0.0416	104	0.0496	124 J1	0.0424	106
L842221-02	VOCMS4	0619_23A	0.0370	92.6	0.0386	96.6	0.0450	112	0.0405	101
LCS WG881594	VOCMS4	0619_04A	0.0371	92.8	0.0415	104	0.0467	117	0.0416	104
LCSD WG881594	VOCMS4	0619_05A	0.0388	96.9	0.0422	106	0.0461	115	0.0427	107
BLANK WG881594	VOCMS4	0619_09A	0.0381	95.3	0.0423	106	0.0464	116	0.0425	106
MS WG881594	VOCMS4	0619_27A	0.0407	102	0.0403	101	0.0460	115	0.0420	105
MSD WG881594	VOCMS4	0619_28A	0.0380	95.1	0.0418	104	0.0472	118	0.0416	104

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 80.1 - 120
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 90.4 - 116
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 79 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 90 - 115

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Est. 1970

Quality Control Summary
SDG: L842221
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 209395
Project: Dorschel PRR 3865/3875 WHR 6/2016
Collection Date: 6/14/2016
Analysis Date: 6/23/2016
Instrument ID: VOCMS36
Sample Numbers: L842221-02

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG882820
Analyst: 074

Surrogate Summary

			BFB		TFT		DFM		TD8	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L842221-02	VOCMS36	0623_16	0.0392	97.9	0.0397	99.1	0.0394	98.5	0.0410	103
LCS WG882820	VOCMS36	0623_04	0.0394	98.6	0.0391	97.8	0.0404	101	0.0409	102
LCSD WG882820	VOCMS36	0623_05	0.0399	99.8	0.0396	98.9	0.0409	102	0.0414	104
BLANK WG882820	VOCMS36	0623_08	0.0394	98.6	0.0391	97.8	0.0400	100	0.0408	102

BFB --4-BROMOFLUOROBENZENE — True Value: 0.04 ppm Limits: 80.1 - 120

TFT --A,A,A-TRIFLUOROTOLUENE — True Value: 0.04 ppm Limits: 90.4 - 116

DFM --DIBROMOFLUOROMETHANE — True Value: 0.04 ppm Limits: 79 - 121

TD8 --TOLUENE-D8 — True Value: 0.04 ppm Limits: 90 - 115

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Quality Control Summary
SDG: L842221
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 209395
Project: Dorschel PRR 3865/3875 WHR 6/2016 EPA ID: TN00003
Collection Date: 6/14/2016
Instrument ID: VOCMS4

Instrument Performance Summary

FileID: 0619_02A.D Date: 6/19/2016 Time: 12:46 PM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	17.2
75	30 - 60% of mass 95	47.3
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.6
173	0 - 2% of mass 174	0.3
174	50 - 150% of mass 95	69.6
175	5 - 9% of mass 174	7.2
176	95 - 101% of mass 174	96.8
177	5 - 9% of mass 176	6.9

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG881594	LCS WG881594	0619_04A.D	6/19/2016	1:56 PM
LCSD WG881594	LCSD WG881594	0619_05A.D	6/19/2016	2:18 PM
Blank WG881594	Blank WG881594	0619_09A.D	6/19/2016	3:48 PM
MW-3R	L842221-01	0619_22A.D	6/19/2016	9:38 PM
MW-7	L842221-02	0619_23A.D	6/19/2016	10:00 PM
MS WG881594	MS WG881594	0619_27A.D	6/19/2016	11:30 PM
MSD WG881594	MSD WG881594	0619_28A.D	6/19/2016	11:53 PM

** - calibrated by linear regression

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Est. 1970

Quality Control Summary
SDG: L842221
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 209395
Project: Dorschel PRR 3865/3875 WHR 6/2016 EPA ID: TN00003
Collection Date: 6/14/2016
Instrument ID: VOCMS36

Instrument Performance Summary

FileID: 0623_02.D Date: 6/23/2016 Time: 3:07 PM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	15
75	30 - 60% of mass 95	46.1
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.8
173	0 - 2% of mass 174	1.2
174	50 - 150% of mass 95	59.5
175	5 - 9% of mass 174	7.9
176	95 - 101% of mass 174	98.3
177	5 - 9% of mass 176	6.8

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG882820	LCS WG882820	0623_04.D	6/23/2016	6:20 PM
LCSD WG882820	LCSD WG882820	0623_05.D	6/23/2016	6:40 PM
Blank WG882820	Blank WG882820	0623_08.D	6/23/2016	7:39 PM

** - calibrated by linear regression

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Est. 1970

Quality Control Summary
SDG: L842221
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 209395
Project: Dorschel PRR 3865/3875 WHR 6/2016 EPA ID: TN00003
Collection Date: 6/14/2016
Instrument ID: VOCMS36

Instrument Performance Summary

FileID: 0623_10.D Date: 6/23/2016 Time: 8:46 PM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	15.4
75	30 - 60% of mass 95	46.7
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	7
173	0 - 2% of mass 174	1.2
174	50 - 150% of mass 95	60.1
175	5 - 9% of mass 174	8.2
176	95 - 101% of mass 174	97
177	5 - 9% of mass 176	6.9

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
MW-7	L842221-02	0623_16.D	6/23/2016	11:56 PM

** - calibrated by linear regression

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APPENDIX C

October 6, 2015 Site Inspection Forms and Photograph

LABELLA Associates, P.C.

300 State Street
Rochester, New York 14614
Phone: (585) 454-6110
Fax: (585) 454-3066

SITE-WIDE INSPECTION FORM

Project Name: NYSDEC BCP Site No. C828134
Location: 3865 & 3875 West Henrietta Road, Rochester, New York
Project No.: 209395
Inspected By: N. NZINUA
Date of Inspection: 10/6/15
Weather Conditions: 60°F, Overcast

INSPECTION FINDINGS

SSDS VENT FAN & GENERAL LOCATION	FAN OPERATING PROPERLY (YES/NO) and MANOMETER READING (H_20"): Fan Operation: Yes	PIPING and LABELLING IN GOOD CONDITION (YES/NO)	COMMENTS AND/OR ACTIONS TAKEN
3875 W. Henrietta Rd.	North -0.760 -0.443 South -0.304 -0.255	Yes	None
BIO-CELL	BIO-CELL MONITOROING (YES/NO)	BIOCELL IN GOOD CONDITION (YES/NO)	COMMENTS AND/OR ACTIONS TAKEN
N/A	N/A	N/A	NONE
GENERAL SITE CONDITIONS	CURRENT USE OF SITE (COMMERCIAL/ RESIDENTIAL/ETC.)	SITE RECORDS UP TO DATE (YES/NO)	COMMENTS AND/OR ACTIONS TAKEN
Good Condition	Commercial	Yes	None.

LABELLA Associates, P.C.

300 State Street
Rochester, New York 14614
Phone: (585) 454-6110
Fax: (585) 454-3066

SITE-WIDE INSPECTION FORM

Project Name: NYSDEC BCP Site No. C828134
Location: 3865 & 3875 West Henrietta Road, Rochester, New York
Project No.: 209395
Inspected By: N. INZINNA
Date of Inspection: 10/6/15
Weather Conditions: 60°F, Overcast

INSPECTION FINDINGS

SSDS VENT FAN & GENERAL LOCATION	FAN OPERATING PROPERLY (YES/NO) and MANOMETER READING (H_20"):	PIPING and LABELLING IN GOOD CONDITION (YES/NO)	COMMENTS AND/OR ACTIONS TAKEN
3865 W. Henrietta Rd. South Bathroom, East Wall	Yes 2.5" H_2O	Yes	None
BIO-CELL	**BIO-CELL MONITOROING (YES/NO)**	**BIOCELL IN GOOD CONDITION (YES/NO)**	**COMMENTS AND/OR ACTIONS TAKEN**
N/A	N/A	N/A	NONE
GENERAL SITE CONDITIONS	**CURRENT USE OF SITE (COMMERCIAL/ RESIDENTIAL/ETC.)**	**SITE RECORDS UP TO DATE (YES/NO)**	**COMMENTS AND/OR ACTIONS TAKEN**
Good Condition	Commercial	Yes	None

.1"WC/Div

4

3

2

1

0

Easy Read Dynameter

RadonAway

vacuum pressure,
pressure provides an
is operating.
be tested for Radon at
or as required or
local agencies

COLUMNS ARE AT ZERO

CHANGES SUBSTANTIALLY

TECH

#100722

657-7480

2.5"

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX D

July 7, 2016 Site Inspection Form and Photograph

LABELLA Associates, P.C.

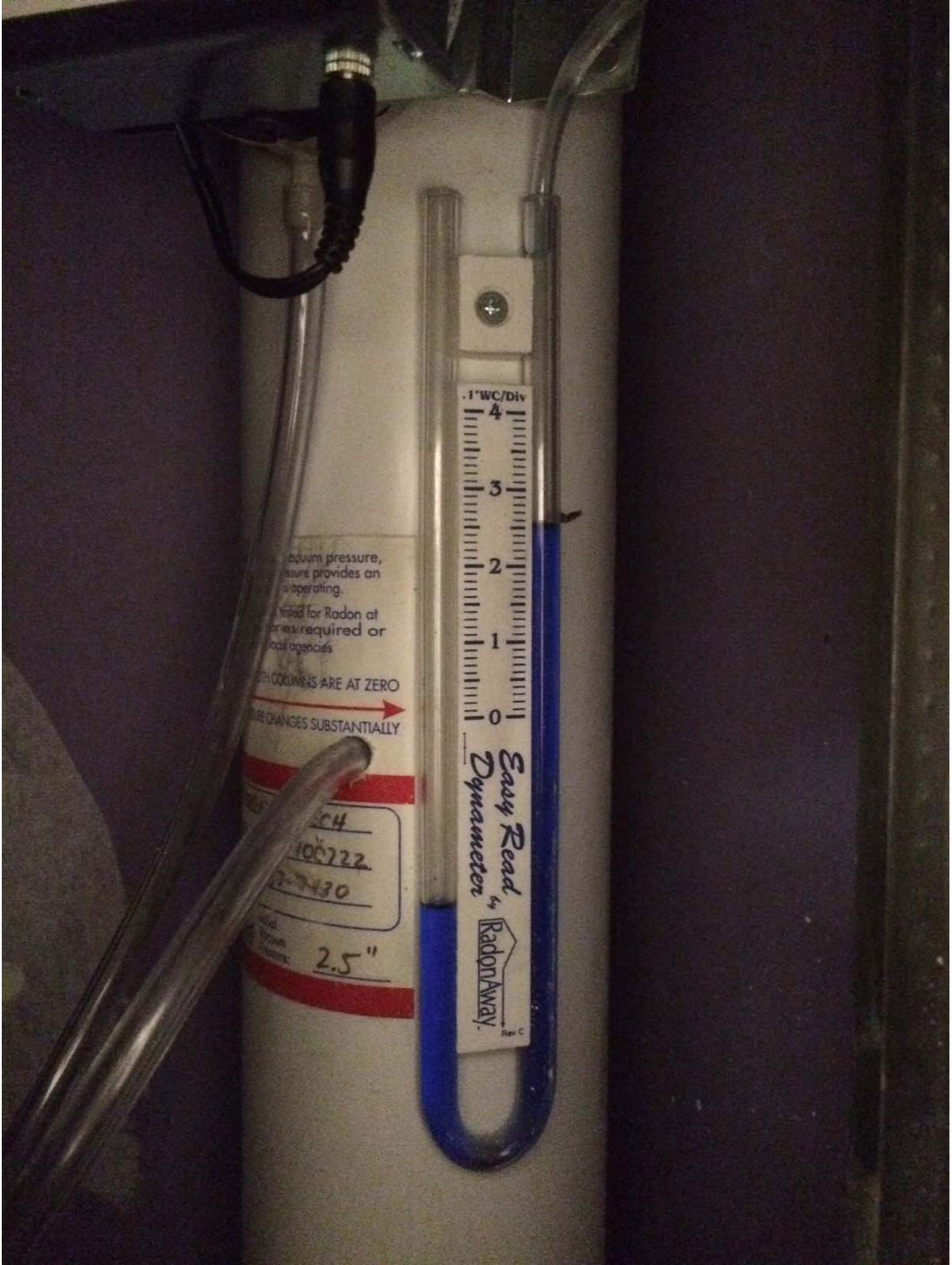
300 State Street
Rochester, New York 14614
Phone: (585) 454-6110
Fax: (585) 454-3066

SITE-WIDE INSPECTION FORM

Project Name: NYSDEC BCP Site No. C828134
Location: 3865 & 3875 West Henrietta Road, Rochester, New York
Project No.: 209395
Inspected By: N. LNZ)NNA
Date of Inspection: 7/7/16
Weather Conditions: 85° Partly Cloudy

INSPECTION FINDINGS

3875 KRM ~~3865~~ Building SSDS VENT FAN & GENERAL LOCATION	FAN OPERATING PROPERLY (YES/NO) and MANOMETER READING (H_20"):	PIPING and LABELLING IN GOOD CONDITION (YES/NO)	COMMENTS AND/OR ACTIONS TAKEN
7/7/16: 2 Interior Locations Customer Area (N) Service Area (S)	N -0.593 -0.198 S -0.237 -0.187	Yes	None
3865 KRM ~~3875~~ Building SSDS VENT FAN & GENERAL LOCATION	FAN OPERATING PROPERLY KRM (YES/NO) and MANOMETER READING (H_20"):	PIPING and LABELLING IN GOOD CONDITION (YES/NO)	COMMENTS AND/OR ACTIONS TAKEN
Interior Woman's Restroom, Behind Panel	NA	Yes	Photo Taken
GENERAL SITE CONDITIONS	CURRENT USE OF SITE (COMMERCIAL/ RESIDENTIAL/ETC.)	SITE RECORDS UP TO DATE (YES/NO)	COMMENTS AND/OR ACTIONS TAKEN
Good Condition	Commercial	Yes	None


.1"WC/Div
4
3
2
1
0
Easy Read
Dynameter
RadonAway
Rev C
vacuum pressure,
sure provides an
operating.
for Radon at
required or
agencies
COLUMNS ARE AT ZERO
CHANGES SUBSTANTIALLY
2.5"

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APPENDIX E

As-Built Drawings of SSDSs at
3865 & 3875 West Henrietta Road Buildings

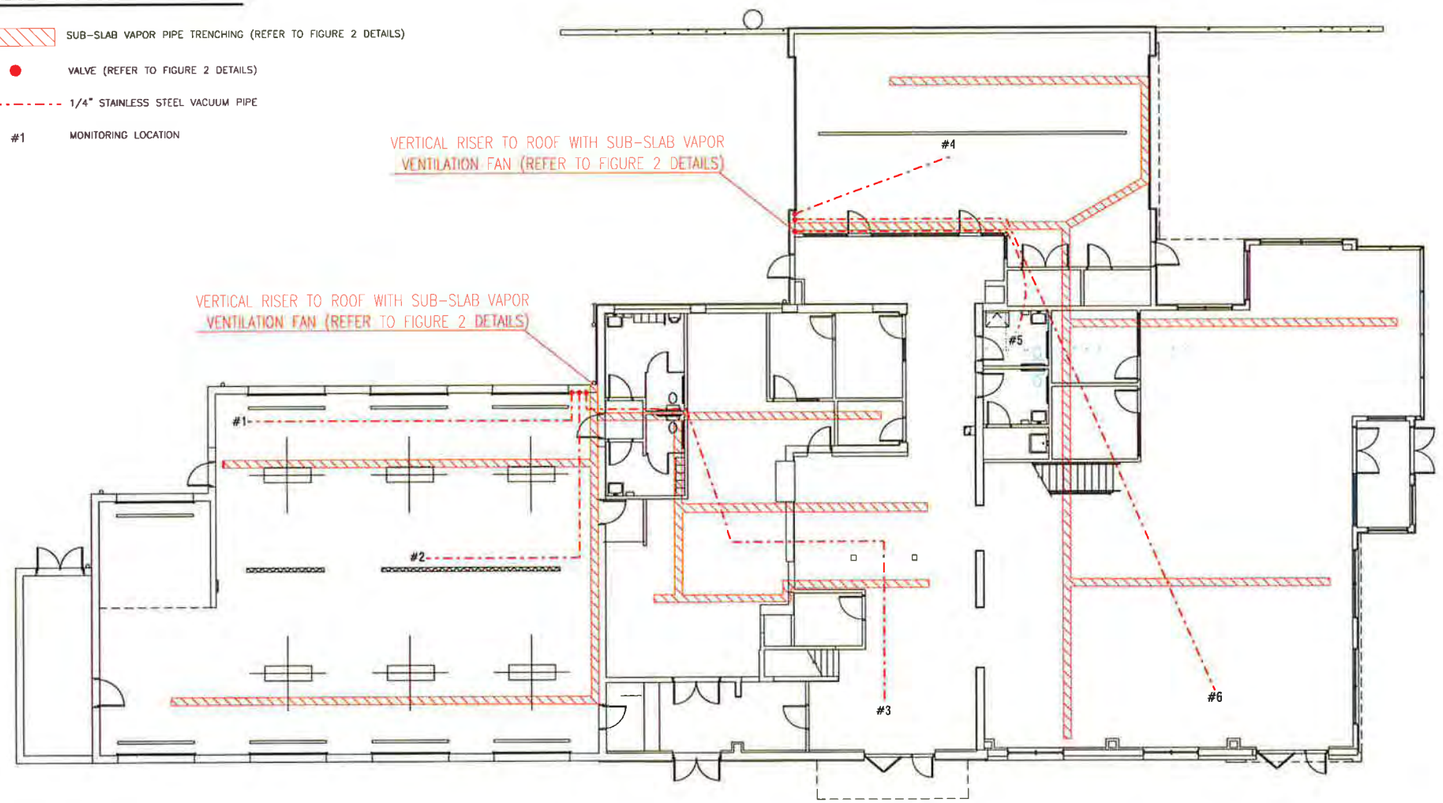
PROPOSED SUB-SLAB DEPRESSURIZATION SYSTEM (1)

SCALE: 1"=20'

NORTH

SYMBOL LEGEND

- SUB-SLAB VAPOR PIPE TRENCHING (REFER TO FIGURE 2 DETAILS)
- VALVE (REFER TO FIGURE 2 DETAILS)
- 1/4" STAINLESS STEEL VACUUM PIPE
- #1 MONITORING LOCATION



NOTE:
BASE DRAWING ADAPTED FROM TY LIN INTERNATIONAL DRAWING TITLED "SANITARY SEWER PLUMBING PLAN" DATED NOVEMBER 8, 2011.

STATE OF NEW YORK
DANIEL P. NOLL
No. 081996
LICENSED PROFESSIONAL ENGINEER

NO	REVISION	BY	DATE
-	-	-	-

LABELLA Associates, P.C.
300 STATE STREET
ROCHESTER, NY 14614
P: (585) 454-6110
F: (585) 454-3066
www.labellapc.com

PROJECT/CLIENT
3875 West Henrietta Road
Henrietta, New York
RJ Dorschel Corp.

DRAWING TITLE
AS-BUILT PLAN FOR SUB-SLAB DEPRESSURIZATION SYSTEM

ISSUED FOR:

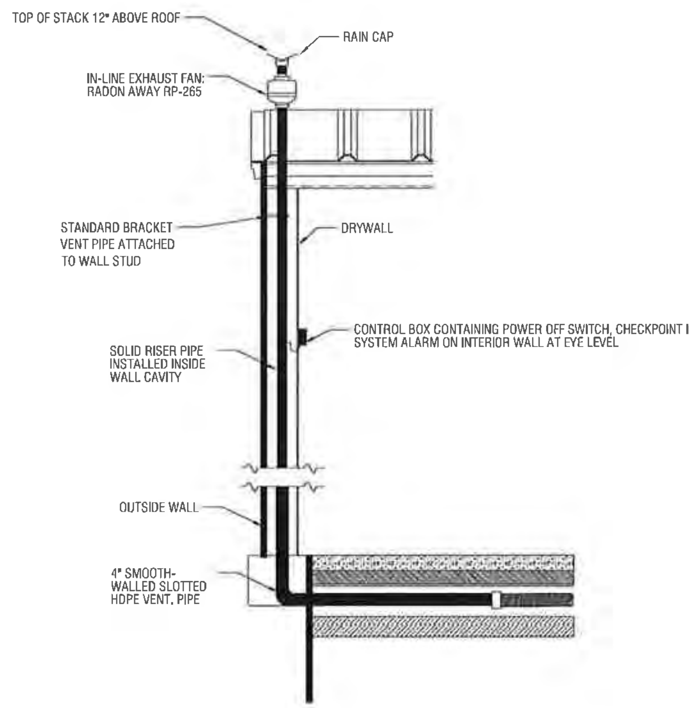
DATE: MAR 2013

SCALE: NO SCALE
DRAWN BY: HMS/RON
REVIEWED BY: DPN
REVIEWED BY: ###

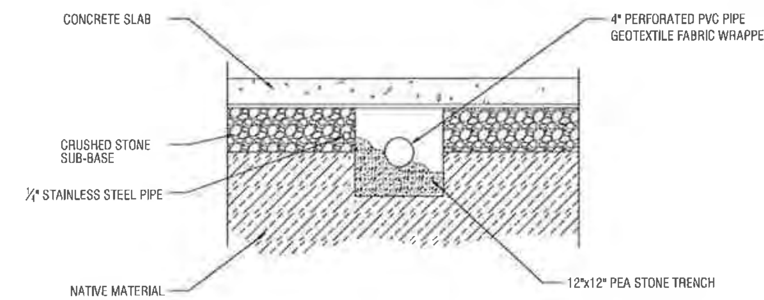
PROJECT/DRAWING NUMBER
209395

FIG 1

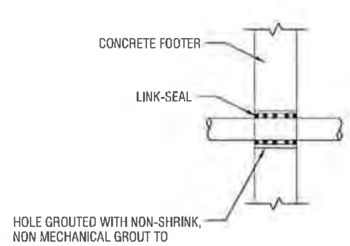
J:\RJ Dorschel Corp\395\Drawings\PRR 2012\FIG.2013.03.07 SSDSplan.dgn



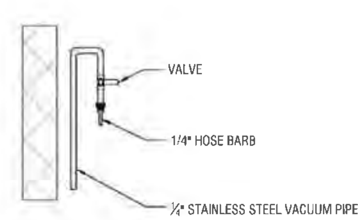
REAR ENDWALL



MATERIAL PROFILE



PROFILE AT PENETRATION



PROFILE AT GAUGE POINT

NOTES:

1. PERFORATED CAP INSTALLED AT EACH VAPOR COLLECTION PIPE TERMINATION.

2 HEADER PIPE SLOPED UP 1/4-INCH PER FOOT FROM CONNECTION WITH VAPOR COLLECTION PIPING

3. ALL SUB-SLAB VAPOR COLLECTION PIPING IS GEOTEXTILE-WRAPPED 4-INCH PERFORATED DUAL-WALLED CORRUGATED EXTERIOR SMOOTH INTERIOR HDPE

4. HEADER PIPING SHOWN IS 4-INCH SCHEDULE 40 PVC

5. PROFILE SEQUENCE MAY VARY BASED ON SPECIFIC LOCATIONS.

6. PEA STONE CONSISTS OF MATERIAL THAT WILL PASS THROUGH A 2-INCH SIEVE AND BE RETAINED BY A 1/4-INCH SIEVE

7. ALL PENETRATIONS AND GAPS SEALED WITH AN ELASTOMERIC JOINT SEALANT

8. RISER PIPING INSIDE WALL CAVITIES TO HAVE PRESSURE GAUGES AND ALARMS MOUNTED ON INTERIOR WALL IN A VISIBLE LOCATION

9. RADONAWAY EASY READ DYNAMETER U-TUBE MANOMETER MONITOR INSTALLED ON VACUUM SIDE OF FAN FOR PRESSURE GAUGE. RADONAWAY CHECKPOINT II AUDIBLE SYSTEM ALARM INSTALLED ON VACUUM SIDE OF FAN FOR ALARM. ALARM INSTALLED ON A SEPARATE CIRCUIT FROM THE FAN.

10 STAINLESS STEEL TUBING OPEN AT THE END WITH FILTER FABRIC OVER THE END AND FIXED WITH TAPE 6-INCHES FROM THE END

STATE OF NEW YORK
DANIEL P. NOLL
LICENSED PROFESSIONAL ENGINEER

LABELLA Associates, P.C.

3875 West Henrietta Road
Henrietta, New York

RJ Dorschel Corp.

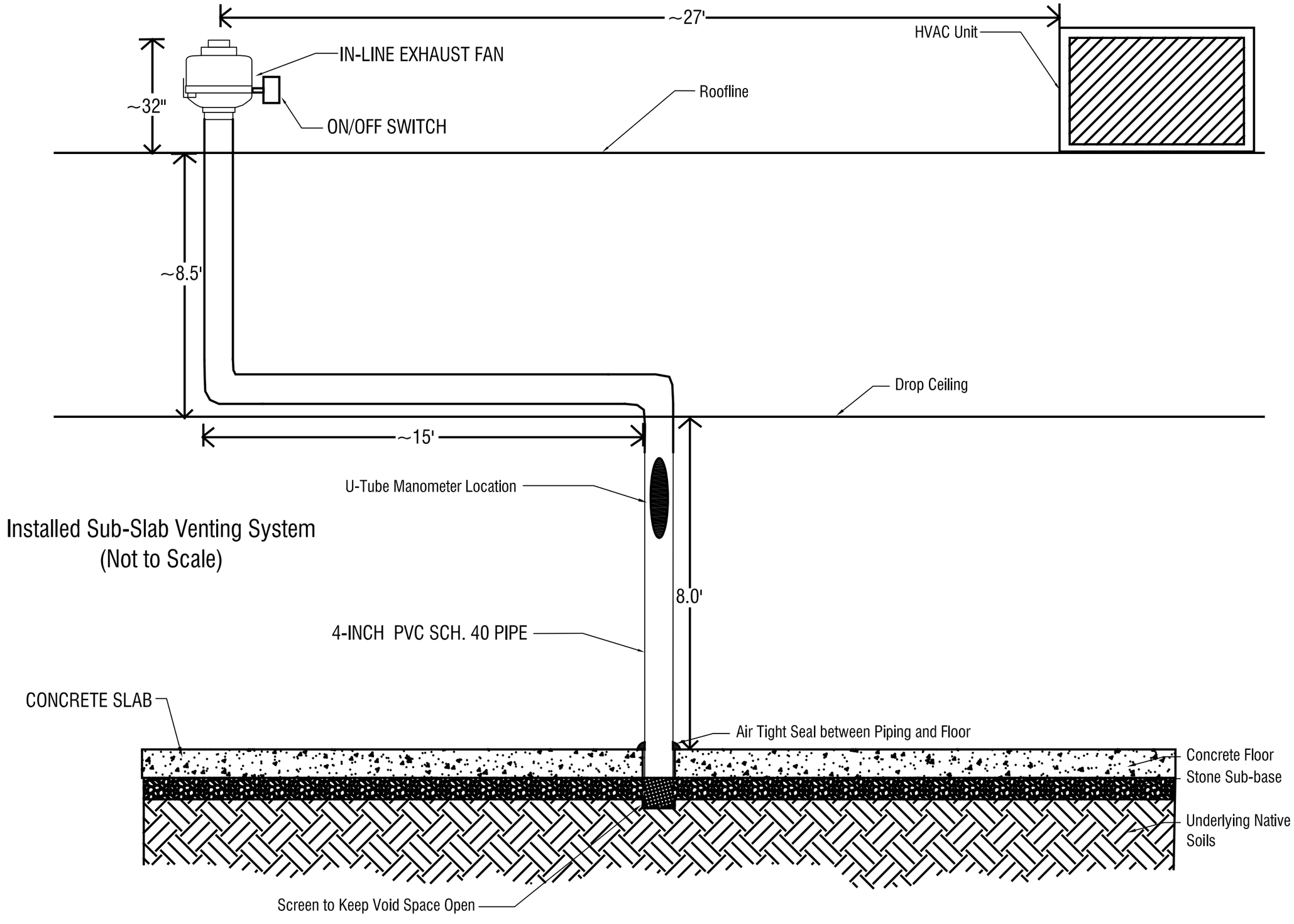
SUB-SLAB DEPRESSURIZATION SYSTEM AS-BUILT

NO SCALE

APRIL 2013

209395

FIG 2



Installed Sub-Slab Venting System
(Not to Scale)

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F: (585) 454-3066
www.labellapc.com

PROJECT/CLIENT
BROWNFIELD CLEANUP PROGRAM
SITE MANAGEMENT PLAN
BCP Site # C828134
3865 WEST HENRIETTA RD
ROCHESTER, NY 14623

DRAWING TITLE
SUBSLAB DEPRESSURIZATION DETAILS

DESIGNED BY: EPD
DRAWN BY: EPD
REVIEWED BY: DPN

ISSUED FOR
DRAFT

AUGUST 2009

PROJECT/DRAWING NUMBER
209395

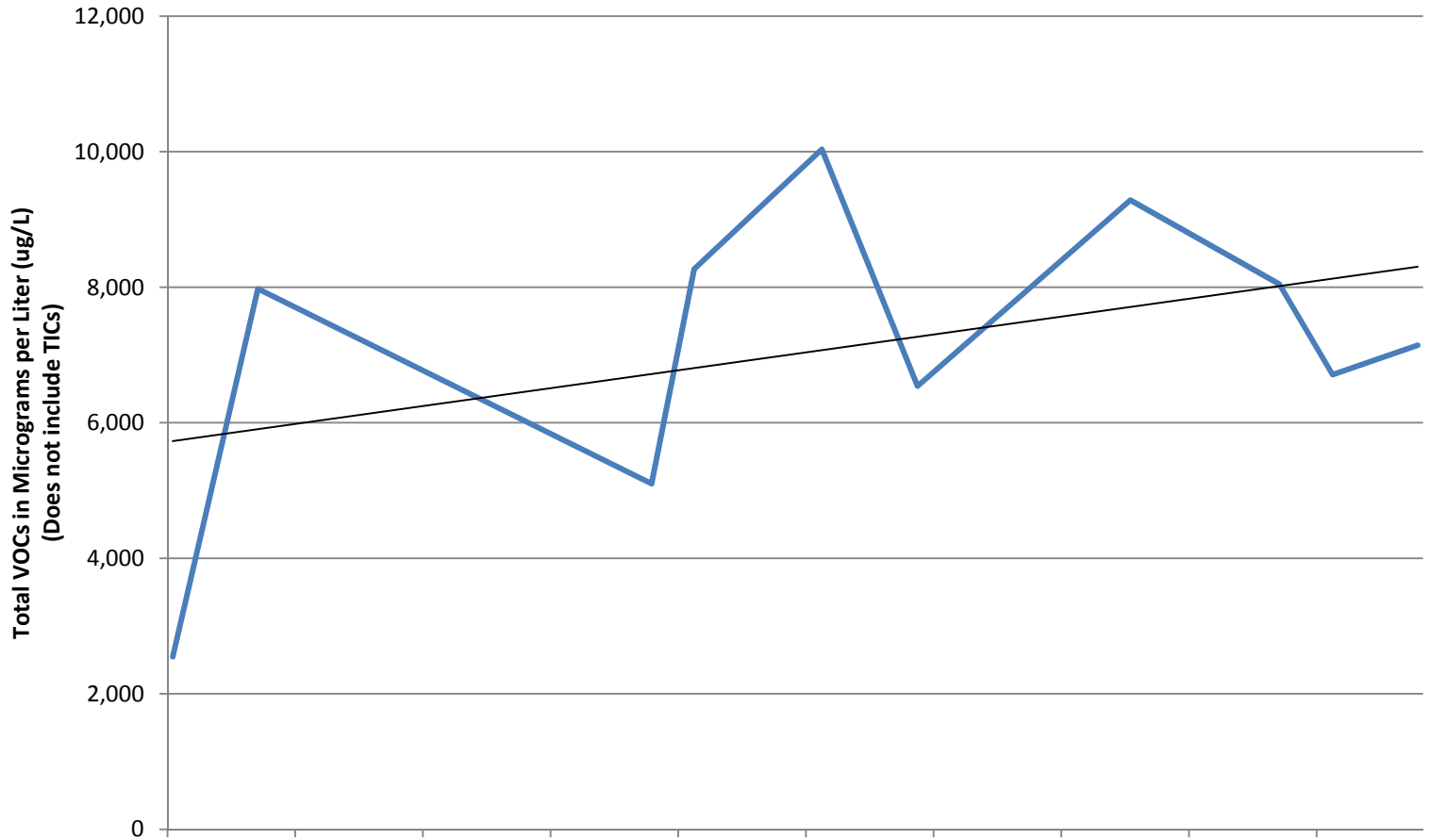
FIGURE 9

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX F

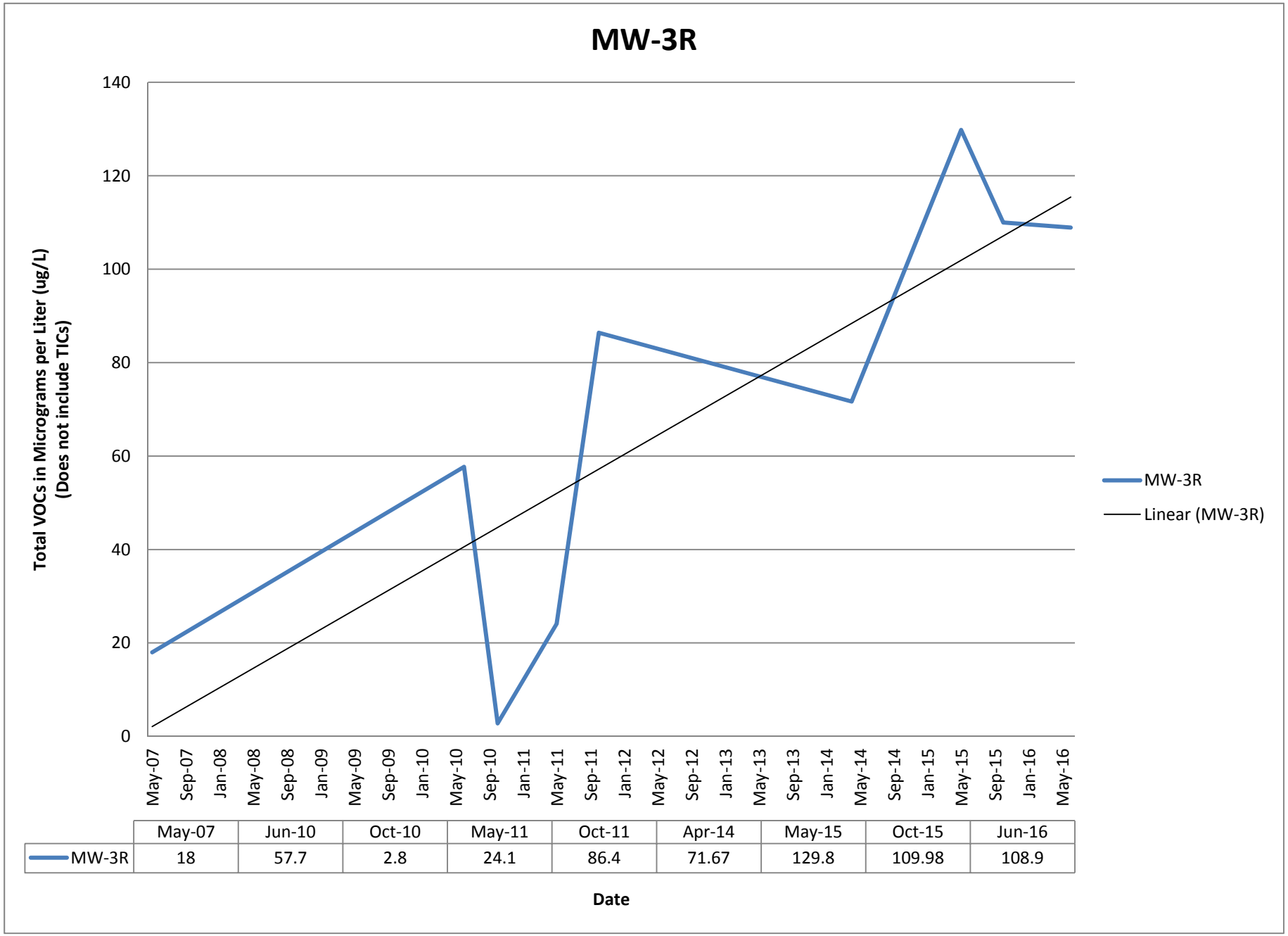
Graphs of Total VOCs Over Time

MW-7
(without outlier)



	Sep-06	May-07	Jun-10	Oct-10	Oct-11	Jul-12	Mar-14	May-15	Oct-15	Jun-16
MW-7	2,547	7,976	5,101	8,267	10,035	6,541	9,286	8,046	6,709	7,143.26

Date



	May-07	Jun-10	Oct-10	May-11	Oct-11	Apr-14	May-15	Oct-15	Jun-16
MW-3R	18	57.7	2.8	24.1	86.4	71.67	129.8	109.98	108.9

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX G

Institutional Controls/Engineering Controls Certification Form

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C828134

Site Name Former Steve Joy's Sunoco
3865 and 3875
Site Address: ~~3865~~ West Henrietta Road Zip Code: 14623
City/Town: Rochester
County: Monroe
Site Acreage: 2.5

Reporting Period: August 06, 2015 to August 06, 2016

	YES	NO
1. Is the information above correct?	☐	☒
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C828134 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
161.15-1-20.1	R.J. Dorschel Corp.	Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan Ground Water Use Restriction

The property may only be used for commercial or industrial use, provided that the long-term Engineering and Institutional Controls included in this SMP are employed.

- The property may not be used for a higher level of use (e.g., unrestricted, residential, etc.) use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- The existing sub-slab depressurization system at the 3865 West Henrietta Road property will be monitored and maintained in accordance with the SMP;
- The existing biocell will be monitored and maintained in accordance with the SMP;
- The use of the groundwater underlying the property is prohibited without treatment restricting the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by NYSDOH;
- Prior to occupancy of any newly constructed buildings at this site a soil vapor intrusion evaluation will be performed in accordance with the State's most recent guidance on evaluation soil vapor intrusion. Alternatively, a SSDS can be designed and installed/started prior to occupancy of any newly constructed building. The SSDS will be designed and installed in accordance with the State's most recent guidance on evaluating soil vapor intrusion and will require approval by NYSDEC and NYSDOH prior to installation;
- Vegetable gardens and farming on the Site are prohibited; and
- The Site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access the Site at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

161.19-1-9	R.J. Dorschel Corp.	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

The property may only be used for commercial or industrial use, provided that the long-term Engineering and Institutional Controls included in this SMP are employed.

- The property may not be used for a higher level of use (e.g., unrestricted, residential, etc.) use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- The existing biocell will be monitored and maintained in accordance with the SMP;
- The use of the groundwater underlying the property is prohibited without treatment restricting the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by NYSDOH;
- Prior to occupancy of any newly constructed buildings at this site a soil vapor intrusion evaluation will be performed in accordance with the State's most recent guidance on evaluation soil vapor intrusion. Alternatively, a SSDS can be designed and installed/started prior to occupancy of any newly constructed building. The SSDS will be designed and installed in accordance with the State's most recent guidance on evaluating soil vapor intrusion and will require approval by NYSDEC and NYSDOH prior to installation;
- A SSDS will be designed and installed/started prior to occupancy of the existing 3875 West Henrietta Road building. The SSDS will be designed and installed in accordance with the State's most recent guidance on evaluating soil vaor intrusion and will require approval by NYSDEC and NYSDOH prior to installation;

• Vegetable gardens and farming on the Site are prohibited; and
• The Site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access the Site at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
161.15-1-20.1	Vapor Mitigation
161.19-1-9	Vapor Mitigation

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C828134

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I ALBERT J BARONAS (print name) at 3817 WEST HENRIETTA RD (print business address) ROCHESTER NY

am certifying as OWNER'S REP. (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

[signature] BARONAS CORP. SEC'TY — 7.22.16

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification — Date

RJ DORSCHEL CORP.

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I DANIEL P. NOLL (print name) at LaBella Associates, DPC 300 STATE ST. ROCHESTER, NY (print business address)

am certifying as a Qualified Environmental Professional for the Owner (Owner or Remedial Party)

8/26/2016

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date