Speedy's Cleaners 3130 Monroe Avenue Town of Pittsford Rochester, New York 14618

Monroe County

NYSDEC Site Number: C828109

Corrective Measures Report Periodic Review Report

August 2019 Revised November 2019

Prepared for:

3130 Monroe Avenue Associates, LLC P.O. Box 499 Pittsford, New York 14534

Prepared by:



Rochester, New York 14618

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1.0 Introduction

The subject site is the former Speedy's Cleaners located at 3130 Monroe Avenue in the Town of Pittsford, New York (the "Site"). 3130 Monroe Avenue Associates, LLC (MAA) entered into the Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) to develop and implement a remedial program at the Site on October 14, 2004. After completing the remedial program, NYSDEC issued a Certificate of Completion (COC) on December 31, 2012. MAA filed an Easement, and a Site Management Plan (SMP), was developed. The requirements of the SMP are incorporated into the Easement. The SMP, approved by the NYSDEC on December 31, 2012, requires MAA to manage and maintain institutional and engineering controls which includes annual sampling of indoor air and groundwater, and the submission of an annual Periodic Review Report (PRR) certifying that all institutional and engineering controls remain in place, are performing properly, and continue to be effective. MAA violated the SMP, Easement, and BCA by failing to submit a PRR for the reporting periods from December 2012 to January 2017.

Ravi Engineering & Land Surveying, P.C. (RE&LS) met NYSDEC at the Site in March 2017 to review the present day Site conditions and determine what measures will be required to bring the Site into BCA compliance. The following BCA violations were noted:

- Indoor air samples collected by RE&LS on January 7, 2016 were found to contain concentrations of perchloroethylene (PCE), also known as tetrachloroethene, in exceedance of the NYSDOH September 2013 *New Ambient Air Guidance for Tetrachloroethene* (NYSDOH 2013 guideline) of 30 µg/m³.
- BCA monitoring wells and bioremediation injection wells were found to be in varying states of disrepair.
- A former heating oil diesel tank cover, labeled "diesel" was apparently reused as a cover for an injection well after the tank was removed in March 1999, raising concerns that a buried tank is present or that the well could be mistaken for a diesel tank fill pipe.
- Minor cracks and potholes were observed in the site cover system (asphalt parking lot surface).

This Corrective Measures Report (CMR) documents the work performed to correct the above deficiencies and bring the Site into compliance with the BCA and SMP.

2.0 Work Plans and NYSDEC Approvals

RE&LS submitted the following work plans for work completed relative to the corrective measures performed at the Site:

- 1. The October 2017 *Corrective Measures Work Plan (CMWP)* outlines the work necessary to bring the Site into compliance with the BCA.
- 2. The SSDS Enhancement Work Plan, submitted to the NYSDEC in March 2018 and approved by the NYSDEC on June 8, 2018, provides the details of proposed modifications to the SSDS to improve indoor air conditions.
- 3. The *Interior Vapor Investigation Work Plan*, submitted to the NYSDEC in December 2018 and approved by the NYSDEC on December 19, 2018, provides the details of real-time indoor air sampling using a FROGG 4000 portable gas chromatograph to identify areas of the subject building that may require additional SSDS coverage, and any potential previously unidentified sources of contamination.
- 4. Per an email dated April 2, 2019 to the NYSDEC, RE&LS proposed the installation of an additional vacuum point to the SSDS to provide additional depressurization in the northwest building corner to address persistent PCE concentrations above NYSDOH guidelines. The NYSDEC approved of this additional vacuum point via email correspondence dated April 3, 2019.

3.0 SSDS Enhancements

The SSDS was installed in 2006 as a BCA Interim Remedial Measure (IRM) by Mitigation Tech (MT) to mitigate vapor intrusion issues, and modifications were made in 2006 and 2009 to improve the SSDS efficiency. Indoor air sampling indicated PCE was in compliance with the NYSDOH guidance value of 100 ug/m³ for PCE at that time; however, the NYSDOH lowered the ambient indoor air guideline for PCE to $30~\mu g/m³$ in 2013. Indoor air samples collected by RE&LS on January 7, 2016 were found to contain concentrations of PCE in exceedance of the September 2013 *New Ambient Air Guidance for Tetrachloroethene*.

The following timeline details the work performed to increase the efficiency and coverage of the SSDS in order to reduce concentrations of PCE in indoor air within the subject building:

1. The SSDS was inspected by MT on March 1, 2017. All components of the system were inspected for condition and proper operation and were found to be working properly and in acceptable condition. Simple adjustments to optimize the system performance were made. The system was tested for leaks; none were found. The Heat Recovery Ventilator (HRV) device filters were cleaned and the discharge points were inspected to verify that no air intakes have been located nearby. Sample pressure field extension testing was conducted; the system was determined to be maintaining a sufficient vacuum beneath the slab. The system was determined to be operating according to expectations and specifications. A length of PVC pipe and fittings were added to the exhaust to elevate the discharge point to approximately 1.3 feet above the roof deck. MT inspected the SSDS and the Heat Recovery Ventilator (HRV) System that was retrofitted to the HVAC system. The HRV relies on the HVAC ducts to deliver fresh air to the building interior; it

was designed with the understanding that the HVAC fan was to be left in continuous operation. During the inspection, it was noted that the tenant had set the HVAC blower fan to "auto" instead of in the "on" position; therefore the fan had been functioning intermittently instead of continuously. This adjustment adversely affects the dilution rate of the indoor air, as outdoor air being introduced into the building through the HRV was not being distributed to the building interior when the fan the system was not in operation. Subsequent indoor air sampling conducted on March 21, 2017 indicated PCE concentrations continued to be present in exceedance of the NYSDOH 2013 guideline.

- 2. The system was modified by MT in October 2017 for continuous operation. Indoor air samples conducted on December 5, 2017 indicated that the PCE concentration continued to be in exceedance of the NYSDOH 2013 guideline.
- 3. A series of sub-slab differential pressure measurements was performed by MT on March 9, 2018 to determine the SSDS coverage and efficiency. The peripheral area (south corner, north corner, and west interior corners) were determined to be lacking in depressurization. Based on these measurements, the SSDS Enhancement Work Plan was prepared by RE&LS, and executed on July 2 & 3, 2018.

Prior to making modifications to the system, MT performed another round of differential pressure testing throughout both tenant spaces to establish baseline differential levels (Figure 1). Once established, the following enhancements were performed:

o Enhancement 1

The main system was split into two separate systems, and a fan, a manometer, and an alarm were added so that each system is equipped with these dedicated features. MT replaced the existing blower with (2) 120 volt, 302 watt high capacity Festa Force fan with 4-inch diameter inlets; separate fans were installed in the east and west tenant spaces. According to the manufacturer's specifications, this model fan can produce vacuum of up to five (5) inches of water column (WCI) and airflow of up to 240 cubic feet per minute (CFM).

o Enhancement 2

MT upgraded the exterior pipe to a 4-inch diameter to the first interior "T" joint in the southeast tenant space. MT determined that since the fan in the northwest tenant space was already at capacity, an increase in the diameter of the pipe would have little or no effect on this system.

o Enhancement 3

The work plan called for an upgrade to the northwest space interior end line to a 3-inch diameter pipe. An additional suction point was also to be installed to the right of the entrance of the north tenant space. However, MT stated that by splitting the

system into two, the power of the system was effectively increased. In place of additional suction points and increased diameter piping, MT was able to modulate the system by partially closing a valve installed in the suction point piping which effectively equalized the system by reducing the pressure differential in the vicinity of the suction points, increasing the pressure differential near the terminus of the system as demonstrated by the increase in the pressure differential in test points (TPs) 6 and 7 (TP-6 and TP-7).

o Enhancement 4

MT added a suction point in the deficient area near the south corner of the building with an exposed pipe from the floor to the drop ceiling.

o Enhancement 5

MT added an additional suction point and Radon Away RP-265 fan with 4" PVC inlets near the northeast corner of the building. According to the manufacturer's specifications, this model fan can produce vacuum of up to two (2) inches of water column (WCI) and airflow of up to 375 cubic feet per minute (CFM).

SSDS Enhancement Results and Confirmatory Sampling

A comparison of the pressure differential testing done before and after the system upgrades indicates that the pressure differential generally increased after the upgrades were completed. Specifically, of the four areas previously identified as having differential deficiencies, the differential increased in three of these locations (TP-1, TP-4, and TP-7). The fourth location (TP-8) was unchanged; however, this area had a relatively high differential prior to the upgrades (Table 1).

Table 1: Pressure Differentials Before and After SSDS Enhancements

Location	Location ID	Pressure Differential Prior to Enhancements	Pressure Differential after System Split	Differential Pressure After Enhancements
East corner of building	TP-1*	0.000	-0.005	NA
Southeast side of building	TP-2	-0.174	NA	NA
Southeast side of building	TP-3	-0.009	-0.014	NA
South corner of building	TP-4*	0.000	-0.001	-0.012
Center of building	TP-5	-0.058	-0.082	NA
Southwest end of building	TP-6	-0.004	NA	-0.011
West corner of building	TP-7*	-0.006	NA	0.010
North corner of building	TP-8*	-0.020	NA	-0.020

NA – Not applicable

Units are in inH2O

^{*}Indicates an area where pressure differential deficiencies were previously identified.

Confirmatory indoor air samples collected on September 9, 2018 indicated that PCE concentrations were below the NYSDOH guideline; however, as this work was completed outside of the indoor "heating season," another round of sampling was performed in November 26, 2018 during the 2018-19 heating season. Sample results indicated that PCE concentrations continued to be above the NYSDOH guideline.

4. RE&LS and Mitigation Tech performed an Interior Vapor Investigation on April 8, 2019 using a "Frogg 4000" portable gas chromatograph (GC) designed for real-time portable analysis of volatile organic compounds (VOCs) in water, soil, and air. Samples were collected from indoor air, sub-slab air, the SSDS exhaust stream, and from the ceiling plenum. Sub-slab vacuum differential pressure was measured and recorded simultaneously.

The investigation results indicated an area in the northeast portion of the building that had higher PCE concentrations than the rest of the building, as well as low sub-slab differential pressures. These data indicated that the installation of a vacuum point in this area was warranted. The additional vacuum point (Enhancement 5) was installed on April 8, 2019 (Figure 1). Confirmatory indoor air samples collected on April 15, 2019 indicated that PCE concentrations were below the NYSDOH 2013 guideline.

4.0 Indoor Air Sampling Methodology and Results

RE&LS performed annual indoor air sampling on January 7, 2016, March 21, 2017, December 5, 2017, September 8, 2018, November 26, 2018 and April 15, 2019 to confirm the performance of the SSDS and evaluate indoor air conditions.

Samples were collected with Summa canisters, over an eight-hour period, during business hours, and analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (EPA) Method Toxic Organics (TO)-15 with Category B deliverables. Except for one sampling event (August 9, 2018), samples were collected during the indoor "heating season" when doors and windows are generally kept closed and heating systems are operating.

Indoor air samples collected in 2016, 2017, and 2018 indicate that PCE concentrations continued to be above the NYSDOH 2013 guideline of 30 μ g/m³ for PCE despite upgrades to the SSDS; concentrations ranged from 21-160 μ g/m³.

Indoor air samples collected on April 15 to evaluate the performance of the April 8, 2019 SSDS modifications (see item #5 in Section 3.0), as well as to satisfy the annual indoor air requirement per the SMP, indicate that PCE concentrations are below NYSDOH 2013 guidelines (Table 1).

Table 2: Historical Comparison of TCE & PCE Detections in Indoor Air

Sample Date	Sample ID	TCE	PCE
NYSDOH Ambier	ıt Indoor Guidelines	2	30
January 7, 2016	AS-S-20160107	0.7	38
January 7, 2010	AS-N-20160107	0.7	44
March 21, 2017	AS-1-20170321	0.54	31
March 21, 2017	AS-2-20170321	0.48	29
December 5,	AS-1-20171205	0.64	42
2017	AS-2-20171205	1.7	55
August 9, 2018	AS-1-20180809	0.48	21
August 9, 2016	AS-2-20180809	0.38	27
November 26,	AS-1-20181126	0.86	51
2018	AS-2-20181126	1.3	160
April 15, 2010	AS-1-20190415	0.38	8.5
April 15, 2019	AS-2-20190415	0.27	4.4

Units are in µg/m³

Bolded value indicates a concentration of the analyte above the associated NYSDOH guideline.

Indoor air sampling field logs are provided in Appendix A. The indoor air laboratory data are provided in Appendix B.

5.0 Annual Groundwater Sampling Methodology and Results

Groundwater sampling was performed in conformance with the SMP on March 2, 2017 and October 1, 2018. Samples were collected from four existing groundwater monitoring wells using low-flow methodologies. Water quality indicators were monitored and were considered stabilized after three consecutive readings were achieved for the following indicators:

- o pH (+/- 0.1 unit)
- o specific conductance (+/ -3%)
- o dissolved oxygen (+/- 10%)
- o redox (+/- 10 mV)
- o temperature (+/- 10%)
- o turbidity (+/- 10%).

Samples were submitted to an Environmental Laboratory Approval Program (ELAP)-certified laboratory for Target Compound List (TCL) volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260 by Analytical Services Protocols (ASP) with Category B deliverables.

Four VOC compounds were detected in one or more of the samples. Samples were compared to 6 NYCRR Part 703 groundwater quality standards. All concentrations were found to be below the associated standard or guideline (Table 2).

Table 3: Detected VOCs in Groundwater

Well ID	HLA- MW-2 (2017)	HLA- MW-2- (2018)	MW-2 (2017)	MW-2- (2018)	MW-3 (2017)	MW-3- (2018)	MW-4 (2017)	MW-4- (2018)	6 NYCRR Part 703 Water
Sample Date	3/2/17	10/1/18	3/2/17	10/1/18	3/2/17	10/1/18	3/2/17	10/1/18	Quality
Analyte									Standard
Acetone	<10.0	<10.0	6.60 J	7.98 J	<10.0	<10.0	<10.0	<10.0	50
cis-1,1-Dichloroethene	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	1.19 J	< 2.00	< 2.00	5
m,p-Xylene	< 2.00	< 2.00	1.94 J	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	5
o-Xylene	< 2.00	< 2.00	1.99 J	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	5
Tetrachloroethene	< 2.00	< 2.00	< 2.00	< 2.00	1.92 J	< 2.00	< 2.00	< 2.00	5

Units are in µg/L

Bolded values indicate the analyte was detected by laboratory analysis

The groundwater data are provided in Appendix C. Low flow sampling and purging field logs are provided in Appendix D.

6.0 Data Usability Summary Reports

Laboratory analyses were conducted in conformance with NYS Department of Health (DOH) Analytical Services Protocol (ASP) methodology with a Category B deliverable. Environmental Data Usability (EDU) conducted the third party validation and prepared Data Usability Summary Reports (DUSR).

Indoor Air DUSRs

o SDG C1712024

All results (100%) for three indoor air samples collected on December 5, 2017 are considered usable. Results for hexachlorobutadiene were flagged with a "UJ" as estimated.

o SDG C1703065

All results for three indoor air samples collected on March 2, 2017 are considered usable. Detected results for Freon 11 are flagged with a "J" as estimated.

o SDG C1904047

All results for three indoor air samples collected on April 15, 2019 are considered usable. Non-detected results for 1,4-Dioxane are flagged with a "UJ" as estimated. All detected results for isopropyl alcohol are flagged with a "JN"; compounds are tentatively identified and results are estimated

< Analyte not detected by laboratory analysis

Groundwater DUSRs

o SDG 0791-01

The analyte 1,4-Dioxane collected on March 3, 2017 was rejected in all groundwater samples. While some analytes were flagged with a "J" as estimated, all other results are considered usable.

o SDG 184515

For the four groundwater samples collected on October 1, 2018, all results (100 %) are considered usable and none were flagged as estimated.

DUSRs are provided in Appendix E.

7.0 Well Repairs and Decommissioning

BCA monitoring wells and bioremediation injection were found to be in varying states of disrepair.

Piedmont Equipment, Inc. made minor repairs to four monitoring wells on October 29, 2018.

- HLA-MW-2 received a new casing and concrete pad
- MW-2 received a new casing and concrete pad
- MW-3 received a new concrete pad
- MW-4 received a new concrete pad.

In addition to the well repairs, the following monitor wells and injection wells were decommissioned in December 2018 in conformance with DER-10 protocols and with NYSDEC oversight:

- Injection Well-1
- Injection Well-2
- PA-1
- HLA-MW-1

The wells were grouted in place and then the exposed riser was covered with asphalt to match the existing surface material. The PA-1 "diesel" cover was removed from the Site.

The decommissioned and repaired well locations are shown on Figure 2.

8.0 Surface Cover Reparations

General maintenance of the parking lot surface was performed by the Site owner's contractor in the summer of 2017. Surface cracks were sealed with tar, and a few minor potholes were patched with asphalt.

9.0 Waste Generation and Disposal

Approximately 25 gallons of groundwater was generated during the 2017 groundwater sampling event. The water was disposed of at Canandaigua Waste Water Treatment Facility on 6/15/17.

Approximately 25 gallons of groundwater was generated in December 2018 during purging, sampling and well decommissioning activities. The water was drummed and sampled for disposal. Removal is pending.

During the installation of the new monitor well casings, approximately one 55-gallon drum of parking lot surface material, sub-base, and surficial soils were disturbed. The materials were drummed and sampled for disposal, and removed from the Site by Nature's Way Environmental Consultants & Contractors, Inc. on January 11, 2019.

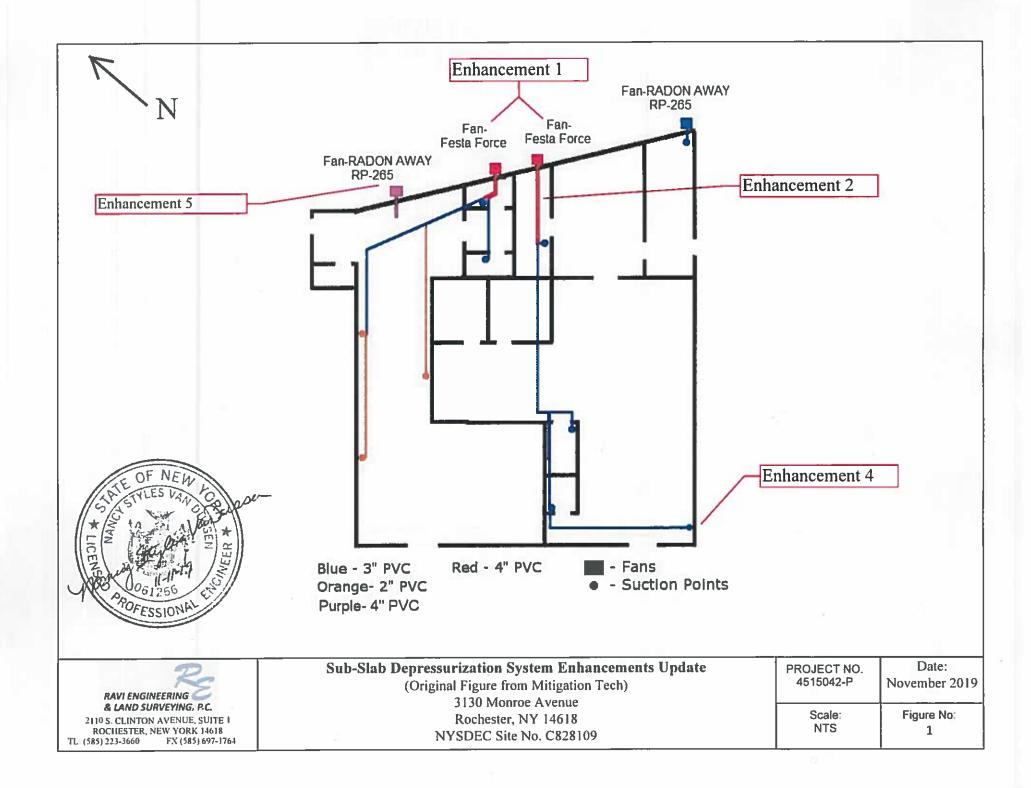
Waste disposal documentation is provided in Appendix F.

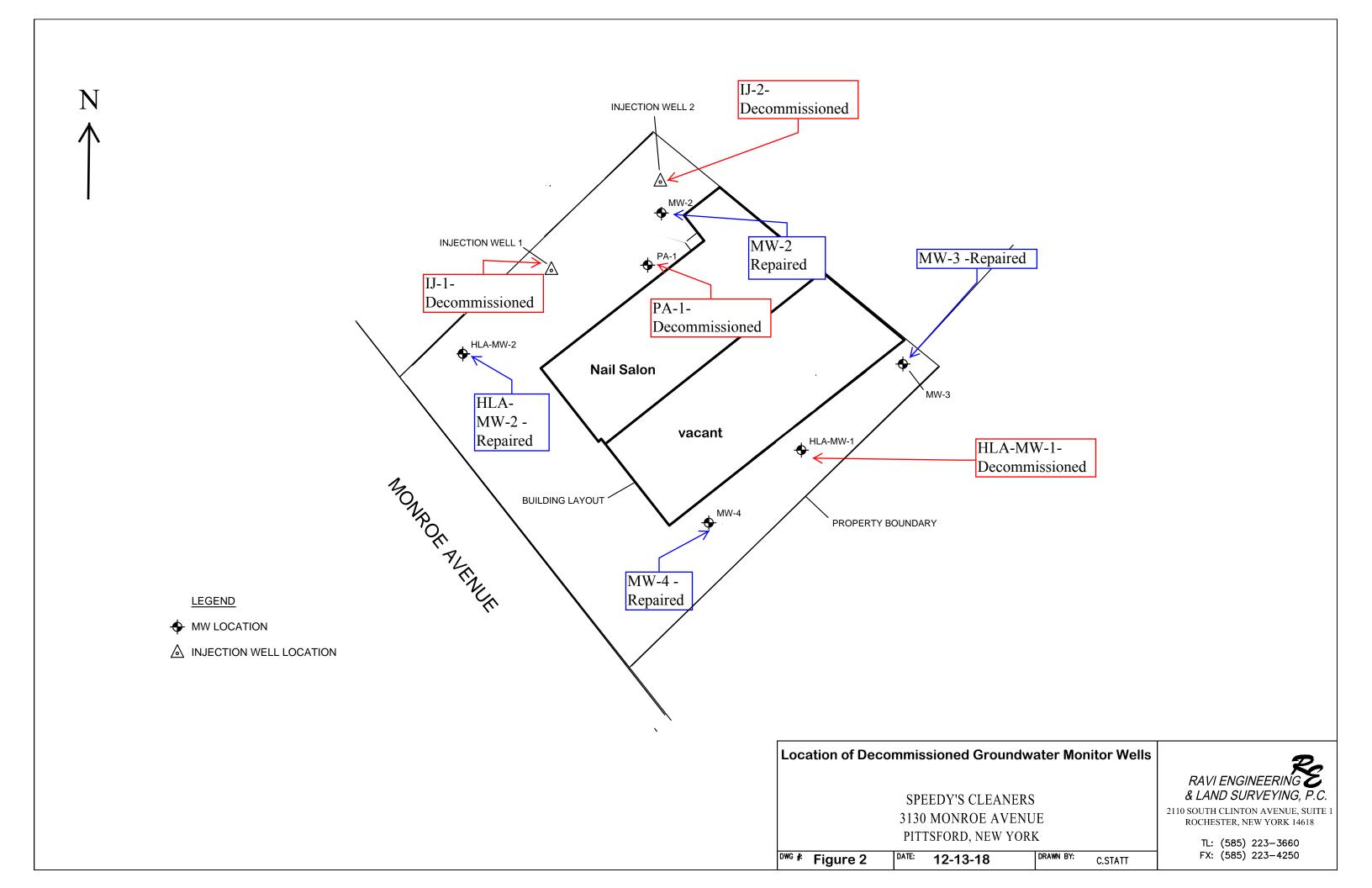
10.0 CMWP Compliance

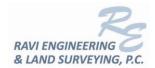
The current status of the Site is as follows:

- o Indoor air concentrations of PCE are below the below the NYSDOH 2013 New Ambient Air Guideline for Tetrachloroethene.
- o All groundwater analytes are below 6 NYCRR Part 703 groundwater standards.
- O All but four of the existing monitoring wells were decommissioned; the remaining four monitoring wells were repaired as needed.
- o The fuel tank cover labeled "diesel" was removed from the Site.
- o Minor cracks and potholes in the asphalt surface cover (ie: cover system) have been patched.

The site is in compliance with the BCA, and as such, no further investigations or modifications are warranted. The Institutional Control/Engineering Control (IC/EC) certification included as Arrgpfkz'G documents that the IC/EC controls remain in place and are functioning as designed. Annual groundwater and indoor air sampling will continue to be performed in compliance with the SMP. A Periodic Review Report (PRR) will be prepared annually to document future compliance with the BCA and SMP.







APPENDIX A Indoor Air Sampling Field Log

	Indoor Air	Sampling Field Log		
Project: 3130 Monroe Avenue	PN: 45-15-042-P	Pha	ase: SSDS Upgrade Inspecti	on
Sample ID	AS-1-20190415	AS-2-20190415	OS-1-20190415	Notes
Location	Vacant Space	Nail Salon	Outdoor Sample	
Date/Time Start	4-15-19 10:10 am	4-15-19 10:20 am	4-15-19 11:00 am	
Date/Time Stop	4-15-19 6:10 pm	4-15-19 6:20 pm	4-15-19 7:00 pm	
Confirm SSDS Fan Running at Start (√)	√	√	NA	
Confirm SSDS Fan Running at Stop (√)	√	√	NA	
Photo of Manometer at Start (Y/N)	Y	Υ	NA	Vacuum readings: All greater than -2 inH2O
Photo of Manometer at Stop (Y/N)	Y	Y	NA	Vacuum readings: All greater than -2 inH2O
Outdoor Air Temperature at Start	39	39	39	
Outdoor Air Temperature at Stop	41	41	41	
Weather at Start	Light rain	Light rain	Light rain	
Weather at Stop	Cloudy	Cloudy	Cloudy	
Canister #	243	539	458	
Regulator #	337	258	382	Regulator 382 started at 35 Hg and ended at 6 Hg
Made copy of COC (Y/N)	Υ	Υ	Υ	
Windows/Doors Closed at Start (Y/N)	Υ	Υ	NA	
Windows/Doors Closed at Stop (Y/N)	Υ	Υ	NA	
Furnace Cycling On at Start (Y/N)	Υ	Υ	NA	
Furnace Cycling On at Stop (Y/N)	Υ	Υ	NA	



Appendix B Indoor Air Laboratory Data

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-1-20170321

 Lab Order:
 C1703065
 Tag Number:
 189,378

 Project:
 3130 Monroe
 Collection Date:
 3/21/2017

 Lab ID:
 C1703065-001A
 Matrix:
 AIR

Analyses	Result	**Limit Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82	ug/m3	1	3/23/2017 11:26:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/m3	1	3/23/2017 11:26:00 PM
1,1,2-Trichloroethane	< 0.82	0.82	ug/m3	1	3/23/2017 11:26:00 PM
1,1-Dichloroethane	< 0.61	0.61	ug/m3	1	3/23/2017 11:26:00 PM
1,1-Dichloroethene	< 0.59	0.59	ug/m3	1	3/23/2017 11:26:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1	ug/m3	1	3/23/2017 11:26:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74	ug/m3	1	3/23/2017 11:26:00 PM
1,2-Dibromoethane	< 1.2	1.2	ug/m3	1	3/23/2017 11:26:00 PM
1,2-Dichlorobenzene	< 0.90	0.90	ug/m3	1	3/23/2017 11:26:00 PM
1,2-Dichloroethane	< 0.61	0.61	ug/m3	1	3/23/2017 11:26:00 PM
1,2-Dichloropropane	< 0.69	0.69	ug/m3	1	3/23/2017 11:26:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74	ug/m3	1	3/23/2017 11:26:00 PM
1,3-butadiene	< 0.33	0.33	ug/m3	1	3/23/2017 11:26:00 PM
1,3-Dichlorobenzene	< 0.90	0.90	ug/m3	1	3/23/2017 11:26:00 PM
1,4-Dichlorobenzene	< 0.90	0.90	ug/m3	1	3/23/2017 11:26:00 PM
1,4-Dioxane	< 1.1	1.1	ug/m3	1	3/23/2017 11:26:00 PM
2,2,4-trimethylpentane	< 0.70	0.70	ug/m3	1	3/23/2017 11:26:00 PM
4-ethyltoluene	< 0.74	0.74	ug/m3	1	3/23/2017 11:26:00 PM
Acetone	1900	190	ug/m3	270	3/24/2017 10:03:00 PM
Allyl chloride	< 0.47	0.47	ug/m3	1	3/23/2017 11:26:00 PM
Benzene	0.93	0.48	ug/m3	1	3/23/2017 11:26:00 PM
Benzyl chloride	< 0.86	0.86	ug/m3	1	3/23/2017 11:26:00 PM
Bromodichloromethane	< 1.0	1.0	ug/m3	1	3/23/2017 11:26:00 PM
Bromoform	< 1.6	1.6	ug/m3	1	3/23/2017 11:26:00 PM
Bromomethane	< 0.58	0.58	ug/m3	1	3/23/2017 11:26:00 PM
Carbon disulfide	< 0.47	0.47	ug/m3	1	3/23/2017 11:26:00 PM
Carbon tetrachloride	0.31	0.25	ug/m3	1	3/23/2017 11:26:00 PM
Chlorobenzene	< 0.69	0.69	ug/m3	1	3/23/2017 11:26:00 PM
Chloroethane	< 0.40	0.40	ug/m3	1	3/23/2017 11:26:00 PM
Chloroform	< 0.73	0.73	ug/m3	1	3/23/2017 11:26:00 PM
Chloromethane	1.3	0.31	ug/m3	1	3/23/2017 11:26:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59	ug/m3	1	3/23/2017 11:26:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68	ug/m3	1	3/23/2017 11:26:00 PM
Cyclohexane	< 0.52	0.52	ug/m3	1	3/23/2017 11:26:00 PM
Dibromochloromethane	< 1.3	1.3	ug/m3	1	3/23/2017 11:26:00 PM
Ethyl acetate	49	14	ug/m3	27	3/24/2017 9:25:00 PM
Ethylbenzene	< 0.65	0.65	ug/m3	1	3/23/2017 11:26:00 PM
Freon 11	1.6	0.84	ug/m3	1	3/23/2017 11:26:00 PM
Freon 113	< 1.1	1.1	ug/m3	1	3/23/2017 11:26:00 PM
Freon 114	< 1.0	1.0	ug/m3	1	3/23/2017 11:26:00 PM

Qualifiers:

- ** Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected

- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-1-20170321

 Lab Order:
 C1703065
 Tag Number:
 189,378

 Project:
 3130 Monroe
 Collection Date:
 3/21/2017

 Lab ID:
 C1703065-001A
 Matrix:
 AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO)-15			Analyst: RJP
Freon 12	2.0	0.74		ug/m3	1	3/23/2017 11:26:00 PM
Heptane	< 0.61	0.61		ug/m3	1	3/23/2017 11:26:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/23/2017 11:26:00 PM
Hexane	< 0.53	0.53		ug/m3	1	3/23/2017 11:26:00 PM
Isopropyl alcohol	270	98		ug/m3	270	3/24/2017 10:03:00 PM
m&p-Xylene	0.61	1.3	J	ug/m3	1	3/23/2017 11:26:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/23/2017 11:26:00 PM
Methyl Ethyl Ketone	15	24	J	ug/m3	27	3/24/2017 9:25:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/23/2017 11:26:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	3/23/2017 11:26:00 PM
Methylene chloride	0.80	0.52		ug/m3	1	3/23/2017 11:26:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	3/23/2017 11:26:00 PM
Propylene	< 0.26	0.26		ug/m3	1	3/23/2017 11:26:00 PM
Styrene	< 0.64	0.64		ug/m3	1	3/23/2017 11:26:00 PM
Tetrachloroethylene	31	27		ug/m3	27	3/24/2017 9:25:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	3/23/2017 11:26:00 PM
Toluene	3.5	0.57		ug/m3	1	3/23/2017 11:26:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/23/2017 11:26:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/23/2017 11:26:00 PM
Trichloroethene	0.54	0.21		ug/m3	1	3/23/2017 11:26:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	3/23/2017 11:26:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	3/23/2017 11:26:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/23/2017 11:26:00 PM

Qualifiers: ** Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected

Date: 28-Mar-17

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-2-20170321

 Lab Order:
 C1703065
 Tag Number:
 333,109

 Project:
 3130 Monroe
 Collection Date:
 3/21/2017

 Lab ID:
 C1703065-002A
 Matrix:
 AIR

Analyses	Result	**Limit	Qual Units	S DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-	-15		Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82	ug/m3	3 1	3/24/2017 12:08:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/m3	3 1	3/24/2017 12:08:00 AM
1,1,2-Trichloroethane	< 0.82	0.82	ug/m3	3 1	3/24/2017 12:08:00 AM
1,1-Dichloroethane	< 0.61	0.61	ug/m3	3 1	3/24/2017 12:08:00 AM
1,1-Dichloroethene	< 0.59	0.59	ug/m3	3 1	3/24/2017 12:08:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1	ug/m3	3 1	3/24/2017 12:08:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74	ug/m3	3 1	3/24/2017 12:08:00 AM
1,2-Dibromoethane	< 1.2	1.2	ug/m3	3 1	3/24/2017 12:08:00 AM
1,2-Dichlorobenzene	< 0.90	0.90	ug/m3	3 1	3/24/2017 12:08:00 AM
1,2-Dichloroethane	< 0.61	0.61	ug/m3	3 1	3/24/2017 12:08:00 AM
1,2-Dichloropropane	< 0.69	0.69	ug/m3	3 1	3/24/2017 12:08:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74	ug/m3	3 1	3/24/2017 12:08:00 AM
1,3-butadiene	< 0.33	0.33	ug/m3	3 1	3/24/2017 12:08:00 AM
1,3-Dichlorobenzene	< 0.90	0.90	ug/m3	3 1	3/24/2017 12:08:00 AM
1,4-Dichlorobenzene	< 0.90	0.90	ug/m3	3 1	3/24/2017 12:08:00 AM
1,4-Dioxane	< 1.1	1.1	ug/m3	3 1	3/24/2017 12:08:00 AM
2,2,4-trimethylpentane	< 0.70	0.70	ug/m3	3 1	3/24/2017 12:08:00 AM
4-ethyltoluene	< 0.74	0.74	ug/m3	3 1	3/24/2017 12:08:00 AM
Acetone	36000	5200	ug/m3	7290	3/24/2017 11:21:00 PM
Allyl chloride	< 0.47	0.47	ug/m3	3 1	3/24/2017 12:08:00 AM
Benzene	1.5	0.48	ug/m3	3 1	3/24/2017 12:08:00 AM
Benzyl chloride	< 0.86	0.86	ug/m3	3 1	3/24/2017 12:08:00 AM
Bromodichloromethane	< 1.0	1.0	ug/m3	3 1	3/24/2017 12:08:00 AM
Bromoform	< 1.6	1.6	ug/m3	3 1	3/24/2017 12:08:00 AM
Bromomethane	< 0.58	0.58	ug/m3	3 1	3/24/2017 12:08:00 AM
Carbon disulfide	< 0.47	0.47	ug/m3	3 1	3/24/2017 12:08:00 AM
Carbon tetrachloride	0.44	0.25	ug/m3	3 1	3/24/2017 12:08:00 AM
Chlorobenzene	< 0.69	0.69	ug/m3	3 1	3/24/2017 12:08:00 AM
Chloroethane	< 0.40	0.40	ug/m3	3 1	3/24/2017 12:08:00 AM
Chloroform	1.3	0.73	ug/m3	3 1	3/24/2017 12:08:00 AM
Chloromethane	1.9	0.31	ug/m3	3 1	3/24/2017 12:08:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59	ug/m3	3 1	3/24/2017 12:08:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68	ug/m3	3 1	3/24/2017 12:08:00 AM
Cyclohexane	< 0.52	0.52	ug/m3	3 1	3/24/2017 12:08:00 AM
Dibromochloromethane	< 1.3	1.3	ug/m3	3 1	3/24/2017 12:08:00 AM
Ethyl acetate	340	400	J ug/m3	729	3/24/2017 10:44:00 PM
Ethylbenzene	< 0.65	0.65	ug/m3	3 1	3/24/2017 12:08:00 AM
Freon 11	1.5	0.84	ug/m3	3 1	3/24/2017 12:08:00 AM
Freon 113	< 1.1	1.1	ug/m3	3 1	3/24/2017 12:08:00 AM
Freon 114	< 1.0	1.0	ug/m3	3 1	3/24/2017 12:08:00 AM

Qualifiers:

^{**} Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

[.] Results reported are not blank corrected

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-2-20170321

 Lab Order:
 C1703065
 Tag Number: 333,109

 Project:
 3130 Monroe
 Collection Date: 3/21/2017

 Lab ID:
 C1703065-002A
 Matrix: AIR

Analyses Result **Limit Qual Units DF **Date Analyzed** 1UG/M3 W/ 0.25UG/M3 CT-TCE-VC **TO-15** Analyst: RJP Freon 12 1.9 0.74 ug/m3 1 3/24/2017 12:08:00 AM Heptane < 0.61 0.61 ug/m3 1 3/24/2017 12:08:00 AM Hexachloro-1,3-butadiene ug/m3 1 3/24/2017 12:08:00 AM < 1.6 1.6 Hexane < 0.53 0.53 ug/m3 1 3/24/2017 12:08:00 AM Isopropyl alcohol 3200 270 ug/m3 729 3/24/2017 10:44:00 PM m&p-Xylene 0.82 1.3 ug/m3 3/24/2017 12:08:00 AM < 1.2 1.2 ug/m3 Methyl Butyl Ketone 1 3/24/2017 12:08:00 AM Methyl Ethyl Ketone 5.4 0.88 ug/m3 3/24/2017 12:08:00 AM 1 1 Methyl Isobutyl Ketone 1.6 1.2 ug/m3 3/24/2017 12:08:00 AM 0.54 ug/m3 Methyl tert-butyl ether < 0.54 1 3/24/2017 12:08:00 AM Methylene chloride 0.80 0.52 ug/m3 1 3/24/2017 12:08:00 AM o-Xylene < 0.65 0.65 ug/m3 1 3/24/2017 12:08:00 AM Propylene < 0.26 0.26 ug/m3 1 3/24/2017 12:08:00 AM Styrene < 0.64 0.64 ug/m3 3/24/2017 12:08:00 AM 1 Tetrachloroethylene 29 10 ug/m3 10 3/24/2017 2:04:00 PM < 0.44 Tetrahydrofuran 0.44 ug/m3 1 3/24/2017 12:08:00 AM Toluene 11 5.7 ug/m3 10 3/24/2017 2:04:00 PM trans-1,2-Dichloroethene < 0.59 0.59 ug/m3 3/24/2017 12:08:00 AM 1 trans-1,3-Dichloropropene < 0.68 0.68 ug/m3 3/24/2017 12:08:00 AM Trichloroethene 0.48 0.21 ug/m3 3/24/2017 12:08:00 AM Vinyl acetate < 0.53 0.53 ug/m3 3/24/2017 12:08:00 AM Vinyl Bromide < 0.66 0.66 ug/m3 1 3/24/2017 12:08:00 AM Vinyl chloride < 0.10 0.10 ug/m3 3/24/2017 12:08:00 AM

Ona	lifiers:	**
Oua	mners.	

- * Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected

- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: OS-1-20170321

 Lab Order:
 C1703065
 Tag Number: 479,155

 Project:
 3130 Monroe
 Collection Date: 3/21/2017

 Lab ID:
 C1703065-003A
 Matrix: AIR

Analyses	Result	**Limit Qu	al Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82	ug/m3	1	3/24/2017 12:49:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/m3	1	3/24/2017 12:49:00 AM
1,1,2-Trichloroethane	< 0.82	0.82	ug/m3	1	3/24/2017 12:49:00 AM
1,1-Dichloroethane	< 0.61	0.61	ug/m3	1	3/24/2017 12:49:00 AM
1,1-Dichloroethene	< 0.59	0.59	ug/m3	1	3/24/2017 12:49:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1	ug/m3	1	3/24/2017 12:49:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74	ug/m3	1	3/24/2017 12:49:00 AM
1,2-Dibromoethane	< 1.2	1.2	ug/m3	1	3/24/2017 12:49:00 AM
1,2-Dichlorobenzene	< 0.90	0.90	ug/m3	1	3/24/2017 12:49:00 AM
1,2-Dichloroethane	< 0.61	0.61	ug/m3	1	3/24/2017 12:49:00 AM
1,2-Dichloropropane	< 0.69	0.69	ug/m3	1	3/24/2017 12:49:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74	ug/m3	1	3/24/2017 12:49:00 AM
1,3-butadiene	< 0.33	0.33	ug/m3	1	3/24/2017 12:49:00 AM
1,3-Dichlorobenzene	< 0.90	0.90	ug/m3	1	3/24/2017 12:49:00 AM
1,4-Dichlorobenzene	< 0.90	0.90	ug/m3	1	3/24/2017 12:49:00 AM
1,4-Dioxane	< 1.1	1.1	ug/m3	1	3/24/2017 12:49:00 AM
2,2,4-trimethylpentane	< 0.70	0.70	ug/m3	1	3/24/2017 12:49:00 AM
4-ethyltoluene	< 0.74	0.74	ug/m3	1	3/24/2017 12:49:00 AM
Acetone	240	28	ug/m3	40	3/25/2017 12:36:00 AM
Allyl chloride	< 0.47	0.47	ug/m3	1	3/24/2017 12:49:00 AM
Benzene	0.54	0.48	ug/m3	1	3/24/2017 12:49:00 AM
Benzyl chloride	< 0.86	0.86	ug/m3	1	3/24/2017 12:49:00 AM
Bromodichloromethane	< 1.0	1.0	ug/m3	1	3/24/2017 12:49:00 AM
Bromoform	< 1.6	1.6	ug/m3	1	3/24/2017 12:49:00 AM
Bromomethane	< 0.58	0.58	ug/m3	1	3/24/2017 12:49:00 AM
Carbon disulfide	< 0.47	0.47	ug/m3	1	3/24/2017 12:49:00 AM
Carbon tetrachloride	0.38	0.25	ug/m3	1	3/24/2017 12:49:00 AM
Chlorobenzene	< 0.69	0.69	ug/m3	1	3/24/2017 12:49:00 AM
Chloroethane	< 0.40	0.40	ug/m3	1	3/24/2017 12:49:00 AM
Chloroform	< 0.73	0.73	ug/m3	1	3/24/2017 12:49:00 AM
Chloromethane	1.1	0.31	ug/m3	1	3/24/2017 12:49:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59	ug/m3	1	3/24/2017 12:49:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68	ug/m3	1	3/24/2017 12:49:00 AM
Cyclohexane	< 0.52	0.52	ug/m3	1	3/24/2017 12:49:00 AM
Dibromochloromethane	< 1.3	1.3	ug/m3	1	3/24/2017 12:49:00 AM
Ethyl acetate	1.9	0.54	ug/m3	1	3/24/2017 12:49:00 AM
Ethylbenzene	< 0.65	0.65	ug/m3	1	3/24/2017 12:49:00 AM
Freon 11	1.6	0.84	ug/m3	1	3/24/2017 12:49:00 AM
Freon 113	< 1.1	1.1	ug/m3	1	3/24/2017 12:49:00 AM
Freon 114	< 1.0	1.0	ug/m3	1	3/24/2017 12:49:00 AM

Qualifiers:

^{**} Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

[.] Results reported are not blank corrected

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: OS-1-20170321

 Lab Order:
 C1703065
 Tag Number: 479,155

 Project:
 3130 Monroe
 Collection Date: 3/21/2017

 Lab ID:
 C1703065-003A
 Matrix: AIR

Lab ID: C1703065-003A Matrix: All

Analyses	Result	**Limit Qu	al Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15			Analyst: RJP
Freon 12	2.1	0.74	ug/m3	1	3/24/2017 12:49:00 AM
Heptane	< 0.61	0.61	ug/m3	1	3/24/2017 12:49:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6	ug/m3	1	3/24/2017 12:49:00 AM
Hexane	< 0.53	0.53	ug/m3	1	3/24/2017 12:49:00 AM
Isopropyl alcohol	28	3.7	ug/m3	10	3/24/2017 11:59:00 PM
m&p-Xylene	< 1.3	1.3	ug/m3	1	3/24/2017 12:49:00 AM
Methyl Butyl Ketone	< 1.2	1.2	ug/m3	1	3/24/2017 12:49:00 AM
Methyl Ethyl Ketone	1.1	0.88	ug/m3	1	3/24/2017 12:49:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2	ug/m3	1	3/24/2017 12:49:00 AM
Methyl tert-butyl ether	< 0.54	0.54	ug/m3	1	3/24/2017 12:49:00 AM
Methylene chloride	0.69	0.52	ug/m3	1	3/24/2017 12:49:00 AM
o-Xylene	< 0.65	0.65	ug/m3	1	3/24/2017 12:49:00 AM
Propylene	< 0.26	0.26	ug/m3	1	3/24/2017 12:49:00 AM
Styrene	< 0.64	0.64	ug/m3	1	3/24/2017 12:49:00 AM
Tetrachloroethylene	< 1.0	1.0	ug/m3	1	3/24/2017 12:49:00 AM
Tetrahydrofuran	< 0.44	0.44	ug/m3	1	3/24/2017 12:49:00 AM
Toluene	1.1	0.57	ug/m3	1	3/24/2017 12:49:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59	ug/m3	1	3/24/2017 12:49:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68	ug/m3	1	3/24/2017 12:49:00 AM
Trichloroethene	< 0.21	0.21	ug/m3	1	3/24/2017 12:49:00 AM
Vinyl acetate	< 0.53	0.53	ug/m3	1	3/24/2017 12:49:00 AM
Vinyl Bromide	< 0.66	0.66	ug/m3	1	3/24/2017 12:49:00 AM
Vinyl chloride	< 0.10	0.10	ug/m3	1	3/24/2017 12:49:00 AM

Qualifiers: **

** Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected

Date: 28-Mar-17

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

Received at Lab by:	Relinquished by:	Sampled by:	Chain of Custody												05-1-2010321	AS-2-20170321	AS-1-30170321	Sample ID	*For Same and Next Day TAT Plea	*Same Day	*Next Day by 5pm	2 Business Days	3 Business Days	5 Business Days 4 Business Days	e. 	./		Centek Laboratorius	
B		JUAN ZICKYCI	Print Name														3/31/2017	Date Sampled			150%		50%	25%		www.CentekLabs.com	Syracuse, NY 13206	143 Midler Park Drive	Centek Labs - Cha
															479	353	189	Number		Phone: (Email: (z/		8, 2	Report to: Address: 2/	Company: Am	vapor indusion & IAU	Union Internity		Chain of Custody
	Eir	Lym 3	Signature												155	109	278	Number	Regulator Anal	1000	S (S) TOWN)	Roch	110 S O/	11 Engine	a IAV			,
20 lc 3-23.	, from	rear-								,					4	-	70-15	1	Analysis Request	07/	(zum) (a) grand cariona, com	/	Κ.	inter Ara	Company: RAVI En general + Card Surveyers	Canister Order #: 6355		Project 3130 MONROE	1
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Work Order # C	"For LAB USE ONLY	FedEx UPS Picku	COUTING CIRCLE C	1	•	**=	 	 		Things.				 	 - 7	-	1 1	RecV/Analysis	Labs Vacuum**						me:	1 Ug/8/3 + I CE	1ug/M3		Detection Limit
C1703065 3		Pickup/Dropoff	盖												cutation army play	6	The or many his	(a) 5 to 10	Comments							.25 Cat 'B' Like		Level	Report Level

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-1-20171205

 Lab Order:
 C1712024
 Tag Number:
 1191.1167

 Project:
 3130 Monroe Ave
 Collection Date:
 12/5/2017

Lab ID: C1712024-001A **Matrix:** AIR

Analyses	Result	**Limit Qua	al Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15			Analyst: RJF
1,1,1-Trichloroethane	< 0.82	0.82	ug/m3	1	12/8/2017 9:25:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/m3	1	12/8/2017 9:25:00 PM
1,1,2-Trichloroethane	< 0.82	0.82	ug/m3	1	12/8/2017 9:25:00 PM
1,1-Dichloroethane	< 0.61	0.61	ug/m3	1	12/8/2017 9:25:00 PM
1,1-Dichloroethene	< 0.59	0.59	ug/m3	1	12/8/2017 9:25:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1	ug/m3	1	12/8/2017 9:25:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74	ug/m3	1	12/8/2017 9:25:00 PM
1,2-Dibromoethane	< 1.2	1.2	ug/m3	1	12/8/2017 9:25:00 PM
1,2-Dichlorobenzene	< 0.90	0.90	ug/m3	1	12/8/2017 9:25:00 PM
1,2-Dichloroethane	< 0.61	0.61	ug/m3	1	12/8/2017 9:25:00 PM
1,2-Dichloropropane	< 0.69	0.69	ug/m3	1	12/8/2017 9:25:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74	ug/m3	1	12/8/2017 9:25:00 PM
1,3-butadiene	< 0.33	0.33	ug/m3	1	12/8/2017 9:25:00 PM
1,3-Dichlorobenzene	< 0.90	0.90	ug/m3	1	12/8/2017 9:25:00 PM
1,4-Dichlorobenzene	< 0.90	0.90	ug/m3	1	12/8/2017 9:25:00 PM
1,4-Dioxane	< 1.1	1.1	ug/m3	1	12/8/2017 9:25:00 PM
2,2,4-trimethylpentane	< 0.70	0.70	ug/m3	1	12/8/2017 9:25:00 PM
4-ethyltoluene	< 0.74	0.74	ug/m3	1	12/8/2017 9:25:00 PM
Acetone	1700	570	ug/m3	810	12/11/2017 3:54:00 PI
Allyl chloride	< 0.47	0.47	ug/m3	1	12/8/2017 9:25:00 PM
Benzene	0.93	0.48	ug/m3	1	12/8/2017 9:25:00 PM
Benzyl chloride	< 0.86	0.86	ug/m3	1	12/8/2017 9:25:00 PM
Bromodichloromethane	< 1.0	1.0	ug/m3	1	12/8/2017 9:25:00 PM
Bromoform	< 1.6	1.6	ug/m3	1	12/8/2017 9:25:00 PM
Bromomethane	< 0.58	0.58	ug/m3	1	12/8/2017 9:25:00 PM
Carbon disulfide	< 0.47	0.47	ug/m3	1	12/8/2017 9:25:00 PM
Carbon tetrachloride	0.57	0.25	ug/m3	1	12/8/2017 9:25:00 PM
Chlorobenzene	< 0.69	0.69	ug/m3	1	12/8/2017 9:25:00 PM
Chloroethane	< 0.40	0.40	ug/m3	1	12/8/2017 9:25:00 PM
Chloroform	0.83	0.73	ug/m3	1	12/8/2017 9:25:00 PM
Chloromethane	1.2	0.31	ug/m3	1	12/8/2017 9:25:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59	ug/m3	1	12/8/2017 9:25:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68	ug/m3	1	12/8/2017 9:25:00 PM
Cyclohexane	< 0.52	0.52	ug/m3	1	12/8/2017 9:25:00 PM
Dibromochloromethane	< 1.3	1.3	ug/m3	1	12/8/2017 9:25:00 PM
Ethyl acetate	270	22	ug/m3	40	12/8/2017 11:58:00 PI
Ethylbenzene	< 0.65	0.65	ug/m3	1	12/8/2017 9:25:00 PM
Freon 11	1.3	0.84	ug/m3	1	12/8/2017 9:25:00 PM
Freon 113	< 1.1	1.1	ug/m3	1	12/8/2017 9:25:00 PM
Freon 114	< 1.0	1.0	ug/m3	1	12/8/2017 9:25:00 PM

Qualifiers:

- ** Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected

- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-1-20171205

Lab Order: C1712024 **Tag Number:** 1191.1167

 Project:
 3130 Monroe Ave
 Collection Date: 12/5/2017

 Lab ID:
 C1712024-001A
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO)-15			Analyst: RJP
Freon 12	2.5	0.74		ug/m3	1	12/8/2017 9:25:00 PM
Heptane	< 0.61	0.61		ug/m3	1	12/8/2017 9:25:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	12/8/2017 9:25:00 PM
Hexane	< 0.53	0.53		ug/m3	1	12/8/2017 9:25:00 PM
Isopropyl alcohol	260	29		ug/m3	81	12/11/2017 3:17:00 PM
m&p-Xylene	0.61	1.3	J	ug/m3	1	12/8/2017 9:25:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	12/8/2017 9:25:00 PM
Methyl Ethyl Ketone	1.9	0.88		ug/m3	1	12/8/2017 9:25:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	12/8/2017 9:25:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	12/8/2017 9:25:00 PM
Methylene chloride	1.1	0.52		ug/m3	1	12/8/2017 9:25:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	12/8/2017 9:25:00 PM
Propylene	< 0.26	0.26		ug/m3	1	12/8/2017 9:25:00 PM
Styrene	< 0.64	0.64		ug/m3	1	12/8/2017 9:25:00 PM
Tetrachloroethylene	42	10		ug/m3	10	12/8/2017 11:22:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	12/8/2017 9:25:00 PM
Toluene	12	5.7		ug/m3	10	12/8/2017 11:22:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	12/8/2017 9:25:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	12/8/2017 9:25:00 PM
Trichloroethene	0.64	0.21		ug/m3	1	12/8/2017 9:25:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	12/8/2017 9:25:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	12/8/2017 9:25:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	12/8/2017 9:25:00 PM

Qualifiers:

^{**} Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-2-20171205

Lab Order: C1712024 **Tag Number:** 460.310

Project: 3130 Monroe Ave Collection Date:

Lab ID: C1712024-002A **Matrix:** AIR

Analyses	Result	**Limit Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82	ug/m3	1	12/8/2017 10:05:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/m3	1	12/8/2017 10:05:00 PM
1,1,2-Trichloroethane	< 0.82	0.82	ug/m3	1	12/8/2017 10:05:00 PM
1,1-Dichloroethane	< 0.61	0.61	ug/m3	1	12/8/2017 10:05:00 PM
1,1-Dichloroethene	< 0.59	0.59	ug/m3	1	12/8/2017 10:05:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1	ug/m3	1	12/8/2017 10:05:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74	ug/m3	1	12/8/2017 10:05:00 PM
1,2-Dibromoethane	< 1.2	1.2	ug/m3	1	12/8/2017 10:05:00 PM
1,2-Dichlorobenzene	< 0.90	0.90	ug/m3	1	12/8/2017 10:05:00 PM
1,2-Dichloroethane	< 0.61	0.61	ug/m3	1	12/8/2017 10:05:00 PM
1,2-Dichloropropane	< 0.69	0.69	ug/m3	1	12/8/2017 10:05:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74	ug/m3	1	12/8/2017 10:05:00 PM
1,3-butadiene	< 0.33	0.33	ug/m3	1	12/8/2017 10:05:00 PM
1,3-Dichlorobenzene	< 0.90	0.90	ug/m3	1	12/8/2017 10:05:00 PM
1,4-Dichlorobenzene	< 0.90	0.90	ug/m3	1	12/8/2017 10:05:00 PM
1,4-Dioxane	< 1.1	1.1	ug/m3	1	12/8/2017 10:05:00 PM
2,2,4-trimethylpentane	< 0.70	0.70	ug/m3	1	12/8/2017 10:05:00 PM
4-ethyltoluene	< 0.74	0.74	ug/m3	1	12/8/2017 10:05:00 PM
Acetone	8900	1700	ug/m3	2430	12/11/2017 5:47:00 PM
Allyl chloride	< 0.47	0.47	ug/m3	1	12/8/2017 10:05:00 PM
Benzene	1.5	0.48	ug/m3	1	12/8/2017 10:05:00 PM
Benzyl chloride	< 0.86	0.86	ug/m3	1	12/8/2017 10:05:00 PM
Bromodichloromethane	< 1.0	1.0	ug/m3	1	12/8/2017 10:05:00 PM
Bromoform	< 1.6	1.6	ug/m3	1	12/8/2017 10:05:00 PM
Bromomethane	< 0.58	0.58	ug/m3	1	12/8/2017 10:05:00 PM
Carbon disulfide	< 0.47	0.47	ug/m3	1	12/8/2017 10:05:00 PM
Carbon tetrachloride	0.57	0.25	ug/m3	1	12/8/2017 10:05:00 PM
Chlorobenzene	< 0.69	0.69	ug/m3	1	12/8/2017 10:05:00 PM
Chloroethane	< 0.40	0.40	ug/m3	1	12/8/2017 10:05:00 PM
Chloroform	2.2	0.73	ug/m3	1	12/8/2017 10:05:00 PM
Chloromethane	2.0	0.31	ug/m3	1	12/8/2017 10:05:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59	ug/m3	1	12/8/2017 10:05:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68	ug/m3	1	12/8/2017 10:05:00 PM
Cyclohexane	< 0.52	0.52	ug/m3	1	12/8/2017 10:05:00 PM
Dibromochloromethane	< 1.3	1.3	ug/m3	1	12/8/2017 10:05:00 PM
Ethyl acetate	540	130	ug/m3	243	12/11/2017 5:10:00 PM
Ethylbenzene	< 0.65	0.65	ug/m3	1	12/8/2017 10:05:00 PM
Freon 11	1.2	0.84	ug/m3	1	12/8/2017 10:05:00 PM
Freon 113	< 1.1	1.1	ug/m3	1	12/8/2017 10:05:00 PM
Freon 114	< 1.0	1.0	ug/m3	1	12/8/2017 10:05:00 PM

Qualifiers:

^{**} Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

[.] Results reported are not blank corrected

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-2-20171205

Lab Order: C1712024 **Tag Number:** 460.310

Project: 3130 Monroe Ave Collection Date:

Lab ID: C1712024-002A **Matrix:** AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO)-15			Analyst: RJP
Freon 12	2.5	0.74		ug/m3	1	12/8/2017 10:05:00 PM
Heptane	< 0.61	0.61		ug/m3	1	12/8/2017 10:05:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	12/8/2017 10:05:00 PM
Hexane	0.35	0.53	J	ug/m3	1	12/8/2017 10:05:00 PM
Isopropyl alcohol	1400	880		ug/m3	2430	12/11/2017 5:47:00 PM
m&p-Xylene	0.69	1.3	J	ug/m3	1	12/8/2017 10:05:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	12/8/2017 10:05:00 PM
Methyl Ethyl Ketone	2.6	0.88		ug/m3	1	12/8/2017 10:05:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	12/8/2017 10:05:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	12/8/2017 10:05:00 PM
Methylene chloride	2.3	0.52		ug/m3	1	12/8/2017 10:05:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	12/8/2017 10:05:00 PM
Propylene	< 0.26	0.26		ug/m3	1	12/8/2017 10:05:00 PM
Styrene	< 0.64	0.64		ug/m3	1	12/8/2017 10:05:00 PM
Tetrachloroethylene	55	10		ug/m3	10	12/9/2017 12:35:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	12/8/2017 10:05:00 PM
Toluene	26	5.7		ug/m3	10	12/9/2017 12:35:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	12/8/2017 10:05:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	12/8/2017 10:05:00 PM
Trichloroethene	1.7	0.21		ug/m3	1	12/8/2017 10:05:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	12/8/2017 10:05:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	12/8/2017 10:05:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	12/8/2017 10:05:00 PM

Qualifiers: **

^{**} Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

[.] Results reported are not blank corrected

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: OS-1-20171205

Lab Order: C1712024 **Tag Number:** 95.272

Project: 3130 Monroe Ave Collection Date:

Lab ID: C1712024-003A **Matrix:** AIR

Analyses	Result	**Limit Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82	ug/m3	1	12/8/2017 10:45:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/m3	1	12/8/2017 10:45:00 PM
1,1,2-Trichloroethane	< 0.82	0.82	ug/m3	1	12/8/2017 10:45:00 PM
1,1-Dichloroethane	< 0.61	0.61	ug/m3	1	12/8/2017 10:45:00 PM
1,1-Dichloroethene	< 0.59	0.59	ug/m3	1	12/8/2017 10:45:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1	ug/m3	1	12/8/2017 10:45:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74	ug/m3	1	12/8/2017 10:45:00 PM
1,2-Dibromoethane	< 1.2	1.2	ug/m3	1	12/8/2017 10:45:00 PM
1,2-Dichlorobenzene	< 0.90	0.90	ug/m3	1	12/8/2017 10:45:00 PM
1,2-Dichloroethane	< 0.61	0.61	ug/m3	1	12/8/2017 10:45:00 PM
1,2-Dichloropropane	< 0.69	0.69	ug/m3	1	12/8/2017 10:45:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74	ug/m3	1	12/8/2017 10:45:00 PM
1,3-butadiene	< 0.33	0.33	ug/m3	1	12/8/2017 10:45:00 PM
1,3-Dichlorobenzene	< 0.90	0.90	ug/m3	1	12/8/2017 10:45:00 PM
1,4-Dichlorobenzene	< 0.90	0.90	ug/m3	1	12/8/2017 10:45:00 PM
1,4-Dioxane	< 1.1	1.1	ug/m3	1	12/8/2017 10:45:00 PM
2,2,4-trimethylpentane	< 0.70	0.70	ug/m3	1	12/8/2017 10:45:00 PM
4-ethyltoluene	< 0.74	0.74	ug/m3	1	12/8/2017 10:45:00 PM
Acetone	36	7.1	ug/m3	10	12/9/2017 1:48:00 AM
Allyl chloride	< 0.47	0.47	ug/m3	1	12/8/2017 10:45:00 PM
Benzene	0.61	0.48	ug/m3	1	12/8/2017 10:45:00 PM
Benzyl chloride	< 0.86	0.86	ug/m3	1	12/8/2017 10:45:00 PM
Bromodichloromethane	< 1.0	1.0	ug/m3	1	12/8/2017 10:45:00 PM
Bromoform	< 1.6	1.6	ug/m3	1	12/8/2017 10:45:00 PM
Bromomethane	< 0.58	0.58	ug/m3	1	12/8/2017 10:45:00 PM
Carbon disulfide	< 0.47	0.47	ug/m3	1	12/8/2017 10:45:00 PM
Carbon tetrachloride	0.63	0.25	ug/m3	1	12/8/2017 10:45:00 PM
Chlorobenzene	< 0.69	0.69	ug/m3	1	12/8/2017 10:45:00 PM
Chloroethane	< 0.40	0.40	ug/m3	1	12/8/2017 10:45:00 PM
Chloroform	< 0.73	0.73	ug/m3	1	12/8/2017 10:45:00 PM
Chloromethane	0.95	0.31	ug/m3	1	12/8/2017 10:45:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59	ug/m3	1	12/8/2017 10:45:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68	ug/m3	1	12/8/2017 10:45:00 PM
Cyclohexane	< 0.52	0.52	ug/m3	1	12/8/2017 10:45:00 PM
Dibromochloromethane	< 1.3	1.3	ug/m3	1	12/8/2017 10:45:00 PM
Ethyl acetate	1.1	0.54	ug/m3	1	12/8/2017 10:45:00 PM
Ethylbenzene	< 0.65	0.65	ug/m3	1	12/8/2017 10:45:00 PM
Freon 11	1.5	0.84	ug/m3	1	12/8/2017 10:45:00 PM
Freon 113	< 1.1	1.1	ug/m3	1	12/8/2017 10:45:00 PM
Freon 114	< 1.0	1.0	ug/m3	1	12/8/2017 10:45:00 PM

Qualifiers:

^{**} Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

[.] Results reported are not blank corrected

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: OS-1-20171205

Lab Order: C1712024 **Tag Number:** 95.272

Project: 3130 Monroe Ave Collection Date:

Lab ID: C1712024-003A **Matrix:** AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		тс)-15			Analyst: RJP
Freon 12	2.9	0.74		ug/m3	1	12/8/2017 10:45:00 PM
Heptane	< 0.61	0.61		ug/m3	1	12/8/2017 10:45:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	12/8/2017 10:45:00 PM
Hexane	< 0.53	0.53		ug/m3	1	12/8/2017 10:45:00 PM
Isopropyl alcohol	3.8	0.37		ug/m3	1	12/8/2017 10:45:00 PM
m&p-Xylene	0.48	1.3	J	ug/m3	1	12/8/2017 10:45:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	12/8/2017 10:45:00 PM
Methyl Ethyl Ketone	< 0.88	0.88		ug/m3	1	12/8/2017 10:45:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	12/8/2017 10:45:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	12/8/2017 10:45:00 PM
Methylene chloride	0.87	0.52		ug/m3	1	12/8/2017 10:45:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	12/8/2017 10:45:00 PM
Propylene	< 0.26	0.26		ug/m3	1	12/8/2017 10:45:00 PM
Styrene	< 0.64	0.64		ug/m3	1	12/8/2017 10:45:00 PM
Tetrachloroethylene	0.75	1.0	J	ug/m3	1	12/8/2017 10:45:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	12/8/2017 10:45:00 PM
Toluene	0.87	0.57		ug/m3	1	12/8/2017 10:45:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	12/8/2017 10:45:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	12/8/2017 10:45:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	12/8/2017 10:45:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	12/8/2017 10:45:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	12/8/2017 10:45:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	12/8/2017 10:45:00 PM

Qualifiers: ** Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected

Date: 13-Dec-17

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

3 Business Days 4 Business Days 5 Business Days 2 Business Days Ξ Turnaround Time: Sampled by: 'Same Day "Next Day by 5pm
"Next Day by Noon Relinquished by: Chain of Custody For Same and Next Day TAT Please Notify Lab 35 ... 75-2-201712W 05-1--2017 1205 Sample ID 20171205 Check JUNA ZICAKI www.CentekLabs.com Syracuse, NY 13206 315-431-9730 143 Midler Park Drive Print Name Centek Labs - Chain of Custody Rush TAT Surcharge % Ì 150% 150% 25% 50% 75% 80% 15 Date Sampled Due Date: Company from Engineers Phone: 585 Email: City, State, Zip Report to: Vapor Intrusion & IAQ Address: つるか Canister Number 0 8 (ZICARI @) ravieng.com 2110 S Clinton Signature Regulator Rock 1167 2/0 Number 657-)... 1001 PO# Site Name: 3/30 /Donroe Project: Quote # Canister Order #: Analysis 17 WYY 2-12 146 #wo 4515042 NYSDEC C-828109 Request 0 Address: City, State, Zip Email: Check Here If Same: Company: 83 Phone: Invoice to: Date/Time 29.51 12/05/17 30 Field Vacuum Start / Stop AUR ju, 10 Work Order #CU772 024 Courier: CIRCLE ONE FedEx 1 "For LAB USE ONL" Detection Limit RecV/Analysis Labs Vacuum** 1ug/M3 Sppbv 1ug/8/3 +TCE .25 Sdn Pickup/Dropoff JAN EURS Report Level 160 Z Comments Cat "B" Like Level ii [ewel] 8001 500 2

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Received at Lab by: *** By signing Centek Labs Chain of Custody, you are accepting Centek Labs Teknis and Conditions listed on the reverse side

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-2-20180809

 Lab Order:
 C1808033
 Tag Number:
 541,338

 Project:
 3130 Monroe Ave
 Collection Date:
 8/9/2018

Lab ID: C1808033-001A **Matrix:** AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-V0	C-DCE-1,1DCE	то	-15			Analyst: RJF
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	8/13/2018 9:59:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	8/13/2018 9:59:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	8/13/2018 9:59:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	8/13/2018 9:59:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	8/13/2018 9:59:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	8/13/2018 9:59:00 PM
1,2,4-Trimethylbenzene	0.49	0.74	J	ug/m3	1	8/13/2018 9:59:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	8/13/2018 9:59:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	8/13/2018 9:59:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	8/13/2018 9:59:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	8/13/2018 9:59:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	8/13/2018 9:59:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	8/13/2018 9:59:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	8/13/2018 9:59:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	8/13/2018 9:59:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	8/13/2018 9:59:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	8/13/2018 9:59:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	8/13/2018 9:59:00 PM
Acetone	33000	21000		ug/m3	29160	8/14/2018 7:57:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	8/13/2018 9:59:00 PM
Benzene	0.73	0.48		ug/m3	1	8/13/2018 9:59:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	8/13/2018 9:59:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	8/13/2018 9:59:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	8/13/2018 9:59:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	8/13/2018 9:59:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	8/13/2018 9:59:00 PM
Carbon tetrachloride	0.31	0.19		ug/m3	1	8/13/2018 9:59:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	8/13/2018 9:59:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	8/13/2018 9:59:00 PM
Chloroform	2.9	0.73		ug/m3	1	8/13/2018 9:59:00 PM
Chloromethane	1.3	0.31		ug/m3	1	8/13/2018 9:59:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	8/13/2018 9:59:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	8/13/2018 9:59:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	8/13/2018 9:59:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	8/13/2018 9:59:00 PM
Ethyl acetate	790	400		ug/m3	729	8/14/2018 7:21:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	8/13/2018 9:59:00 PM
Freon 11	0.90	0.84		ug/m3	1	8/13/2018 9:59:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	8/13/2018 9:59:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	8/13/2018 9:59:00 PM

Qualifiers:

Date: 14-Aug-18

^{**} Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

[.] Results reported are not blank corrected

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-2-20180809

 Project:
 3130 Monroe Ave
 Collection Date:
 8/9/2018

 Lab ID:
 C1808033-001A
 Matrix:
 AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC	-DCE-1,1DCE	TO)-15			Analyst: RJP
Freon 12	1.7	0.74		ug/m3	1	8/13/2018 9:59:00 PM
Heptane	0.41	0.61	J	ug/m3	1	8/13/2018 9:59:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	8/13/2018 9:59:00 PM
Hexane	< 0.53	0.53		ug/m3	1	8/13/2018 9:59:00 PM
Isopropyl alcohol	13000	11000		ug/m3	29160	8/14/2018 7:57:00 AM
m&p-Xylene	1.1	1.3	J	ug/m3	1	8/13/2018 9:59:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	8/13/2018 9:59:00 PM
Methyl Ethyl Ketone	22	8.8		ug/m3	10	8/13/2018 11:17:00 PM
Methyl Isobutyl Ketone	0.41	1.2	J	ug/m3	1	8/13/2018 9:59:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	8/13/2018 9:59:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	8/13/2018 9:59:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	8/13/2018 9:59:00 PM
Propylene	< 0.26	0.26		ug/m3	1	8/13/2018 9:59:00 PM
Styrene	< 0.64	0.64		ug/m3	1	8/13/2018 9:59:00 PM
Tetrachloroethylene	27	10		ug/m3	10	8/13/2018 11:17:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	8/13/2018 9:59:00 PM
Toluene	3.8	0.57		ug/m3	1	8/13/2018 9:59:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	8/13/2018 9:59:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	8/13/2018 9:59:00 PM
Trichloroethene	0.38	0.16		ug/m3	1	8/13/2018 9:59:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	8/13/2018 9:59:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	8/13/2018 9:59:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	8/13/2018 9:59:00 PM

Qualifiers: ** Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

 $JN \quad \ Non-routine \ analyte. \ Quantitation \ estimated.$

S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected

Date: 14-Aug-18

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-1-20180809

 Lab Order:
 C1808033
 Tag Number:
 195,260

 Project:
 3130 Monroe Ave
 Collection Date:
 8/9/2018

Lab ID: C1808033-002A **Matrix:** AIR

Analyses	Result	**Limit Qua	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-V	VC-DCE-1,1DCE	TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82	ug/m3	1	8/13/2018 10:40:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/m3	1	8/13/2018 10:40:00 PM
1,1,2-Trichloroethane	< 0.82	0.82	ug/m3	1	8/13/2018 10:40:00 PM
1,1-Dichloroethane	< 0.61	0.61	ug/m3	1	8/13/2018 10:40:00 PM
1,1-Dichloroethene	< 0.16	0.16	ug/m3	1	8/13/2018 10:40:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1	ug/m3	1	8/13/2018 10:40:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74	ug/m3	1	8/13/2018 10:40:00 PM
1,2-Dibromoethane	< 1.2	1.2	ug/m3	1	8/13/2018 10:40:00 PM
1,2-Dichlorobenzene	< 0.90	0.90	ug/m3	1	8/13/2018 10:40:00 PM
1,2-Dichloroethane	< 0.61	0.61	ug/m3	1	8/13/2018 10:40:00 PM
1,2-Dichloropropane	< 0.69	0.69	ug/m3	1	8/13/2018 10:40:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74	ug/m3	1	8/13/2018 10:40:00 PM
1,3-butadiene	< 0.33	0.33	ug/m3	1	8/13/2018 10:40:00 PM
1,3-Dichlorobenzene	< 0.90	0.90	ug/m3	1	8/13/2018 10:40:00 PM
1,4-Dichlorobenzene	< 0.90	0.90	ug/m3	1	8/13/2018 10:40:00 PM
1,4-Dioxane	< 1.1	1.1	ug/m3	1	8/13/2018 10:40:00 PM
2,2,4-trimethylpentane	< 0.70	0.70	ug/m3	1	8/13/2018 10:40:00 PM
4-ethyltoluene	< 0.74	0.74	ug/m3	1	8/13/2018 10:40:00 PM
Acetone	15000	3600	ug/m3	4860	8/14/2018 9:14:00 AM
Allyl chloride	< 0.47	0.47	ug/m3	1	8/13/2018 10:40:00 PM
Benzene	0.64	0.48	ug/m3	1	8/13/2018 10:40:00 PM
Benzyl chloride	< 0.86	0.86	ug/m3	1	8/13/2018 10:40:00 PM
Bromodichloromethane	< 1.0	1.0	ug/m3	1	8/13/2018 10:40:00 PM
Bromoform	< 1.6	1.6	ug/m3	1	8/13/2018 10:40:00 PM
Bromomethane	< 0.58	0.58	ug/m3	1	8/13/2018 10:40:00 PM
Carbon disulfide	< 0.47	0.47	ug/m3	1	8/13/2018 10:40:00 PM
Carbon tetrachloride	0.31	0.19	ug/m3	1	8/13/2018 10:40:00 PM
Chlorobenzene	< 0.69	0.69	ug/m3	1	8/13/2018 10:40:00 PM
Chloroethane	< 0.40	0.40	ug/m3	1	8/13/2018 10:40:00 PM
Chloroform	1.1	0.73	ug/m3	1	8/13/2018 10:40:00 PM
Chloromethane	1.1	0.31	ug/m3	1	8/13/2018 10:40:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16	ug/m3	1	8/13/2018 10:40:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68	ug/m3	1	8/13/2018 10:40:00 PM
Cyclohexane	< 0.52	0.52	ug/m3	1	8/13/2018 10:40:00 PM
Dibromochloromethane	< 1.3	1.3	ug/m3	1	8/13/2018 10:40:00 PM
Ethyl acetate	530	130	ug/m3	243	8/14/2018 8:38:00 AM
Ethylbenzene	< 0.65	0.65	ug/m3	1	8/13/2018 10:40:00 PM
Freon 11	0.96	0.84	ug/m3	1	8/13/2018 10:40:00 PM
Freon 113	< 1.1	1.1	ug/m3	1	8/13/2018 10:40:00 PM
Freon 114	< 1.0	1.0	ug/m3	1	8/13/2018 10:40:00 PM

Qualifiers:

Date: 14-Aug-18

^{**} Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

[.] Results reported are not blank corrected

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-1-20180809

C1808033

Lab Order: **Tag Number:** 195,260 **Collection Date:** 8/9/2018 **Project:** 3130 Monroe Ave Matrix: AIR Lab ID: C1808033-002A

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC	C-DCE-1,1DCE	то	-15			Analyst: RJP
Freon 12	2.0	0.74		ug/m3	1	8/13/2018 10:40:00 PM
Heptane	0.57	0.61	J	ug/m3	1	8/13/2018 10:40:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	8/13/2018 10:40:00 PM
Hexane	< 0.53	0.53		ug/m3	1	8/13/2018 10:40:00 PM
Isopropyl alcohol	6100	1800		ug/m3	4860	8/14/2018 9:14:00 AM
m&p-Xylene	0.65	1.3	J	ug/m3	1	8/13/2018 10:40:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	8/13/2018 10:40:00 PM
Methyl Ethyl Ketone	5.6	0.88		ug/m3	1	8/13/2018 10:40:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	8/13/2018 10:40:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	8/13/2018 10:40:00 PM
Methylene chloride	0.38	0.52	J	ug/m3	1	8/13/2018 10:40:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	8/13/2018 10:40:00 PM
Propylene	< 0.26	0.26		ug/m3	1	8/13/2018 10:40:00 PM
Styrene	< 0.64	0.64		ug/m3	1	8/13/2018 10:40:00 PM
Tetrachloroethylene	21	10		ug/m3	10	8/14/2018 12:30:00 AM
Tetrahydrofuran	0.71	0.44		ug/m3	1	8/13/2018 10:40:00 PM
Toluene	3.1	0.57		ug/m3	1	8/13/2018 10:40:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	8/13/2018 10:40:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	8/13/2018 10:40:00 PM
Trichloroethene	0.48	0.16		ug/m3	1	8/13/2018 10:40:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	8/13/2018 10:40:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	8/13/2018 10:40:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	8/13/2018 10:40:00 PM

Qualifiers:

Date: 14-Aug-18

Quantitation Limit

В Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

Spike Recovery outside accepted recovery limits

Е Estimated Value above quantitation range

J Analyte detected below quantitation limit

Not Detected at the Limit of Detection

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CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-1-20181126

 Lab Order:
 C1811055
 Tag Number: 496,338

 Project:
 3130 Monroe Ave
 Collection Date: 11/26/2018

Lab ID: C1811055-001A **Matrix:** AIR

Analyses	Result	**Limit Qu	al Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC	-DCE-1,1DCE	TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82	ug/m3	1	11/30/2018 6:34:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/m3	1	11/30/2018 6:34:00 PM
1,1,2-Trichloroethane	< 0.82	0.82	ug/m3	1	11/30/2018 6:34:00 PM
1,1-Dichloroethane	< 0.61	0.61	ug/m3	1	11/30/2018 6:34:00 PM
1,1-Dichloroethene	< 0.16	0.16	ug/m3	1	11/30/2018 6:34:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1	ug/m3	1	11/30/2018 6:34:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74	ug/m3	1	11/30/2018 6:34:00 PM
1,2-Dibromoethane	< 1.2	1.2	ug/m3	1	11/30/2018 6:34:00 PM
1,2-Dichlorobenzene	< 0.90	0.90	ug/m3	1	11/30/2018 6:34:00 PM
1,2-Dichloroethane	< 0.61	0.61	ug/m3	1	11/30/2018 6:34:00 PM
1,2-Dichloropropane	< 0.69	0.69	ug/m3	1	11/30/2018 6:34:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74	ug/m3	1	11/30/2018 6:34:00 PM
1,3-butadiene	< 0.33	0.33	ug/m3	1	11/30/2018 6:34:00 PM
1,3-Dichlorobenzene	< 0.90	0.90	ug/m3	1	11/30/2018 6:34:00 PM
1,4-Dichlorobenzene	< 0.90	0.90	ug/m3	1	11/30/2018 6:34:00 PM
1,4-Dioxane	< 1.1	1.1	ug/m3	1	11/30/2018 6:34:00 PM
2,2,4-trimethylpentane	< 0.70	0.70	ug/m3	1	11/30/2018 6:34:00 PM
4-ethyltoluene	< 0.74	0.74	ug/m3	1	11/30/2018 6:34:00 PM
Acetone	5100	570	ug/m3	810	12/4/2018 4:20:00 PM
Allyl chloride	< 0.47	0.47	ug/m3	1	11/30/2018 6:34:00 PM
Benzene	0.70	0.48	ug/m3	1	11/30/2018 6:34:00 PM
Benzyl chloride	< 0.86	0.86	ug/m3	1	11/30/2018 6:34:00 PM
Bromodichloromethane	< 1.0	1.0	ug/m3	1	11/30/2018 6:34:00 PM
Bromoform	< 1.6	1.6	ug/m3	1	11/30/2018 6:34:00 PM
Bromomethane	< 0.58	0.58	ug/m3	1	11/30/2018 6:34:00 PM
Carbon disulfide	< 0.47	0.47	ug/m3	1	11/30/2018 6:34:00 PM
Carbon tetrachloride	0.63	0.19	ug/m3	1	11/30/2018 6:34:00 PM
Chlorobenzene	< 0.69	0.69	ug/m3	1	11/30/2018 6:34:00 PM
Chloroethane	< 0.40	0.40	ug/m3	1	11/30/2018 6:34:00 PM
Chloroform	< 0.73	0.73	ug/m3	1	11/30/2018 6:34:00 PM
Chloromethane	0.72	0.31	ug/m3	1	11/30/2018 6:34:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16	ug/m3	1	11/30/2018 6:34:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68	ug/m3	1	11/30/2018 6:34:00 PM
Cyclohexane	< 0.52	0.52	ug/m3	1	11/30/2018 6:34:00 PM
Dibromochloromethane	< 1.3	1.3	ug/m3	1	11/30/2018 6:34:00 PM
Ethyl acetate	110	43	ug/m3	81	12/4/2018 3:43:00 PM
Ethylbenzene	< 0.65	0.65	ug/m3	1	11/30/2018 6:34:00 PM
Freon 11	1.4	0.84	ug/m3	1	11/30/2018 6:34:00 PM
Freon 113	< 1.1	1.1	ug/m3	1	11/30/2018 6:34:00 PM
Freon 114	< 1.0	1.0	ug/m3	1	11/30/2018 6:34:00 PM

Qualifiers:

- ** Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected

Date: 05-Dec-18

- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-1-20181126

 Lab Order:
 C1811055
 Tag Number: 496,338

 Project:
 3130 Monroe Ave
 Collection Date: 11/26/2018

Lab ID: C1811055-001A **Matrix:** AIR

Analyses	Result	**Limit	Qual Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-	DCE-1,1DCE	то-	15		Analyst: RJP
Freon 12	2.5	0.74	ug/m3	1	11/30/2018 6:34:00 PM
Heptane	< 0.61	0.61	ug/m3	1	11/30/2018 6:34:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6	ug/m3	1	11/30/2018 6:34:00 PM
Hexane	< 0.53	0.53	ug/m3	1	11/30/2018 6:34:00 PM
Isopropyl alcohol	1000	290	ug/m3	810	12/4/2018 4:20:00 PM
m&p-Xylene	< 1.3	1.3	ug/m3	1	11/30/2018 6:34:00 PM
Methyl Butyl Ketone	< 1.2	1.2	ug/m3	1	11/30/2018 6:34:00 PM
Methyl Ethyl Ketone	2.2	0.88	ug/m3	1	11/30/2018 6:34:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2	ug/m3	1	11/30/2018 6:34:00 PM
Methyl tert-butyl ether	< 0.54	0.54	ug/m3	1	11/30/2018 6:34:00 PM
Methylene chloride	< 0.52	0.52	ug/m3	1	11/30/2018 6:34:00 PM
o-Xylene	< 0.65	0.65	ug/m3	1	11/30/2018 6:34:00 PM
Propylene	< 0.26	0.26	ug/m3	1	11/30/2018 6:34:00 PM
Styrene	< 0.64	0.64	ug/m3	1	11/30/2018 6:34:00 PM
Tetrachloroethylene	51	10	ug/m3	10	12/1/2018 3:13:00 AM
Tetrahydrofuran	< 0.44	0.44	ug/m3	1	11/30/2018 6:34:00 PM
Toluene	2.1	0.57	ug/m3	1	11/30/2018 6:34:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59	ug/m3	1	11/30/2018 6:34:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68	ug/m3	1	11/30/2018 6:34:00 PM
Trichloroethene	0.86	0.16	ug/m3	1	11/30/2018 6:34:00 PM
Vinyl acetate	< 0.53	0.53	ug/m3	1	11/30/2018 6:34:00 PM
Vinyl Bromide	< 0.66	0.66	ug/m3	1	11/30/2018 6:34:00 PM
Vinyl chloride	< 0.10	0.10	ug/m3	1	11/30/2018 6:34:00 PM

Qualifiers: ** Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

 $JN \quad \ Non-routine \ analyte. \ Quantitation \ estimated.$

S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected

Date: 05-Dec-18

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: OS-1-20181126

Lab Order: C1811055 **Tag Number:** 347,1167

Project: 3130 Monroe Ave Collection Date: 11/26/2018

Lab ID: C1811055-002A **Matrix:** AIR

Analyses	Result	**Limit Q	ual Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-V	/C-DCE-1,1DCE	TO-15	5		Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82	ug/m3	1	11/30/2018 7:14:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/m3	1	11/30/2018 7:14:00 PM
1,1,2-Trichloroethane	< 0.82	0.82	ug/m3	1	11/30/2018 7:14:00 PM
1,1-Dichloroethane	< 0.61	0.61	ug/m3	1	11/30/2018 7:14:00 PM
1,1-Dichloroethene	< 0.16	0.16	ug/m3	1	11/30/2018 7:14:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1	ug/m3	1	11/30/2018 7:14:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74	ug/m3	1	11/30/2018 7:14:00 PM
1,2-Dibromoethane	< 1.2	1.2	ug/m3	1	11/30/2018 7:14:00 PM
1,2-Dichlorobenzene	< 0.90	0.90	ug/m3	1	11/30/2018 7:14:00 PM
1,2-Dichloroethane	< 0.61	0.61	ug/m3	1	11/30/2018 7:14:00 PM
1,2-Dichloropropane	< 0.69	0.69	ug/m3	1	11/30/2018 7:14:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74	ug/m3	1	11/30/2018 7:14:00 PM
1,3-butadiene	< 0.33	0.33	ug/m3	1	11/30/2018 7:14:00 PM
1,3-Dichlorobenzene	< 0.90	0.90	ug/m3	1	11/30/2018 7:14:00 PM
1,4-Dichlorobenzene	< 0.90	0.90	ug/m3	1	11/30/2018 7:14:00 PM
1,4-Dioxane	< 1.1	1.1	ug/m3	1	11/30/2018 7:14:00 PM
2,2,4-trimethylpentane	< 0.70	0.70	ug/m3	1	11/30/2018 7:14:00 PM
4-ethyltoluene	< 0.74	0.74	ug/m3	1	11/30/2018 7:14:00 PM
Acetone	19	7.1	ug/m3	10	12/1/2018 3:49:00 AM
Allyl chloride	< 0.47	0.47	ug/m3	1	11/30/2018 7:14:00 PM
Benzene	0.80	0.48	ug/m3	1	11/30/2018 7:14:00 PM
Benzyl chloride	< 0.86	0.86	ug/m3	1	11/30/2018 7:14:00 PM
Bromodichloromethane	< 1.0	1.0	ug/m3	1	11/30/2018 7:14:00 PM
Bromoform	< 1.6	1.6	ug/m3	1	11/30/2018 7:14:00 PM
Bromomethane	< 0.58	0.58	ug/m3	1	11/30/2018 7:14:00 PM
Carbon disulfide	< 0.47	0.47	ug/m3	1	11/30/2018 7:14:00 PM
Carbon tetrachloride	0.63	0.19	ug/m3	1	11/30/2018 7:14:00 PM
Chlorobenzene	< 0.69	0.69	ug/m3	1	11/30/2018 7:14:00 PM
Chloroethane	< 0.40	0.40	ug/m3	1	11/30/2018 7:14:00 PM
Chloroform	< 0.73	0.73	ug/m3	1	11/30/2018 7:14:00 PM
Chloromethane	0.93	0.31	ug/m3	1	11/30/2018 7:14:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16	ug/m3	1	11/30/2018 7:14:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68	ug/m3	1	11/30/2018 7:14:00 PM
Cyclohexane	< 0.52	0.52	ug/m3	1	11/30/2018 7:14:00 PM
Dibromochloromethane	< 1.3	1.3	ug/m3	1	11/30/2018 7:14:00 PM
Ethyl acetate	0.50		J ug/m3	1	11/30/2018 7:14:00 PM
Ethylbenzene	< 0.65	0.65	ug/m3	1	11/30/2018 7:14:00 PM
Freon 11	1.6	0.84	ug/m3	1	11/30/2018 7:14:00 PM
Freon 113	< 1.1	1.1	ug/m3	1	11/30/2018 7:14:00 PM
Freon 114	< 1.0	1.0	ug/m3	1	11/30/2018 7:14:00 PM

Qualifiers:

- ** Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected

Date: 05-Dec-18

- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: OS-1-20181126

 Lab Order:
 C1811055
 Tag Number:
 347,1167

 Project:
 3130 Monroe Ave
 Collection Date:
 11/26/2018

Lab ID: C1811055-002A **Matrix:** AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC	C-DCE-1,1DCE	то	-15			Analyst: RJP
Freon 12	2.8	0.74		ug/m3	1	11/30/2018 7:14:00 PM
Heptane	< 0.61	0.61		ug/m3	1	11/30/2018 7:14:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/30/2018 7:14:00 PM
Hexane	0.42	0.53	J	ug/m3	1	11/30/2018 7:14:00 PM
Isopropyl alcohol	2.2	0.37		ug/m3	1	11/30/2018 7:14:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	11/30/2018 7:14:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/30/2018 7:14:00 PM
Methyl Ethyl Ketone	< 0.88	0.88		ug/m3	1	11/30/2018 7:14:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/30/2018 7:14:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	11/30/2018 7:14:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	11/30/2018 7:14:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	11/30/2018 7:14:00 PM
Propylene	< 0.26	0.26		ug/m3	1	11/30/2018 7:14:00 PM
Styrene	< 0.64	0.64		ug/m3	1	11/30/2018 7:14:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	11/30/2018 7:14:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	11/30/2018 7:14:00 PM
Toluene	2.1	0.57		ug/m3	1	11/30/2018 7:14:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	11/30/2018 7:14:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	11/30/2018 7:14:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	11/30/2018 7:14:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	11/30/2018 7:14:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	11/30/2018 7:14:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	11/30/2018 7:14:00 PM

Qualifiers:

Date: 05-Dec-18

^{**} Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

[.] Results reported are not blank corrected

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-2-20181126

 Lab Order:
 C1811055
 Tag Number:
 195,271

 Project:
 3130 Monroe Ave
 Collection Date:
 11/26/2018

Lab ID: C1811055-003A **Matrix:** AIR

Analyses	Result	**Limit Qua	l Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-	VC-DCE-1,1DCE	TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82	ug/m3	1	11/30/2018 7:54:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/m3	1	11/30/2018 7:54:00 PM
1,1,2-Trichloroethane	< 0.82	0.82	ug/m3	1	11/30/2018 7:54:00 PM
1,1-Dichloroethane	< 0.61	0.61	ug/m3	1	11/30/2018 7:54:00 PM
1,1-Dichloroethene	< 0.16	0.16	ug/m3	1	11/30/2018 7:54:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1	ug/m3	1	11/30/2018 7:54:00 PM
1,2,4-Trimethylbenzene	0.54	0.74 J	ug/m3	1	11/30/2018 7:54:00 PM
1,2-Dibromoethane	< 1.2	1.2	ug/m3	1	11/30/2018 7:54:00 PM
1,2-Dichlorobenzene	< 0.90	0.90	ug/m3	1	11/30/2018 7:54:00 PM
1,2-Dichloroethane	< 0.61	0.61	ug/m3	1	11/30/2018 7:54:00 PM
1,2-Dichloropropane	< 0.69	0.69	ug/m3	1	11/30/2018 7:54:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74	ug/m3	1	11/30/2018 7:54:00 PM
1,3-butadiene	< 0.33	0.33	ug/m3	1	11/30/2018 7:54:00 PM
1,3-Dichlorobenzene	< 0.90	0.90	ug/m3	1	11/30/2018 7:54:00 PM
1,4-Dichlorobenzene	< 0.90	0.90	ug/m3	1	11/30/2018 7:54:00 PM
1,4-Dioxane	< 1.1	1.1	ug/m3	1	11/30/2018 7:54:00 PM
2,2,4-trimethylpentane	< 0.70	0.70	ug/m3	1	11/30/2018 7:54:00 PM
4-ethyltoluene	< 0.74	0.74	ug/m3	1	11/30/2018 7:54:00 PM
Acetone	39000	6900	ug/m3	9720	12/4/2018 6:13:00 PM
Allyl chloride	< 0.47	0.47	ug/m3	1	11/30/2018 7:54:00 PM
Benzene	1.2	0.48	ug/m3	1	11/30/2018 7:54:00 PM
Benzyl chloride	< 0.86	0.86	ug/m3	1	11/30/2018 7:54:00 PM
Bromodichloromethane	< 1.0	1.0	ug/m3	1	11/30/2018 7:54:00 PM
Bromoform	< 1.6	1.6	ug/m3	1	11/30/2018 7:54:00 PM
Bromomethane	< 0.58	0.58	ug/m3	1	11/30/2018 7:54:00 PM
Carbon disulfide	< 0.47	0.47	ug/m3	1	11/30/2018 7:54:00 PM
Carbon tetrachloride	0.57	0.19	ug/m3	1	11/30/2018 7:54:00 PM
Chlorobenzene	< 0.69	0.69	ug/m3	1	11/30/2018 7:54:00 PM
Chloroethane	< 0.40	0.40	ug/m3	1	11/30/2018 7:54:00 PM
Chloroform	1.5	0.73	ug/m3	1	11/30/2018 7:54:00 PM
Chloromethane	1.1	0.31	ug/m3	1	11/30/2018 7:54:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16	ug/m3	1	11/30/2018 7:54:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68	ug/m3	1	11/30/2018 7:54:00 PM
Cyclohexane	< 0.52	0.52	ug/m3	1	11/30/2018 7:54:00 PM
Dibromochloromethane	< 1.3	1.3	ug/m3	1	11/30/2018 7:54:00 PM
Ethyl acetate	420	130	ug/m3	243	12/4/2018 4:59:00 PM
Ethylbenzene	< 0.65	0.65	ug/m3	1	11/30/2018 7:54:00 PM
Freon 11	1.3	0.84	ug/m3	1	11/30/2018 7:54:00 PM
Freon 113	< 1.1	1.1	ug/m3	1	11/30/2018 7:54:00 PM
Freon 114	< 1.0	1.0	ug/m3	1	11/30/2018 7:54:00 PM

Qualifiers:

Date: 05-Dec-18

^{**} Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

[.] Results reported are not blank corrected

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-2-20181126

 Lab Order:
 C1811055
 Tag Number:
 195,271

 Project:
 3130 Monroe Ave
 Collection Date:
 11/26/2018

Lab ID: C1811055-003A **Matrix:** AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC	-DCE-1,1DCE	TO-15			Analyst: RJP	
Freon 12	2.2	0.74		ug/m3	1	11/30/2018 7:54:00 PM
Heptane	0.41	0.61	J	ug/m3	1	11/30/2018 7:54:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/30/2018 7:54:00 PM
Hexane	< 0.53	0.53		ug/m3	1	11/30/2018 7:54:00 PM
Isopropyl alcohol	4200	880		ug/m3	2430	12/4/2018 5:36:00 PM
m&p-Xylene	0.87	1.3	J	ug/m3	1	11/30/2018 7:54:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/30/2018 7:54:00 PM
Methyl Ethyl Ketone	14	8.8		ug/m3	10	12/1/2018 4:26:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/30/2018 7:54:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	11/30/2018 7:54:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	11/30/2018 7:54:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	11/30/2018 7:54:00 PM
Propylene	< 0.26	0.26		ug/m3	1	11/30/2018 7:54:00 PM
Styrene	< 0.64	0.64		ug/m3	1	11/30/2018 7:54:00 PM
Tetrachloroethylene	160	10		ug/m3	10	12/1/2018 4:26:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	11/30/2018 7:54:00 PM
Toluene	14	5.7		ug/m3	10	12/1/2018 4:26:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	11/30/2018 7:54:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	11/30/2018 7:54:00 PM
Trichloroethene	1.3	0.16		ug/m3	1	11/30/2018 7:54:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	11/30/2018 7:54:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	11/30/2018 7:54:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	11/30/2018 7:54:00 PM

Qualifiers: ** Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected

Date: 05-Dec-18

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

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*** By signing Centek Labs Chain of Custody, you are accepting Centek Labs Terms and Conditions listed on the reverse side. ***Chain of Custody must be completed in full. Lack of any missing information will affect your Turn Around Times (TAT)

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-1-20190415

 Lab Order:
 C1904047
 Tag Number: 243,337

 Project:
 3130 Monroe Ave
 Collection Date: 4/15/2019

Lab ID: C1904047-001A **Matrix:** AIR

Analyses	Result	**Limit	Qual Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-V0	C-DCE-1,1DCE	TO-	15		Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82	ug/m3	1	4/20/2019 7:25:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/m3	1	4/20/2019 7:25:00 AM
1,1,2-Trichloroethane	< 0.82	0.82	ug/m3	1	4/20/2019 7:25:00 AM
1,1-Dichloroethane	< 0.61	0.61	ug/m3	1	4/20/2019 7:25:00 AM
1,1-Dichloroethene	< 0.16	0.16	ug/m3	1	4/20/2019 7:25:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1	ug/m3	1	4/20/2019 7:25:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74	ug/m3	1	4/20/2019 7:25:00 AM
1,2-Dibromoethane	< 1.2	1.2	ug/m3	1	4/20/2019 7:25:00 AM
1,2-Dichlorobenzene	< 0.90	0.90	ug/m3	1	4/20/2019 7:25:00 AM
1,2-Dichloroethane	< 0.61	0.61	ug/m3	1	4/20/2019 7:25:00 AM
1,2-Dichloropropane	< 0.69	0.69	ug/m3	1	4/20/2019 7:25:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74	ug/m3	1	4/20/2019 7:25:00 AM
1,3-butadiene	< 0.33	0.33	ug/m3	1	4/20/2019 7:25:00 AM
1,3-Dichlorobenzene	< 0.90	0.90	ug/m3	1	4/20/2019 7:25:00 AM
1,4-Dichlorobenzene	< 0.90	0.90	ug/m3	1	4/20/2019 7:25:00 AM
1,4-Dioxane	< 1.1	1.1	ug/m3	1	4/20/2019 7:25:00 AM
2,2,4-trimethylpentane	< 0.70	0.70	ug/m3	1	4/20/2019 7:25:00 AM
4-ethyltoluene	< 0.74	0.74	ug/m3	1	4/20/2019 7:25:00 AM
Acetone	3200	570	ug/m3	810	4/22/2019 6:28:00 PM
Allyl chloride	< 0.47	0.47	ug/m3	1	4/20/2019 7:25:00 AM
Benzene	0.54	0.48	ug/m3	1	4/20/2019 7:25:00 AM
Benzyl chloride	< 0.86	0.86	ug/m3	1	4/20/2019 7:25:00 AM
Bromodichloromethane	< 1.0	1.0	ug/m3	1	4/20/2019 7:25:00 AM
Bromoform	< 1.6	1.6	ug/m3	1	4/20/2019 7:25:00 AM
Bromomethane	< 0.58	0.58	ug/m3	1	4/20/2019 7:25:00 AM
Carbon disulfide	< 0.47	0.47	ug/m3	1	4/20/2019 7:25:00 AM
Carbon tetrachloride	0.57	0.19	ug/m3	1	4/20/2019 7:25:00 AM
Chlorobenzene	< 0.69	0.69	ug/m3	1	4/20/2019 7:25:00 AM
Chloroethane	< 0.40	0.40	ug/m3	1	4/20/2019 7:25:00 AM
Chloroform	0.59	0.73	J ug/m3	1	4/20/2019 7:25:00 AM
Chloromethane	1.1	0.31	ug/m3	1	4/20/2019 7:25:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16	ug/m3	1	4/20/2019 7:25:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68	ug/m3	1	4/20/2019 7:25:00 AM
Cyclohexane	< 0.52	0.52	ug/m3	1	4/20/2019 7:25:00 AM
Dibromochloromethane	< 1.3	1.3	ug/m3	1	4/20/2019 7:25:00 AM
Ethyl acetate	110	50	ug/m3	90	4/22/2019 10:57:00 AM
Ethylbenzene	< 0.65	0.65	ug/m3	1	4/20/2019 7:25:00 AM
Freon 11	1.6	0.84	ug/m3	1	4/20/2019 7:25:00 AM
Freon 113	< 1.1	1.1	ug/m3	1	4/20/2019 7:25:00 AM
Freon 114	< 1.0	1.0	ug/m3	1	4/20/2019 7:25:00 AM

Qualifiers:

Date: 23-Apr-19

^{**} Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

[.] Results reported are not blank corrected

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-1-20190415

Lab Order: C1904047 Tag Number: 243,337

 Project:
 3130 Monroe Ave
 Collection Date: 4/15/2019

 Lab ID:
 C1904047-001A
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC	-DCE-1,1DCE	TO)-15			Analyst: RJP
Freon 12	2.9	0.74		ug/m3	1	4/20/2019 7:25:00 AM
Heptane	< 0.61	0.61		ug/m3	1	4/20/2019 7:25:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/20/2019 7:25:00 AM
Hexane	< 0.53	0.53		ug/m3	1	4/20/2019 7:25:00 AM
Isopropyl alcohol	190	34		ug/m3	90	4/22/2019 10:57:00 AM
m&p-Xylene	0.69	1.3	J	ug/m3	1	4/20/2019 7:25:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	4/20/2019 7:25:00 AM
Methyl Ethyl Ketone	1.1	0.88		ug/m3	1	4/20/2019 7:25:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	4/20/2019 7:25:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/20/2019 7:25:00 AM
Methylene chloride	1.9	0.52		ug/m3	1	4/20/2019 7:25:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	4/20/2019 7:25:00 AM
Propylene	< 0.26	0.26		ug/m3	1	4/20/2019 7:25:00 AM
Styrene	< 0.64	0.64		ug/m3	1	4/20/2019 7:25:00 AM
Tetrachloroethylene	8.5	1.0		ug/m3	1	4/20/2019 7:25:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	4/20/2019 7:25:00 AM
Toluene	2.3	0.57		ug/m3	1	4/20/2019 7:25:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/20/2019 7:25:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/20/2019 7:25:00 AM
Trichloroethene	0.38	0.16		ug/m3	1	4/20/2019 7:25:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/20/2019 7:25:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/20/2019 7:25:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	4/20/2019 7:25:00 AM

Qualifiers: ** Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

 $JN \quad \ Non-routine \ analyte. \ Quantitation \ estimated.$

S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected

Date: 23-Apr-19

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-2-20190415

 Lab Order:
 C1904047
 Tag Number:
 539,258

 Project:
 3130 Monroe Ave
 Collection Date:
 4/15/2019

Lab ID: C1904047-002A **Matrix:** AIR

Analyses	Result	**Limit Qua	l Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-\	/C-DCE-1,1DCE	TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82	ug/m3	1	4/20/2019 6:43:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/m3	1	4/20/2019 6:43:00 AM
1,1,2-Trichloroethane	< 0.82	0.82	ug/m3	1	4/20/2019 6:43:00 AM
1,1-Dichloroethane	< 0.61	0.61	ug/m3	1	4/20/2019 6:43:00 AM
1,1-Dichloroethene	< 0.16	0.16	ug/m3	1	4/20/2019 6:43:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1	ug/m3	1	4/20/2019 6:43:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74	ug/m3	1	4/20/2019 6:43:00 AM
1,2-Dibromoethane	< 1.2	1.2	ug/m3	1	4/20/2019 6:43:00 AM
1,2-Dichlorobenzene	< 0.90	0.90	ug/m3	1	4/20/2019 6:43:00 AM
1,2-Dichloroethane	< 0.61	0.61	ug/m3	1	4/20/2019 6:43:00 AM
1,2-Dichloropropane	< 0.69	0.69	ug/m3	1	4/20/2019 6:43:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74	ug/m3	1	4/20/2019 6:43:00 AM
1,3-butadiene	< 0.33	0.33	ug/m3	1	4/20/2019 6:43:00 AM
1,3-Dichlorobenzene	< 0.90	0.90	ug/m3	1	4/20/2019 6:43:00 AM
1,4-Dichlorobenzene	< 0.90	0.90	ug/m3	1	4/20/2019 6:43:00 AM
1,4-Dioxane	< 1.1	1.1	ug/m3	1	4/20/2019 6:43:00 AM
2,2,4-trimethylpentane	< 0.70	0.70	ug/m3	1	4/20/2019 6:43:00 AM
4-ethyltoluene	< 0.74	0.74	ug/m3	1	4/20/2019 6:43:00 AM
Acetone	24000	5200	ug/m3	7290	4/22/2019 5:51:00 PM
Allyl chloride	< 0.47	0.47	ug/m3	1	4/20/2019 6:43:00 AM
Benzene	0.99	0.48	ug/m3	1	4/20/2019 6:43:00 AM
Benzyl chloride	< 0.86	0.86	ug/m3	1	4/20/2019 6:43:00 AM
Bromodichloromethane	< 1.0	1.0	ug/m3	1	4/20/2019 6:43:00 AM
Bromoform	< 1.6	1.6	ug/m3	1	4/20/2019 6:43:00 AM
Bromomethane	< 0.58	0.58	ug/m3	1	4/20/2019 6:43:00 AM
Carbon disulfide	< 0.47	0.47	ug/m3	1	4/20/2019 6:43:00 AM
Carbon tetrachloride	0.57	0.19	ug/m3	1	4/20/2019 6:43:00 AM
Chlorobenzene	< 0.69	0.69	ug/m3	1	4/20/2019 6:43:00 AM
Chloroethane	< 0.40	0.40	ug/m3	1	4/20/2019 6:43:00 AM
Chloroform	3.8	0.73	ug/m3	1	4/20/2019 6:43:00 AM
Chloromethane	< 0.31	0.31	ug/m3	1	4/20/2019 6:43:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16	ug/m3	1	4/20/2019 6:43:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68	ug/m3	1	4/20/2019 6:43:00 AM
Cyclohexane	< 0.52	0.52	ug/m3	1	4/20/2019 6:43:00 AM
Dibromochloromethane	< 1.3	1.3	ug/m3	1	4/20/2019 6:43:00 AM
Ethyl acetate	1200	400	ug/m3	729	4/22/2019 5:14:00 PM
Ethylbenzene	1.3	0.65	ug/m3	1	4/20/2019 6:43:00 AM
Freon 11	1.5	0.84	ug/m3	1	4/20/2019 6:43:00 AM
Freon 113	< 1.1	1.1	ug/m3	1	4/20/2019 6:43:00 AM
Freon 114	< 1.0	1.0	ug/m3	1	4/20/2019 6:43:00 AM

Qualifiers:

Date: 23-Apr-19

^{**} Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

[.] Results reported are not blank corrected

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-2-20190415

Lab Order:C1904047Tag Number: 539,258Project:3130 Monroe AveCollection Date: 4/15/2019

Lab ID: C1904047-002A **Matrix:** AIR

Freon 12 2.4 0.74 ug/m3 1 4/20/2019 6:43:00 Heptane 0.74 0.61 ug/m3 1 4/20/2019 6:43:00 Hexachloro-1,3-butadiene < 1.6 1.6 ug/m3 1 4/20/2019 6:43:00 Hexane < 0.53 0.53 ug/m3 1 4/20/2019 6:43:00 Isopropyl alcohol 2000 270 ug/m3 729 4/22/2019 5:14:00 m&p-Xylene 4.1 1.3 ug/m3 1 4/20/2019 6:43:00 Methyl Butyl Ketone < 1.2 1.2 ug/m3 1 4/20/2019 6:43:00 Methyl Ethyl Ketone 5.3 0.88 ug/m3 1 4/20/2019 6:43:00 Methyl tert-butyl ether 0.90 1.2 J ug/m3 1 4/20/2019 6:43:00 Methyl tert-butyl ether < 0.54 0.54 ug/m3 1 4/20/2019 6:43:00 Methylene chloride 1.5 0.52 ug/m3 1 4/20/2019 6:43:00 O-Xylene 1.2 0.65 ug/m3 1	Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
Heptane 0.74 0.61 ug/m3 1 4/20/2019 6:43:00 Hexachloro-1,3-butadiene < 1.6	1UG/M3 W/ 0.2UG/M3 CT-TCE-VC	C-DCE-1,1DCE	то	-15			Analyst: RJP
Hexachloro-1,3-butadiene < 1.6 ug/m3 1 4/20/2019 6:43:00 Hexane < 0.53	Freon 12	2.4	0.74		ug/m3	1	4/20/2019 6:43:00 AM
Hexane < 0.53 0.53 ug/m3 1 4/20/2019 6:43:00 Isopropyl alcohol 2000 270 ug/m3 729 4/22/2019 5:14:00 m&p-Xylene 4.1 1.3 ug/m3 1 4/20/2019 6:43:00 Methyl Butyl Ketone < 1.2	Heptane	0.74	0.61		ug/m3	1	4/20/2019 6:43:00 AM
Sopropyl alcohol 2000 270 ug/m3 729 4/22/2019 5:14:00 m&p-Xylene 4.1 1.3 ug/m3 1 4/20/2019 6:43:00 Methyl Butyl Ketone < 1.2 1.2 ug/m3 1 4/20/2019 6:43:00 Methyl Ethyl Ketone 5.3 0.88 ug/m3 1 4/20/2019 6:43:00 Methyl Isobutyl Ketone 0.90 1.2 J ug/m3 1 4/20/2019 6:43:00 Methyl tert-butyl ether < 0.54 0.54 ug/m3 1 4/20/2019 6:43:00 Methyl tert-butyl ether < 0.54 0.54 ug/m3 1 4/20/2019 6:43:00 Methylene chloride 1.5 0.52 ug/m3 1 4/20/2019 6:43:00 O-Xylene 1.2 0.65 ug/m3 1 4/20/2019 6:43:00 O-Xylene 1.2 0.65 ug/m3 1 4/20/2019 6:43:00 O-Xylene 0.51 0.64 J ug/m3 1 4/20/2019 6:43:00 Styrene 0.51 0.64 J ug/m3 1 4/20/2019 6:43:00 Tetrachloroethylene 4.4 1.0 ug/m3 1 4/20/2019 6:43:00 Tetrahydrofuran < 0.44 0.44 ug/m3 1 4/20/2019 6:43:00 Toluene 18 0.57 ug/m3 1 4/20/2019 6:43:00 trans-1,2-Dichloroethene < 0.59 0.59 ug/m3 1 4/20/2019 6:43:00 trans-1,3-Dichloropropene < 0.68 0.68 ug/m3 1 4/20/2019 6:43:00 Vinyl acetate < 0.53 0.53 ug/m3 1 4/20/2019 6:43:00 Vinyl Bromide < 0.66 0.66 ug/m3 1 4/20/2019 6:43:00 Vinyl Bromide < 0.66 0.66 ug/m3 1 4/20/2019 6:43:00 Vinyl Bromide < 0.66 0.66 ug/m3 1 4/20/2019 6:43:00 Vinyl Bromide < 0.66 0.66 ug/m3 1 4/20/2019 6:43:00 Vinyl Bromide < 0.66 0.66 ug/m3 1 4/20/2019 6:43:00 Vinyl Bromide < 0.66 0.66 ug/m3 1 4/20/2019 6:43:00 Vinyl Bromide < 0.66 0.66 ug/m3 1 4/20/2019 6:43:00 Vinyl Bromide < 0.66 0.66 ug/m3 1 4/20/2019 6:43:00 Vinyl Bromide < 0.66 0.66 ug/m3 1 4/20/2019 6:43:00 Vinyl Bromide < 0.66 0.66 ug/m3 1 4/20/2019 6:43:00 Vinyl Bromide < 0.66 0.66 ug/m3 1 4/20/2019 6:43:00 Vinyl Bromide < 0.66 0.66 ug/m3 1 4/20/2019 6:43:00 Vinyl Bromide < 0.66 0.66 ug/m3 1 4/20/2019 6:43:00 Vinyl Bromide < 0.66 0.66 ug/m3	Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/20/2019 6:43:00 AM
m&p-Xylene 4.1 1.3 ug/m3 1 4/20/2019 6:43:00 Methyl Butyl Ketone < 1.2	Hexane	< 0.53	0.53		ug/m3	1	4/20/2019 6:43:00 AM
Methyl Butyl Ketone < 1.2 1.2 ug/m3 1 4/20/2019 6:43:00 Methyl Ethyl Ketone 5.3 0.88 ug/m3 1 4/20/2019 6:43:00 Methyl Isobutyl Ketone 0.90 1.2 J ug/m3 1 4/20/2019 6:43:00 Methyl tert-butyl ether < 0.54	Isopropyl alcohol	2000	270		ug/m3	729	4/22/2019 5:14:00 PM
Methyl Ethyl Ketone 5.3 0.88 ug/m3 1 4/20/2019 6:43:00 Methyl Isobutyl Ketone 0.90 1.2 J ug/m3 1 4/20/2019 6:43:00 Methyl tert-butyl ether < 0.54	m&p-Xylene	4.1	1.3		ug/m3	1	4/20/2019 6:43:00 AM
Methyl Isobutyl Ketone 0.90 1.2 J ug/m3 1 4/20/2019 6:43:00 Methyl tert-butyl ether < 0.54	Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	4/20/2019 6:43:00 AM
Methyl tert-butyl ether < 0.54 0.54 ug/m3 1 4/20/2019 6:43:00 Methylene chloride 1.5 0.52 ug/m3 1 4/20/2019 6:43:00 o-Xylene 1.2 0.65 ug/m3 1 4/20/2019 6:43:00 Propylene < 0.26	Methyl Ethyl Ketone	5.3	0.88		ug/m3	1	4/20/2019 6:43:00 AM
Methylene chloride 1.5 0.52 ug/m3 1 4/20/2019 6:43:00 o-Xylene 1.2 0.65 ug/m3 1 4/20/2019 6:43:00 Propylene < 0.26	Methyl Isobutyl Ketone	0.90	1.2	J	ug/m3	1	4/20/2019 6:43:00 AM
o-Xylene 1.2 0.65 ug/m3 1 4/20/2019 6:43:00 Propylene <0.26 0.26 ug/m3 1 4/20/2019 6:43:00 Styrene 0.51 0.64 J ug/m3 1 4/20/2019 6:43:00 Tetrachloroethylene 4.4 1.0 ug/m3 1 4/20/2019 6:43:00 Tetrahydrofuran <0.44 0.44 ug/m3 1 4/20/2019 6:43:00 Toluene 18 0.57 ug/m3 1 4/20/2019 6:43:00 trans-1,2-Dichloroethene <0.59 0.59 ug/m3 1 4/20/2019 6:43:00 trans-1,3-Dichloropropene <0.68 0.68 ug/m3 1 4/20/2019 6:43:00 Trichloroethene 0.27 0.16 ug/m3 1 4/20/2019 6:43:00 Vinyl acetate <0.53 0.53 ug/m3 1 4/20/2019 6:43:00 Vinyl Bromide <0.66 0.66 ug/m3 1 4/20/2019 6:43:00	Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/20/2019 6:43:00 AM
Propylene < 0.26 0.26 ug/m3 1 4/20/2019 6:43:00 Styrene 0.51 0.64 J ug/m3 1 4/20/2019 6:43:00 Tetrachloroethylene 4.4 1.0 ug/m3 1 4/20/2019 6:43:00 Tetrahydrofuran < 0.44	Methylene chloride	1.5	0.52		ug/m3	1	4/20/2019 6:43:00 AM
Styrene 0.51 0.64 J ug/m3 1 4/20/2019 6:43:00 Tetrachloroethylene 4.4 1.0 ug/m3 1 4/20/2019 6:43:00 Tetrahydrofuran < 0.44	o-Xylene	1.2	0.65		ug/m3	1	4/20/2019 6:43:00 AM
Tetrachloroethylene 4.4 1.0 ug/m3 1 4/20/2019 6:43:00 Tetrahydrofuran < 0.44	Propylene	< 0.26	0.26		ug/m3	1	4/20/2019 6:43:00 AM
Tetrahydrofuran < 0.44 0.44 ug/m3 1 4/20/2019 6:43:00 Toluene 18 0.57 ug/m3 1 4/20/2019 6:43:00 trans-1,2-Dichloroethene < 0.59	Styrene	0.51	0.64	J	ug/m3	1	4/20/2019 6:43:00 AM
Toluene 18 0.57 ug/m3 1 4/20/2019 6:43:00 trans-1,2-Dichloroethene < 0.59	Tetrachloroethylene	4.4	1.0		ug/m3	1	4/20/2019 6:43:00 AM
trans-1,2-Dichloroethene < 0.59 0.59 ug/m3 1 4/20/2019 6:43:00 trans-1,3-Dichloropropene < 0.68 0.68 ug/m3 1 4/20/2019 6:43:00 Trichloroethene 0.27 0.16 ug/m3 1 4/20/2019 6:43:00 Vinyl acetate < 0.53 0.53 ug/m3 1 4/20/2019 6:43:00 Vinyl Bromide < 0.66 0.66 ug/m3 1 4/20/2019 6:43:00	Tetrahydrofuran	< 0.44	0.44		ug/m3	1	4/20/2019 6:43:00 AM
trans-1,3-Dichloropropene < 0.68	Toluene	18	0.57		ug/m3	1	4/20/2019 6:43:00 AM
Trichloroethene 0.27 0.16 ug/m3 1 4/20/2019 6:43:00 Vinyl acetate < 0.53	trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/20/2019 6:43:00 AM
Vinyl acetate < 0.53 0.53 ug/m3 1 4/20/2019 6:43:00 Vinyl Bromide < 0.66 0.66 ug/m3 1 4/20/2019 6:43:00	trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/20/2019 6:43:00 AM
Vinyl Bromide < 0.66 0.66 ug/m3 1 4/20/2019 6:43:00	Trichloroethene	0.27	0.16		ug/m3	1	4/20/2019 6:43:00 AM
,	Vinyl acetate	< 0.53	0.53		ug/m3	1	4/20/2019 6:43:00 AM
Vinyl chloride < 0.10 0.10 ug/m3 1 4/20/2019 6:43:00	Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/20/2019 6:43:00 AM
	Vinyl chloride	< 0.10	0.10		ug/m3	1	4/20/2019 6:43:00 AM

Qualifiers: ** Qu

** Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected

Date: 23-Apr-19

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: OS-1-20190415

Lab Order:C1904047Tag Number: 458,382Project:3130 Monroe AveCollection Date: 4/15/2019

Lab ID: C1904047-003A **Matrix:** AIR

Analyses	Result	**Limit	Qual U	nits	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-V	/C-DCE-1,1DCE	TO-	-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82	u	g/m3	1	4/20/2019 6:00:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0	u	g/m3	1	4/20/2019 6:00:00 AM
1,1,2-Trichloroethane	< 0.82	0.82	u	g/m3	1	4/20/2019 6:00:00 AM
1,1-Dichloroethane	< 0.61	0.61	u	g/m3	1	4/20/2019 6:00:00 AM
1,1-Dichloroethene	< 0.16	0.16	u	g/m3	1	4/20/2019 6:00:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1	u	g/m3	1	4/20/2019 6:00:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74	u	g/m3	1	4/20/2019 6:00:00 AM
1,2-Dibromoethane	< 1.2	1.2	u	g/m3	1	4/20/2019 6:00:00 AM
1,2-Dichlorobenzene	< 0.90	0.90	u	g/m3	1	4/20/2019 6:00:00 AM
1,2-Dichloroethane	< 0.61	0.61	u	g/m3	1	4/20/2019 6:00:00 AM
1,2-Dichloropropane	< 0.69	0.69	u	g/m3	1	4/20/2019 6:00:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74	u	g/m3	1	4/20/2019 6:00:00 AM
1,3-butadiene	< 0.33	0.33	u	g/m3	1	4/20/2019 6:00:00 AM
1,3-Dichlorobenzene	< 0.90	0.90	u	g/m3	1	4/20/2019 6:00:00 AM
1,4-Dichlorobenzene	< 0.90	0.90	u	g/m3	1	4/20/2019 6:00:00 AM
1,4-Dioxane	< 1.1	1.1	u	g/m3	1	4/20/2019 6:00:00 AM
2,2,4-trimethylpentane	< 0.70	0.70	u	g/m3	1	4/20/2019 6:00:00 AM
4-ethyltoluene	< 0.74	0.74	u	g/m3	1	4/20/2019 6:00:00 AM
Acetone	54	7.1	u	g/m3	10	4/22/2019 2:23:00 PM
Allyl chloride	< 0.47	0.47	u	g/m3	1	4/20/2019 6:00:00 AM
Benzene	0.42	0.48	J u	g/m3	1	4/20/2019 6:00:00 AM
Benzyl chloride	< 0.86	0.86	u	g/m3	1	4/20/2019 6:00:00 AM
Bromodichloromethane	< 1.0	1.0	u	g/m3	1	4/20/2019 6:00:00 AM
Bromoform	< 1.6	1.6	u	g/m3	1	4/20/2019 6:00:00 AM
Bromomethane	< 0.58	0.58	u	g/m3	1	4/20/2019 6:00:00 AM
Carbon disulfide	< 0.47	0.47	u	g/m3	1	4/20/2019 6:00:00 AM
Carbon tetrachloride	0.57	0.19	u	g/m3	1	4/20/2019 6:00:00 AM
Chlorobenzene	< 0.69	0.69	u	g/m3	1	4/20/2019 6:00:00 AM
Chloroethane	< 0.40	0.40	u	g/m3	1	4/20/2019 6:00:00 AM
Chloroform	< 0.73	0.73	u	g/m3	1	4/20/2019 6:00:00 AM
Chloromethane	1.2	0.31	u	g/m3	1	4/20/2019 6:00:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16	u	g/m3	1	4/20/2019 6:00:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68	u	g/m3	1	4/20/2019 6:00:00 AM
Cyclohexane	< 0.52	0.52	u	g/m3	1	4/20/2019 6:00:00 AM
Dibromochloromethane	< 1.3	1.3	u	g/m3	1	4/20/2019 6:00:00 AM
Ethyl acetate	1.4	0.54	u	g/m3	1	4/20/2019 6:00:00 AM
Ethylbenzene	< 0.65	0.65	u	g/m3	1	4/20/2019 6:00:00 AM
Freon 11	1.9	0.84	u	g/m3	1	4/20/2019 6:00:00 AM
Freon 113	0.84	1.1		g/m3	1	4/20/2019 6:00:00 AM
Freon 114	< 1.0	1.0		g/m3	1	4/20/2019 6:00:00 AM

Qualifiers:

Date: 23-Apr-19

^{**} Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

[.] Results reported are not blank corrected

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: OS-1-20190415

Lab Order:C1904047Tag Number: 458,382Project:3130 Monroe AveCollection Date: 4/15/2019

Lab ID: C1904047-003A **Matrix:** AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
IUG/M3 W/ 0.2UG/M3 CT-TCE-VC	-DCE-1,1DCE	TO-	TO-15			Analyst: RJP
Freon 12	3.1	0.74		ug/m3	1	4/20/2019 6:00:00 AM
Heptane	< 0.61	0.61		ug/m3	1	4/20/2019 6:00:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/20/2019 6:00:00 AM
Hexane	< 0.53	0.53		ug/m3	1	4/20/2019 6:00:00 AM
Isopropyl alcohol	3.7	0.37		ug/m3	1	4/20/2019 6:00:00 AM
m&p-Xylene	< 1.3	1.3		ug/m3	1	4/20/2019 6:00:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	4/20/2019 6:00:00 AM
Methyl Ethyl Ketone	0.83	0.88	J	ug/m3	1	4/20/2019 6:00:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	4/20/2019 6:00:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/20/2019 6:00:00 AM
Methylene chloride	1.1	0.52		ug/m3	1	4/20/2019 6:00:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	4/20/2019 6:00:00 AM
Propylene	< 0.26	0.26		ug/m3	1	4/20/2019 6:00:00 AM
Styrene	< 0.64	0.64		ug/m3	1	4/20/2019 6:00:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	4/20/2019 6:00:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	4/20/2019 6:00:00 AM
Toluene	0.68	0.57		ug/m3	1	4/20/2019 6:00:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/20/2019 6:00:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/20/2019 6:00:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	4/20/2019 6:00:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/20/2019 6:00:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/20/2019 6:00:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	4/20/2019 6:00:00 AM

Qualifiers:

Date: 23-Apr-19

^{**} Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

 $JN \quad \ Non-routine \ analyte. \ Quantitation \ estimated.$

S Spike Recovery outside accepted recovery limits

[.] Results reported are not blank corrected

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection



Appendix C Groundwater Laboratory Data



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave

Sample Identifier: MW-1

Lab Sample ID:170791-01Date Sampled:3/2/2017Matrix:GroundwaterDate Received:3/3/2017

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier Date Analyzed	
1,1,1-Trichloroethane	< 2.00	ug/L	3/8/2017 17:23	
1,1,2,2-Tetrachloroethane	< 2.00	ug/L	3/8/2017 17:23	
1,1,2-Trichloroethane	< 2.00	ug/L	3/8/2017 17:23	
1,1-Dichloroethane	< 2.00	ug/L	3/8/2017 17:23	
1,1-Dichloroethene	< 2.00	ug/L	3/8/2017 17:23	
1,2,3-Trichlorobenzene	< 5.00	ug/L	3/8/2017 17:23	
1,2,4-Trichlorobenzene	< 5.00	ug/L	3/8/2017 17:23	
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	3/8/2017 17:23	
1,2-Dibromoethane	< 2.00	ug/L	3/8/2017 17:23	
1,2-Dichlorobenzene	< 2.00	ug/L	3/8/2017 17:23	
1,2-Dichloroethane	< 2.00	ug/L	3/8/2017 17:23	
1,2-Dichloropropane	< 2.00	ug/L	3/8/2017 17:23	
1,3-Dichlorobenzene	< 2.00	ug/L	3/8/2017 17:23	
1,4-Dichlorobenzene	< 2.00	ug/L	3/8/2017 17:23	
1,4-dioxane	< 20.0	ug/L	3/8/2017 17:23	
2-Butanone	< 10.0	ug/L	3/8/2017 17:23	
2-Hexanone	< 5.00	ug/L	3/8/2017 17:23	
4-Methyl-2-pentanone	< 5.00	ug/L	3/8/2017 17:23	
Acetone	< 10.0	ug/L	3/8/2017 17:23	
Benzene	< 1.00	ug/L	3/8/2017 17:23	
Bromochloromethane	< 5.00	ug/L	3/8/2017 17:23	
Bromodichloromethane	< 2.00	ug/L	3/8/2017 17:23	
Bromoform	< 5.00	ug/L	3/8/2017 17:23	
Bromomethane	< 2.00	ug/L	3/8/2017 17:23	
Carbon disulfide	< 2.00	ug/L	3/8/2017 17:23	
Carbon Tetrachloride	< 2.00	ug/L	3/8/2017 17:23	
Chlorobenzene	< 2.00	ug/L	3/8/2017 17:23	



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave

Sample Identifier:	MW-1					
Lab Sample ID:	170791-01			Date Sampled:	3/2/2017	
Matrix:	Groundwater			Date Received:	3/3/2017	
Chloroethane		< 2.00	ug/L		3/8/2017	17:23
Chloroform		< 2.00	ug/L		3/8/2017	17:23
Chloromethane		< 2.00	ug/L		3/8/2017	17:23
cis-1,2-Dichloroethene		< 2.00	ug/L		3/8/2017	17:23
cis-1,3-Dichloropropen	e	< 2.00	ug/L		3/8/2017	17:23
Cyclohexane		< 10.0	ug/L		3/8/2017	17:23
Dibromochloromethane		< 2.00	ug/L		3/8/2017	17:23
Dichlorodifluoromethar	ne	< 2.00	ug/L		3/8/2017	17:23
Ethylbenzene		< 2.00	ug/L		3/8/2017	17:23
Freon 113		< 2.00	ug/L		3/8/2017	17:23
Isopropylbenzene		< 2.00	ug/L		3/8/2017	17:23
m,p-Xylene		< 2.00	ug/L		3/8/2017	17:23
Methyl acetate		< 2.00	ug/L		3/8/2017	17:23
Methyl tert-butyl Ether		< 2.00	ug/L		3/8/2017	17:23
Methylcyclohexane		< 2.00	ug/L		3/8/2017	17:23
Methylene chloride		< 5.00	ug/L		3/8/2017	17:23
o-Xylene		< 2.00	ug/L		3/8/2017	17:23
Styrene		< 5.00	ug/L		3/8/2017	17:23
Tetrachloroethene		< 2.00	ug/L		3/8/2017	17:23
Toluene		< 2.00	ug/L		3/8/2017	17:23
trans-1,2-Dichloroether	ne	< 2.00	ug/L		3/8/2017	17:23
trans-1,3-Dichloroprope	ene	< 2.00	ug/L		3/8/2017	17:23
Trichloroethene		< 2.00	ug/L		3/8/2017	17:23
Trichlorofluoromethane	e	< 2.00	ug/L		3/8/2017	17:23
Vinyl chloride		< 2.00	ug/L		3/8/2017	17:23



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave

Sample Identifier: MW-1

Lab Sample ID:170791-01Date Sampled:3/2/2017Matrix:GroundwaterDate Received:3/3/2017

Surrogate Percent Recovery Limits Outliers Date Analyzed 1,2-Dichloroethane-d4 106 81.2 - 120 3/8/2017 17:23 4-Bromofluorobenzene 87.2 82.4 - 112 17:23 3/8/2017 Pentafluorobenzene 94.3 90.2 - 112 3/8/2017 17:23 Toluene-D8 96.4 89.9 - 109 3/8/2017 17:23

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39899.D



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave

Sample Identifier: MW-2

Lab Sample ID:170791-02Date Sampled:3/2/2017Matrix:GroundwaterDate Received:3/3/2017

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		3/8/2017 20:49
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		3/8/2017 20:49
1,1,2-Trichloroethane	< 2.00	ug/L		3/8/2017 20:49
1,1-Dichloroethane	< 2.00	ug/L		3/8/2017 20:49
1,1-Dichloroethene	< 2.00	ug/L		3/8/2017 20:49
1,2,3-Trichlorobenzene	< 5.00	ug/L		3/8/2017 20:49
1,2,4-Trichlorobenzene	< 5.00	ug/L		3/8/2017 20:49
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		3/8/2017 20:49
1,2-Dibromoethane	< 2.00	ug/L		3/8/2017 20:49
1,2-Dichlorobenzene	< 2.00	ug/L		3/8/2017 20:49
1,2-Dichloroethane	< 2.00	ug/L		3/8/2017 20:49
1,2-Dichloropropane	< 2.00	ug/L		3/8/2017 20:49
1,3-Dichlorobenzene	< 2.00	ug/L		3/8/2017 20:49
1,4-Dichlorobenzene	< 2.00	ug/L		3/8/2017 20:49
1,4-dioxane	< 20.0	ug/L		3/8/2017 20:49
2-Butanone	< 10.0	ug/L		3/8/2017 20:49
2-Hexanone	< 5.00	ug/L		3/8/2017 20:49
4-Methyl-2-pentanone	< 5.00	ug/L		3/8/2017 20:49
Acetone	6.60	ug/L	J	3/8/2017 20:49
Benzene	< 1.00	ug/L		3/8/2017 20:49
Bromochloromethane	< 5.00	ug/L		3/8/2017 20:49
Bromodichloromethane	< 2.00	ug/L		3/8/2017 20:49
Bromoform	< 5.00	ug/L		3/8/2017 20:49
Bromomethane	< 2.00	ug/L		3/8/2017 20:49
Carbon disulfide	< 2.00	ug/L		3/8/2017 20:49
Carbon Tetrachloride	< 2.00	ug/L		3/8/2017 20:49
Chlorobenzene	< 2.00	ug/L		3/8/2017 20:49



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave

Sample Identifier: MW-2 Lab Sample ID: 170791-02 Date Sampled: 3/2/2017 **Date Received:** Matrix: Groundwater 3/3/2017 Chloroethane < 2.00 ug/L 3/8/2017 20:49 Chloroform < 2.00 ug/L 3/8/2017 20:49 Chloromethane < 2.00 ug/L 3/8/2017 20:49 cis-1.2-Dichloroethene < 2.00 ug/L 3/8/2017 20:49 cis-1,3-Dichloropropene < 2.00 ug/L 3/8/2017 20:49 Cyclohexane < 10.0 ug/L 3/8/2017 20:49 Dibromochloromethane < 2.00 ug/L 3/8/2017 20:49 Dichlorodifluoromethane < 2.00 3/8/2017 20:49 ug/L Ethylbenzene < 2.00 ug/L 3/8/2017 20:49 Freon 113 < 2.00 ug/L 3/8/2017 20:49 < 2.00 Isopropylbenzene ug/L 3/8/2017 20:49 m,p-Xylene 1.94 ug/L J 3/8/2017 20:49 Methyl acetate < 2.00 ug/L 3/8/2017 20:49 < 2.00 Methyl tert-butyl Ether ug/L 3/8/2017 20:49 Methylcyclohexane < 2.00 ug/L 3/8/2017 20:49 Methylene chloride < 5.00 3/8/2017 20:49 ug/L o-Xylene 1.99 ug/L J 3/8/2017 20:49 < 5.00 ug/L 3/8/2017 20:49 Stvrene Tetrachloroethene < 2.00 ug/L 3/8/2017 20:49 Toluene < 2.00 3/8/2017 20:49 ug/L trans-1,2-Dichloroethene < 2.00 ug/L 3/8/2017 20:49 trans-1,3-Dichloropropene < 2.00 ug/L 3/8/2017 20:49 Trichloroethene < 2.00 ug/L 3/8/2017 20:49 Trichlorofluoromethane < 2.00 ug/L 3/8/2017 20:49 Vinyl chloride < 2.00 ug/L 3/8/2017 20:49



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave

Sample Identifier: MW-2

Lab Sample ID: 170791-02 **Date Sampled:** 3/2/2017

Matrix: Groundwater Date Received: 3/3/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Anal	vzed
1,2-Dichloroethane-d4	106	81.2 - 120		3/8/2017	20:49
4-Bromofluorobenzene	93.6	82.4 - 112		3/8/2017	20:49
Pentafluorobenzene	95.4	90.2 - 112		3/8/2017	20:49
Toluene-D8	95.0	89.9 - 109		3/8/2017	20:49

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39908.D



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave

Sample Identifier: MW-3

Lab Sample ID:170791-03Date Sampled:3/2/2017Matrix:GroundwaterDate Received:3/3/2017

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L	3/8/2017 18:09
1,1,2,2-Tetrachloroethane	< 2.00	ug/L	3/8/2017 18:09
1,1,2-Trichloroethane	< 2.00	ug/L	3/8/2017 18:09
1,1-Dichloroethane	< 2.00	ug/L	3/8/2017 18:09
1,1-Dichloroethene	< 2.00	ug/L	3/8/2017 18:09
1,2,3-Trichlorobenzene	< 5.00	ug/L	3/8/2017 18:09
1,2,4-Trichlorobenzene	< 5.00	ug/L	3/8/2017 18:09
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	3/8/2017 18:09
1,2-Dibromoethane	< 2.00	ug/L	3/8/2017 18:09
1,2-Dichlorobenzene	< 2.00	ug/L	3/8/2017 18:09
1,2-Dichloroethane	< 2.00	ug/L	3/8/2017 18:09
1,2-Dichloropropane	< 2.00	ug/L	3/8/2017 18:09
1,3-Dichlorobenzene	< 2.00	ug/L	3/8/2017 18:09
1,4-Dichlorobenzene	< 2.00	ug/L	3/8/2017 18:09
1,4-dioxane	< 20.0	ug/L	3/8/2017 18:09
2-Butanone	< 10.0	ug/L	3/8/2017 18:09
2-Hexanone	< 5.00	ug/L	3/8/2017 18:09
4-Methyl-2-pentanone	< 5.00	ug/L	3/8/2017 18:09
Acetone	< 10.0	ug/L	3/8/2017 18:09
Benzene	< 1.00	ug/L	3/8/2017 18:09
Bromochloromethane	< 5.00	ug/L	3/8/2017 18:09
Bromodichloromethane	< 2.00	ug/L	3/8/2017 18:09
Bromoform	< 5.00	ug/L	3/8/2017 18:09
Bromomethane	< 2.00	ug/L	3/8/2017 18:09
Carbon disulfide	< 2.00	ug/L	3/8/2017 18:09
Carbon Tetrachloride	< 2.00	ug/L	3/8/2017 18:09
Chlorobenzene	< 2.00	ug/L	3/8/2017 18:09



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave

Sample Identifier: MW-3 Lab Sample ID: 170791-03 Date Sampled: 3/2/2017 **Date Received:** Matrix: Groundwater 3/3/2017 Chloroethane < 2.00 ug/L 3/8/2017 18:09 Chloroform < 2.00 ug/L 3/8/2017 18:09 Chloromethane < 2.00 ug/L 3/8/2017 18:09 cis-1.2-Dichloroethene < 2.00 ug/L 3/8/2017 18:09 cis-1,3-Dichloropropene < 2.00 ug/L 3/8/2017 18:09 Cyclohexane < 10.0 ug/L 3/8/2017 18:09 Dibromochloromethane < 2.00 ug/L 3/8/2017 18:09 Dichlorodifluoromethane < 2.00 3/8/2017 18:09 ug/L Ethylbenzene < 2.00 ug/L 3/8/2017 18:09 Freon 113 < 2.00 ug/L 3/8/2017 18:09 < 2.00 Isopropylbenzene ug/L 3/8/2017 18:09 m,p-Xylene < 2.00 ug/L 3/8/2017 18:09 Methyl acetate < 2.00 ug/L 3/8/2017 18:09 < 2.00 Methyl tert-butyl Ether ug/L 3/8/2017 18:09 Methylcyclohexane < 2.00 ug/L 3/8/2017 18:09 3/8/2017 18:09 Methylene chloride < 5.00 ug/L o-Xylene < 2.00 ug/L 3/8/2017 18:09 < 5.00 Stvrene ug/L 3/8/2017 18:09 Tetrachloroethene 1.92 3/8/2017 18:09 ug/L I Toluene < 2.00 ug/L 3/8/2017 18:09 trans-1,2-Dichloroethene < 2.00 ug/L 3/8/2017 18:09 trans-1,3-Dichloropropene < 2.00 ug/L 3/8/2017 18:09 Trichloroethene < 2.00 3/8/2017 18:09 ug/L Trichlorofluoromethane < 2.00 ug/L 3/8/2017 18:09 Vinyl chloride < 2.00 ug/L 3/8/2017 18:09



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave

Sample Identifier: MW-3

Lab Sample ID:170791-03Date Sampled:3/2/2017Matrix:GroundwaterDate Received:3/3/2017

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Anal	yzed
1,2-Dichloroethane-d4	107	81.2 - 120		3/8/2017	18:09
4-Bromofluorobenzene	88.1	82.4 - 112		3/8/2017	18:09
Pentafluorobenzene	96.2	90.2 - 112		3/8/2017	18:09
Toluene-D8	96.4	89.9 - 109		3/8/2017	18:09

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39901.D



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave

Sample Identifier: MW-4

Lab Sample ID:170791-04Date Sampled:3/2/2017Matrix:GroundwaterDate Received:3/3/2017

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L	3/8/2017 18:32
1,1,2,2-Tetrachloroethane	< 2.00	ug/L	3/8/2017 18:32
1,1,2-Trichloroethane	< 2.00	ug/L	3/8/2017 18:32
1,1-Dichloroethane	< 2.00	ug/L	3/8/2017 18:32
1,1-Dichloroethene	< 2.00	ug/L	3/8/2017 18:32
1,2,3-Trichlorobenzene	< 5.00	ug/L	3/8/2017 18:32
1,2,4-Trichlorobenzene	< 5.00	ug/L	3/8/2017 18:32
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	3/8/2017 18:32
1,2-Dibromoethane	< 2.00	ug/L	3/8/2017 18:32
1,2-Dichlorobenzene	< 2.00	ug/L	3/8/2017 18:32
1,2-Dichloroethane	< 2.00	ug/L	3/8/2017 18:32
1,2-Dichloropropane	< 2.00	ug/L	3/8/2017 18:32
1,3-Dichlorobenzene	< 2.00	ug/L	3/8/2017 18:32
1,4-Dichlorobenzene	< 2.00	ug/L	3/8/2017 18:32
1,4-dioxane	< 20.0	ug/L	3/8/2017 18:32
2-Butanone	< 10.0	ug/L	3/8/2017 18:32
2-Hexanone	< 5.00	ug/L	3/8/2017 18:32
4-Methyl-2-pentanone	< 5.00	ug/L	3/8/2017 18:32
Acetone	< 10.0	ug/L	3/8/2017 18:32
Benzene	< 1.00	ug/L	3/8/2017 18:32
Bromochloromethane	< 5.00	ug/L	3/8/2017 18:32
Bromodichloromethane	< 2.00	ug/L	3/8/2017 18:32
Bromoform	< 5.00	ug/L	3/8/2017 18:32
Bromomethane	< 2.00	ug/L	3/8/2017 18:32
Carbon disulfide	< 2.00	ug/L	3/8/2017 18:32
Carbon Tetrachloride	< 2.00	ug/L	3/8/2017 18:32
Chlorobenzene	< 2.00	ug/L	3/8/2017 18:32



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave

Sample Identifier:	MW-4					
Lab Sample ID:	170791-04			Date Sampled:	3/2/2017	
Matrix:	Groundwater			Date Received:	3/3/2017	
Chloroethane		< 2.00	ug/L		3/8/2017	18:32
Chloroform		< 2.00	ug/L		3/8/2017	18:32
Chloromethane		< 2.00	ug/L		3/8/2017	18:32
cis-1,2-Dichloroethene		< 2.00	ug/L		3/8/2017	18:32
cis-1,3-Dichloropropene	e	< 2.00	ug/L		3/8/2017	18:32
Cyclohexane		< 10.0	ug/L		3/8/2017	18:32
Dibromochloromethane		< 2.00	ug/L		3/8/2017	18:32
Dichlorodifluoromethar	ne	< 2.00	ug/L		3/8/2017	18:32
Ethylbenzene		< 2.00	ug/L		3/8/2017	18:32
Freon 113		< 2.00	ug/L		3/8/2017	18:32
Isopropylbenzene		< 2.00	ug/L		3/8/2017	18:32
m,p-Xylene		< 2.00	ug/L		3/8/2017	18:32
Methyl acetate		< 2.00	ug/L		3/8/2017	18:32
Methyl tert-butyl Ether		< 2.00	ug/L		3/8/2017	18:32
Methylcyclohexane		< 2.00	ug/L		3/8/2017	18:32
Methylene chloride		< 5.00	ug/L		3/8/2017	18:32
o-Xylene		< 2.00	ug/L		3/8/2017	18:32
Styrene		< 5.00	ug/L		3/8/2017	18:32
Tetrachloroethene		< 2.00	ug/L		3/8/2017	18:32
Toluene		< 2.00	ug/L		3/8/2017	18:32
trans-1,2-Dichloroether	ne	< 2.00	ug/L		3/8/2017	18:32
trans-1,3-Dichloroprope	ene	< 2.00	ug/L		3/8/2017	18:32
Trichloroethene		< 2.00	ug/L		3/8/2017	18:32
Trichlorofluoromethane	e	< 2.00	ug/L		3/8/2017	18:32
Vinyl chloride		< 2.00	ug/L		3/8/2017	18:32



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave

Sample Identifier: MW-4

Lab Sample ID:170791-04Date Sampled:3/2/2017Matrix:GroundwaterDate Received:3/3/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Anal	vzed
		· · · · · · · · · · · · · · · · · · ·	<u>outhers</u>		
1,2-Dichloroethane-d4	107	81.2 - 120		3/8/2017	18:32
4-Bromofluorobenzene	84.3	82.4 - 112		3/8/2017	18:32
Pentafluorobenzene	95.0	90.2 - 112		3/8/2017	18:32
Toluene-D8	99.6	89.9 - 109		3/8/2017	18:32

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39902.D



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave

Sample Identifier: T-736 Trip Blank

Lab Sample ID:170791-05Date Sampled:3/2/2017Matrix:WaterDate Received:3/3/2017

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L	3/8/2017 16:59
1,1,2,2-Tetrachloroethane	< 2.00	ug/L	3/8/2017 16:59
1,1,2-Trichloroethane	< 2.00	ug/L	3/8/2017 16:59
1,1-Dichloroethane	< 2.00	ug/L	3/8/2017 16:59
1,1-Dichloroethene	< 2.00	ug/L	3/8/2017 16:59
1,2,3-Trichlorobenzene	< 5.00	ug/L	3/8/2017 16:59
1,2,4-Trichlorobenzene	< 5.00	ug/L	3/8/2017 16:59
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	3/8/2017 16:59
1,2-Dibromoethane	< 2.00	ug/L	3/8/2017 16:59
1,2-Dichlorobenzene	< 2.00	ug/L	3/8/2017 16:59
1,2-Dichloroethane	< 2.00	ug/L	3/8/2017 16:59
1,2-Dichloropropane	< 2.00	ug/L	3/8/2017 16:59
1,3-Dichlorobenzene	< 2.00	ug/L	3/8/2017 16:59
1,4-Dichlorobenzene	< 2.00	ug/L	3/8/2017 16:59
1,4-dioxane	< 20.0	ug/L	3/8/2017 16:59
2-Butanone	< 10.0	ug/L	3/8/2017 16:59
2-Hexanone	< 5.00	ug/L	3/8/2017 16:59
4-Methyl-2-pentanone	< 5.00	ug/L	3/8/2017 16:59
Acetone	< 10.0	ug/L	3/8/2017 16:59
Benzene	< 1.00	ug/L	3/8/2017 16:59
Bromochloromethane	< 5.00	ug/L	3/8/2017 16:59
Bromodichloromethane	< 2.00	ug/L	3/8/2017 16:59
Bromoform	< 5.00	ug/L	3/8/2017 16:59
Bromomethane	< 2.00	ug/L	3/8/2017 16:59
Carbon disulfide	< 2.00	ug/L	3/8/2017 16:59
Carbon Tetrachloride	< 2.00	ug/L	3/8/2017 16:59
Chlorobenzene	< 2.00	ug/L	3/8/2017 16:59



3/8/2017 16:59

Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave

Sample Identifier: T-736 Trip Blank Lab Sample ID: 170791-05 Date Sampled: 3/2/2017 **Date Received:** Matrix: Water 3/3/2017 Chloroethane < 2.00 ug/L 3/8/2017 16:59 Chloroform < 2.00 ug/L 3/8/2017 16:59 Chloromethane < 2.00 ug/L 3/8/2017 16:59 3/8/2017 16:59 cis-1.2-Dichloroethene < 2.00 ug/L cis-1,3-Dichloropropene < 2.00 ug/L 3/8/2017 16:59 Cyclohexane < 10.0 ug/L 3/8/2017 16:59 Dibromochloromethane < 2.00 ug/L 3/8/2017 16:59 3/8/2017 16:59 Dichlorodifluoromethane < 2.00 ug/L Ethylbenzene < 2.00 ug/L 3/8/2017 16:59 Freon 113 < 2.00 ug/L 3/8/2017 16:59 < 2.00 Isopropylbenzene ug/L 3/8/2017 16:59 m,p-Xylene < 2.00 ug/L 3/8/2017 16:59 Methyl acetate < 2.00 ug/L 3/8/2017 16:59 < 2.00 Methyl tert-butyl Ether ug/L 3/8/2017 16:59 Methylcyclohexane < 2.00 ug/L 3/8/2017 16:59 3/8/2017 16:59 Methylene chloride < 5.00 ug/L o-Xylene < 2.00 ug/L 3/8/2017 16:59 < 5.00 ug/L Stvrene 3/8/2017 16:59 Tetrachloroethene < 2.00 ug/L 3/8/2017 16:59 Toluene < 2.00 ug/L 3/8/2017 16:59 trans-1,2-Dichloroethene < 2.00 ug/L 3/8/2017 16:59 trans-1,3-Dichloropropene < 2.00 ug/L 3/8/2017 16:59 Trichloroethene < 2.00 3/8/2017 16:59 ug/L Trichlorofluoromethane < 2.00 ug/L 3/8/2017 16:59

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

ug/L

< 2.00

Vinyl chloride



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave

Sample Identifier: T-736 Trip Blank

Lab Sample ID:170791-05Date Sampled:3/2/2017Matrix:WaterDate Received:3/3/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Anal	vzed
1,2-Dichloroethane-d4	107	81.2 - 120	<u>outrers</u>	3/8/2017	16:59
4-Bromofluorobenzene	86.1	82.4 - 112		3/8/2017	16:59
Pentafluorobenzene	97.6	90.2 - 112		3/8/2017	16:59
Toluene-D8	94.2	89.9 - 109		3/8/2017	16:59

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39898.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "J" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- $"A" = denotes \ a \ parameter \ for \ which \ ELAP \ does \ not \ offer \ approval \ as \ part \ of \ their \ laboratory \ certification \ program.$
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written. between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term, or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

CHAIN OF CUSTODY

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By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

Rush 3 day

Category A

NYSDEC EDD

Received By

Category B

Rush 1 day Rush 2 day

please indicate date needed:

Other

please indicate package needed:

Other EDD needed :

Received @ Lab By

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09:46

P.I.F.

Date/Time

See additional page for sample conditions.



Chain of Custody Supplement

Client:	Ravi Engineering	Completed by:	Glenn Pezzulo
Lab Project ID:	170791	Date:	3/3/17
10		on Requirements .0/241/242/243/244	
Condition	NELAC compliance with the sample Yes	condition requirements upo No	on receipt N/A
Container Type			
Comments		*****	
Transferred to method- compliant container			
Headspace (<1 mL) Comments			
Preservation Comments			
Chlorine Absent (<0.10 ppm per test strip) Comments			
Holding Time Comments			
Temperature Comments	13°C iced started	in field	
Sufficient Sample Quantity Comments			



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave 45-17-008

Sample Identifier: HLA-MW-2-2018

Lab Sample ID:184515-01Date Sampled:10/1/2018Matrix:GroundwaterDate Received:10/2/2018

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/4/2018 15:45
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/4/2018 15:45
1,1,2-Trichloroethane	< 2.00	ug/L		10/4/2018 15:45
1,1-Dichloroethane	< 2.00	ug/L		10/4/2018 15:45
1,1-Dichloroethene	< 2.00	ug/L		10/4/2018 15:45
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/4/2018 15:45
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/4/2018 15:45
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/4/2018 15:45
1,2-Dibromoethane	< 2.00	ug/L		10/4/2018 15:45
1,2-Dichlorobenzene	< 2.00	ug/L		10/4/2018 15:45
1,2-Dichloroethane	< 2.00	ug/L		10/4/2018 15:45
1,2-Dichloropropane	< 2.00	ug/L		10/4/2018 15:45
1,3-Dichlorobenzene	< 2.00	ug/L		10/4/2018 15:45
1,4-Dichlorobenzene	< 2.00	ug/L		10/4/2018 15:45
1,4-Dioxane	< 20.0	ug/L		10/4/2018 15:45
2-Butanone	< 10.0	ug/L		10/4/2018 15:45
2-Hexanone	< 5.00	ug/L		10/4/2018 15:45
4-Methyl-2-pentanone	< 5.00	ug/L		10/4/2018 15:45
Acetone	< 10.0	ug/L		10/4/2018 15:45
Benzene	< 1.00	ug/L		10/4/2018 15:45
Bromochloromethane	< 5.00	ug/L		10/4/2018 15:45
Bromodichloromethane	< 2.00	ug/L		10/4/2018 15:45
Bromoform	< 5.00	ug/L		10/4/2018 15:45
Bromomethane	< 2.00	ug/L		10/4/2018 15:45
Carbon disulfide	< 2.00	ug/L		10/4/2018 15:45
Carbon Tetrachloride	< 2.00	ug/L		10/4/2018 15:45
Chlorobenzene	< 2.00	ug/L		10/4/2018 15:45



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave 45-17-008

Sample Identifier:	HLA-MW-2-2018			
Lab Sample ID:	184515-01		Date Sampled:	10/1/2018
Matrix:	Groundwater		Date Received:	10/2/2018
Chloroethane	< 2.00	ug/L		10/4/2018 15:45
Chloroform	< 2.00	ug/L		10/4/2018 15:45
Chloromethane	< 2.00	ug/L		10/4/2018 15:45
cis-1,2-Dichloroethene	< 2.00	ug/L		10/4/2018 15:45
cis-1,3-Dichloropropen	e < 2.00	ug/L		10/4/2018 15:45
Cyclohexane	< 10.0	ug/L		10/4/2018 15:45
Dibromochloromethane	e < 2.00	ug/L		10/4/2018 15:45
Dichlorodifluoromethan	ne < 2.00	ug/L		10/4/2018 15:45
Ethylbenzene	< 2.00	ug/L		10/4/2018 15:45
Freon 113	< 2.00	ug/L		10/4/2018 15:45
Isopropylbenzene	< 2.00	ug/L		10/4/2018 15:45
m,p-Xylene	< 2.00	ug/L		10/4/2018 15:45
Methyl acetate	< 2.00	ug/L		10/4/2018 15:45
Methyl tert-butyl Ether	< 2.00	ug/L		10/4/2018 15:45
Methylcyclohexane	< 2.00	ug/L		10/4/2018 15:45
Methylene chloride	< 5.00	ug/L		10/4/2018 15:45
o-Xylene	< 2.00	ug/L		10/4/2018 15:45
Styrene	< 5.00	ug/L		10/4/2018 15:45
Tetrachloroethene	< 2.00	ug/L		10/4/2018 15:45
Toluene	< 2.00	ug/L		10/4/2018 15:45
trans-1,2-Dichloroether	ne < 2.00	ug/L		10/4/2018 15:45
trans-1,3-Dichloroprop	ene < 2.00	ug/L		10/4/2018 15:45
Trichloroethene	< 2.00	ug/L		10/4/2018 15:45
Trichlorofluoromethan	e < 2.00	ug/L		10/4/2018 15:45
Vinyl chloride	< 2.00	ug/L		10/4/2018 15:45



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave 45-17-008

Sample Identifier: HLA-MW-2-2018

Lab Sample ID:184515-01Date Sampled:10/1/2018Matrix:GroundwaterDate Received:10/2/2018

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	Outliers	Date Analy	vzed
1,2-Dichloroethane-d4	104	80.7 - 121		10/4/2018	15:45
4-Bromofluorobenzene	101	74.3 - 121		10/4/2018	15:45
Pentafluorobenzene	95.3	86.2 - 111		10/4/2018	15:45
Toluene-D8	97.8	86.2 - 112		10/4/2018	15:45

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x54773.D



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave 45-17-008

Sample Identifier: MW-2-2018

Lab Sample ID:184515-02Date Sampled:10/1/2018Matrix:GroundwaterDate Received:10/2/2018

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/4/2018 16:08
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/4/2018 16:08
1,1,2-Trichloroethane	< 2.00	ug/L		10/4/2018 16:08
1,1-Dichloroethane	< 2.00	ug/L		10/4/2018 16:08
1,1-Dichloroethene	< 2.00	ug/L		10/4/2018 16:08
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/4/2018 16:08
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/4/2018 16:08
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/4/2018 16:08
1,2-Dibromoethane	< 2.00	ug/L		10/4/2018 16:08
1,2-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:08
1,2-Dichloroethane	< 2.00	ug/L		10/4/2018 16:08
1,2-Dichloropropane	< 2.00	ug/L		10/4/2018 16:08
1,3-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:08
1,4-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:08
1,4-Dioxane	< 20.0	ug/L		10/4/2018 16:08
2-Butanone	< 10.0	ug/L		10/4/2018 16:08
2-Hexanone	< 5.00	ug/L		10/4/2018 16:08
4-Methyl-2-pentanone	< 5.00	ug/L		10/4/2018 16:08
Acetone	7.98	ug/L	J	10/4/2018 16:08
Benzene	< 1.00	ug/L		10/4/2018 16:08
Bromochloromethane	< 5.00	ug/L		10/4/2018 16:08
Bromodichloromethane	< 2.00	ug/L		10/4/2018 16:08
Bromoform	< 5.00	ug/L		10/4/2018 16:08
Bromomethane	< 2.00	ug/L		10/4/2018 16:08
Carbon disulfide	< 2.00	ug/L		10/4/2018 16:08
Carbon Tetrachloride	< 2.00	ug/L		10/4/2018 16:08
Chlorobenzene	< 2.00	ug/L		10/4/2018 16:08



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave 45-17-008

Sample Identifier:	MW-2-2018					
Lab Sample ID:	184515-02			Date Sampled:	10/1/2018	
Matrix:	Groundwater			Date Received:	10/2/2018	
Chloroethane		< 2.00	ug/L		10/4/2018	16:08
Chloroform		< 2.00	ug/L		10/4/2018	16:08
Chloromethane		< 2.00	ug/L		10/4/2018	16:08
cis-1,2-Dichloroethene		< 2.00	ug/L		10/4/2018	16:08
cis-1,3-Dichloropropene	2	< 2.00	ug/L		10/4/2018	16:08
Cyclohexane		< 10.0	ug/L		10/4/2018	16:08
Dibromochloromethane		< 2.00	ug/L		10/4/2018	16:08
Dichlorodifluoromethar	ie	< 2.00	ug/L		10/4/2018	16:08
Ethylbenzene		< 2.00	ug/L		10/4/2018	16:08
Freon 113		< 2.00	ug/L		10/4/2018	16:08
Isopropylbenzene		< 2.00	ug/L		10/4/2018	16:08
m,p-Xylene		< 2.00	ug/L		10/4/2018	16:08
Methyl acetate		< 2.00	ug/L		10/4/2018	16:08
Methyl tert-butyl Ether		< 2.00	ug/L		10/4/2018	16:08
Methylcyclohexane		< 2.00	ug/L		10/4/2018	16:08
Methylene chloride		< 5.00	ug/L		10/4/2018	16:08
o-Xylene		< 2.00	ug/L		10/4/2018	16:08
Styrene		< 5.00	ug/L		10/4/2018	16:08
Tetrachloroethene		< 2.00	ug/L		10/4/2018	16:08
Toluene		< 2.00	ug/L		10/4/2018	16:08
trans-1,2-Dichloroethen	e	< 2.00	ug/L		10/4/2018	16:08
trans-1,3-Dichloroprope	ene	< 2.00	ug/L		10/4/2018	16:08
Trichloroethene		< 2.00	ug/L		10/4/2018	16:08
Trichlorofluoromethane		< 2.00	ug/L		10/4/2018	16:08
Vinyl chloride		< 2.00	ug/L		10/4/2018	16:08



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave 45-17-008

Sample Identifier: MW-2-2018

Lab Sample ID:184515-02Date Sampled:10/1/2018Matrix:GroundwaterDate Received:10/2/2018

Surrogate	Percent Recovery	Limits	Outliers	Date Analy	wzod
Surrogate	<u>reftent ketovery</u>	<u>Limits</u>	<u>Outilets</u>	Date Aliai	<u>vzeu</u>
1,2-Dichloroethane-d4	101	80.7 - 121		10/4/2018	16:08
4-Bromofluorobenzene	99.4	74.3 - 121		10/4/2018	16:08
Pentafluorobenzene	95.6	86.2 - 111		10/4/2018	16:08
Toluene-D8	96.5	86.2 - 112		10/4/2018	16:08

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x54774.D



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave 45-17-008

Sample Identifier: MW-3-2018

Lab Sample ID:184515-03Date Sampled:10/1/2018Matrix:GroundwaterDate Received:10/2/2018

Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/4/2018 16:32
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/4/2018 16:32
1,1,2-Trichloroethane	< 2.00	ug/L		10/4/2018 16:32
1,1-Dichloroethane	< 2.00	ug/L		10/4/2018 16:32
1,1-Dichloroethene	< 2.00	ug/L		10/4/2018 16:32
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/4/2018 16:32
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/4/2018 16:32
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/4/2018 16:32
1,2-Dibromoethane	< 2.00	ug/L		10/4/2018 16:32
1,2-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:32
1,2-Dichloroethane	< 2.00	ug/L		10/4/2018 16:32
1,2-Dichloropropane	< 2.00	ug/L		10/4/2018 16:32
1,3-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:32
1,4-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:32
1,4-Dioxane	< 20.0	ug/L		10/4/2018 16:32
2-Butanone	< 10.0	ug/L		10/4/2018 16:32
2-Hexanone	< 5.00	ug/L		10/4/2018 16:32
4-Methyl-2-pentanone	< 5.00	ug/L		10/4/2018 16:32
Acetone	< 10.0	ug/L		10/4/2018 16:32
Benzene	< 1.00	ug/L		10/4/2018 16:32
Bromochloromethane	< 5.00	ug/L		10/4/2018 16:32
Bromodichloromethane	< 2.00	ug/L		10/4/2018 16:32
Bromoform	< 5.00	ug/L		10/4/2018 16:32
Bromomethane	< 2.00	ug/L		10/4/2018 16:32
Carbon disulfide	< 2.00	ug/L		10/4/2018 16:32
Carbon Tetrachloride	< 2.00	ug/L		10/4/2018 16:32
Chlorobenzene	< 2.00	ug/L		10/4/2018 16:32



Client: <u>Ravi Engineering & Land Surveying, P.C.</u>

Project Reference: 3130 Monroe Ave 45-17-008

Sample Identifier:	MW-3-2018					
Lab Sample ID:	184515-03			Date Sampled:	10/1/2018	
Matrix:	Groundwater			Date Received:	10/2/2018	
Chloroethane		< 2.00	ug/L		10/4/2018	16:32
Chloroform		< 2.00	ug/L		10/4/2018	16:32
Chloromethane		< 2.00	ug/L		10/4/2018	16:32
cis-1,2-Dichloroethene		1.19	ug/L	J	10/4/2018	16:32
cis-1,3-Dichloropropene		< 2.00	ug/L		10/4/2018	16:32
Cyclohexane		< 10.0	ug/L		10/4/2018	16:32
Dibromochloromethane		< 2.00	ug/L		10/4/2018	16:32
Dichlorodifluoromethan	e	< 2.00	ug/L		10/4/2018	16:32
Ethylbenzene		< 2.00	ug/L		10/4/2018	16:32
Freon 113		< 2.00	ug/L		10/4/2018	16:32
Isopropylbenzene		< 2.00	ug/L		10/4/2018	16:32
m,p-Xylene		< 2.00	ug/L		10/4/2018	16:32
Methyl acetate		< 2.00	ug/L		10/4/2018	16:32
Methyl tert-butyl Ether		< 2.00	ug/L		10/4/2018	16:32
Methylcyclohexane		< 2.00	ug/L		10/4/2018	16:32
Methylene chloride		< 5.00	ug/L		10/4/2018	16:32
o-Xylene		< 2.00	ug/L		10/4/2018	16:32
Styrene		< 5.00	ug/L		10/4/2018	16:32
Tetrachloroethene		< 2.00	ug/L		10/4/2018	16:32
Toluene		< 2.00	ug/L		10/4/2018	16:32
trans-1,2-Dichloroethen	e	< 2.00	ug/L		10/4/2018	16:32
trans-1,3-Dichloroprope	ene	< 2.00	ug/L		10/4/2018	16:32
Trichloroethene		< 2.00	ug/L		10/4/2018	16:32
Trichlorofluoromethane	•	< 2.00	ug/L		10/4/2018	16:32
Vinyl chloride		< 2.00	ug/L		10/4/2018	16:32



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave 45-17-008

Sample Identifier: MW-3-2018

Lab Sample ID:184515-03Date Sampled:10/1/2018Matrix:GroundwaterDate Received:10/2/2018

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	vzed
1,2-Dichloroethane-d4	102	80.7 - 121		10/4/2018	16:32
4-Bromofluorobenzene	98.2	74.3 - 121		10/4/2018	16:32
Pentafluorobenzene	94.6	86.2 - 111		10/4/2018	16:32
Toluene-D8	95.3	86.2 - 112		10/4/2018	16:32

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x54775.D



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave 45-17-008

Sample Identifier: MW-4-2018

Lab Sample ID:184515-04Date Sampled:10/1/2018Matrix:GroundwaterDate Received:10/2/2018

Volatile Organics

Analyte	<u>Result</u>	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/4/2018 16:55
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/4/2018 16:55
1,1,2-Trichloroethane	< 2.00	ug/L		10/4/2018 16:55
1,1-Dichloroethane	< 2.00	ug/L		10/4/2018 16:55
1,1-Dichloroethene	< 2.00	ug/L		10/4/2018 16:55
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/4/2018 16:55
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/4/2018 16:55
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/4/2018 16:55
1,2-Dibromoethane	< 2.00	ug/L		10/4/2018 16:55
1,2-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:55
1,2-Dichloroethane	< 2.00	ug/L		10/4/2018 16:55
1,2-Dichloropropane	< 2.00	ug/L		10/4/2018 16:55
1,3-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:55
1,4-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:55
1,4-Dioxane	< 20.0	ug/L		10/4/2018 16:55
2-Butanone	< 10.0	ug/L		10/4/2018 16:55
2-Hexanone	< 5.00	ug/L		10/4/2018 16:55
4-Methyl-2-pentanone	< 5.00	ug/L		10/4/2018 16:55
Acetone	< 10.0	ug/L		10/4/2018 16:55
Benzene	< 1.00	ug/L		10/4/2018 16:55
Bromochloromethane	< 5.00	ug/L		10/4/2018 16:55
Bromodichloromethane	< 2.00	ug/L		10/4/2018 16:55
Bromoform	< 5.00	ug/L		10/4/2018 16:55
Bromomethane	< 2.00	ug/L		10/4/2018 16:55
Carbon disulfide	< 2.00	ug/L		10/4/2018 16:55
Carbon Tetrachloride	< 2.00	ug/L		10/4/2018 16:55
Chlorobenzene	< 2.00	ug/L		10/4/2018 16:55



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave 45-17-008

Sample Identifier:	MW-4-2018					
Lab Sample ID:	184515-04			Date Sampled:	10/1/2018	
Matrix:	Groundwater			Date Received:	10/2/2018	
Chloroethane		< 2.00	ug/L		10/4/2018	16:55
Chloroform		< 2.00	ug/L		10/4/2018	16:55
Chloromethane		< 2.00	ug/L		10/4/2018	16:55
cis-1,2-Dichloroethene		< 2.00	ug/L		10/4/2018	16:55
cis-1,3-Dichloropropene	2	< 2.00	ug/L		10/4/2018	16:55
Cyclohexane		< 10.0	ug/L		10/4/2018	16:55
Dibromochloromethane		< 2.00	ug/L		10/4/2018	16:55
Dichlorodifluoromethar	ie	< 2.00	ug/L		10/4/2018	16:55
Ethylbenzene		< 2.00	ug/L		10/4/2018	16:55
Freon 113		< 2.00	ug/L		10/4/2018	16:55
Isopropylbenzene		< 2.00	ug/L		10/4/2018	16:55
m,p-Xylene		< 2.00	ug/L		10/4/2018	16:55
Methyl acetate		< 2.00	ug/L		10/4/2018	16:55
Methyl tert-butyl Ether		< 2.00	ug/L		10/4/2018	16:55
Methylcyclohexane		< 2.00	ug/L		10/4/2018	16:55
Methylene chloride		< 5.00	ug/L		10/4/2018	16:55
o-Xylene		< 2.00	ug/L		10/4/2018	16:55
Styrene		< 5.00	ug/L		10/4/2018	16:55
Tetrachloroethene		< 2.00	ug/L		10/4/2018	16:55
Toluene		< 2.00	ug/L		10/4/2018	16:55
trans-1,2-Dichloroethen	e	< 2.00	ug/L		10/4/2018	16:55
trans-1,3-Dichloroprope	ene	< 2.00	ug/L		10/4/2018	16:55
Trichloroethene		< 2.00	ug/L		10/4/2018	16:55
Trichlorofluoromethane		< 2.00	ug/L		10/4/2018	16:55
Vinyl chloride		< 2.00	ug/L		10/4/2018	16:55



Client: Ravi Engineering & Land Surveying, P.C.

Project Reference: 3130 Monroe Ave 45-17-008

Sample Identifier: MW-4-2018

Lab Sample ID:184515-04Date Sampled:10/1/2018Matrix:GroundwaterDate Received:10/2/2018

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Analy	vzed
1,2-Dichloroethane-d4	102	80.7 - 121		10/4/2018	16:55
4-Bromofluorobenzene	92.0	74.3 - 121		10/4/2018	16:55
Pentafluorobenzene	93.6	86.2 - 111		10/4/2018	16:55
Toluene-D8	94.5	86.2 - 112		10/4/2018	16:55

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x54776.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "J" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.

 "(1)" = Indicates data from primary solven used for OC calculation.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB. Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against

any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

CHAIN OF CUSTODY

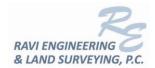
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	. 1	go Il						(1) (1) (1) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	e a			· A
	SAMPLE NUMBER	KS	REMARKS			z - Þ	- ¤ -	SAMPLE IDENTIFIER	nt in	. w o	COLLECTED	DATE COLLECTED
	PARADIGM LAB	i s Barro				- Z O			104 H	⊽ ≅ ໐ ເ		9.0
				ANALYSIS	REQUESTED ANA	C						
	OL - Oil AR - Air	WP - Wipe CK - Caulk	SD - Solid ge PT - Paint	SO - Soil SL - Sludge	DW - Drinking Water WW - Wastewater	DW -	WA - Water WG - Groundwater	Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	NQ - Non-	AUE	3008	48-17
Chi	2010A	mostan a sax	Swe			Z.	ATTN:	Morton	ATTN: Dek	NCE	PROJECT REFERENCE	Ę
			Email:			NE:	PHONE:	5-645-8295	PHONE:			
		n #:	Quotation #:	ZIP:	STATE:	7.	ZIP OITY:	STATE:	CITY:	7		
		S15 H S	\ \ \ S		- 1	ADDRESS:	ADD	,	ADDRESS:			
		LAB PROJECT ID			Ame	T.	CLIENT:	4	CLIENT: RA	ž -	ADION	TAN
				To:	INVOICE TO:			REPORT TO:				U ^ U

See additional page for sample conditions.



Chain of Custody Supplement

Client:	Ravi	Completed by:	Glenn Pezzulo 10/2/18
Lab Project ID:	184515	Date:	10/2/18
		ion Requirements 10/241/242/243/244	
Condition	ELAC compliance with the sample Yes	e condition requirements upo No	n receipt N/A
Container Type	×		
Comments	1		······································
Transferred to method- compliant container			X
Headspace (<1 mL) Comments			
Preservation Comments			
Chlorine Absent (<0.10 ppm per test strip) Comments			
Holding Time Comments			
Temperature Comments	13°C iced started in	field 10/1/18	17:25
Sufficient Sample Quantity Comments	· F		
,			



Appendix D Low Flow Sampling Data Logs



Site Locat	ion: Sno	مرارد راد	anor ⁱ c 2	130 Ma	nroe Ave	anue	Well ID: HLA-MW-2						
Client: Ch					iii de Avi	enue	START Depth to Water: 6.8 ft bgs						
Project Nu				- y				o Bottor			<u>, s</u>		
Date of Sa			-Z F							meter P	VC		
Field Pers										nny, 25°			
PURGING N			icnumn	low flow						01 ft bgs			
PUNGING	VIETHOD.	Peristait	ic pump,	low now			rump ii	itake De	ριπ. 12.	or it bgs	•		
			SPEC	CIEIC									
Time		4:4)			D. J. D		DICCOLVE	D OWNCEN	TURBIDI	TY (NTU)	TEN 4051	ATURE	
Elapsed	pH (± U	.1 unit)	CONDU		Redox P (mV)(±		(MG/L	D OXYGEN) (10%)	(10%	%>5)	TEMPER (degrees		FLOW RATE
(Min)			(mS/cn										(ml/min)
	READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE %	READING	CHANGE %		CHANGE	
0	5.85		0.001		69		18.59		18.4		7.46		
5	5.87	-0.02	0.001	0	89	-20	16.62	10.6	18.8		7.62	-2.145	
10	5.9	-0.03	0.001	0	98	-9	15.82	4.8	18.5	1.596		-2.756	
15	5.96	-0.06	0.001	0	99	-1	15.42	2.5		-2.162		-2.299	
20	5.96	0	0.001	0	97	2	15.21	1.4	18	4.762	8.1	-1.124	
25													
30													
35													
40													
45													
50													
55													
60													
65													
70													
75													
80													
85													
90													
95													
100													
105													



Site Locat	ion: Spe	edv's Cle	eaner's 3	130 Mo	nroe Ave	enue	Well ID:	MW-2					
Client: Ch						31.0.0		Depth to W	/ater: 13	3 ft bgs			
Project Nu				- 1				o Bottom:					
Date of Sa							•	ormation:		,5			
Field Pers								r Conditio		nv. 25° F			
PURGING N			ic pump.	low flow				ntake Dept		•			
			SPEC	CIFIC									
Time	nH (+ 0	.1 unit)	CONDU	CTIVITY	Redox P	otential	DISSOLVI	ED OXYGEN		TY (NTU)	TEMPE	RATURE	FLOW
Elapsed	pri (± 0	. i aine,	(mS/cr		(mV)(±			L) (10%)	(10%	%>5)		s C) (3%)	RATE
(Min)	READING	CHANGE	READING	% CHANGE	READING	CHANGE	READING	% CHANGE	READING	% CHANGE	READING	% CHANGE	(ml/min)
0	6.83	CIVITOL	2.06	70 617 1116	-92	CITATOL	6.52	70 CH7114GE	127	70 0117 (1102	8.37	70 611/11462	
5	6.84	-0.01	2.06	0	-100	8	6.01	7.82209	115	9.449		-1.553	
10	6.83	0.01	2.03	1.456		-5	6.18	-2.8286	41			-1.059	
15	6.82	0.01	2.00	1.478	-98	3	5.58		22.3			-8.033	
20	6.82	0.01	2.00	0	-101	3	5.37	3.76344	19.2			-2.586	
25	6.82	0	2.00	0	-103	2		5.21415	21.3			-0.105	
30	0.01						0.00					0.1200	
35		Well	ran dry.	Sample	was coll	ected w	hen the	well had s	ufficient	ly recha	rged.		
40			,							[
45													
50													
55													
60													
65													
70													
75													
80													
85													
90													
95													
100													
105													



Site Locat	ion: Spe	edy's Cl	eaner's	3130 Mc	nroe Av	Well ID: MW-3								
Client: Ch	ristophe	r Williar	ns Ager	тсу			START Depth to Water: 10.7 ft bgs							
Project No	umber: 4	15-15-04	12 P				Depth to Bottom: 15 ft bgs							
Date of Sa	ampling:	3-2-17					Well Information: 2" PVC							
Field Pers	onnel: L	Z, AH					Weather Conditions: Sunny, 25° F							
PURGING	METHOD	: Peristal	tic pump	o, low flo	w		Pump Intake Depth: 14 ft bgs							
T '	SPECIFIC													
Time	pH (± 0	.1 unit)	CONDU	ICTIVITY	Redox P	otential		D OXYGEN	TURBIDI (109	TY (NTU) «>5)	TEMPE	RATURE	FLOW	
Elapsed			(mS/cr	n) (3%)	(mV)(±	10 mV)	(MG/L) (10%)	(10)	0/3/	(degrees	s C) (3%)	RATE	
(Min)	READING	CHANGE	READING	% CHANGE	READING	CHANGE	READING	% CHANGE	READING	% CHANGE	READING	% CHANGE	(ml/min)	
0	6.89		0.875		84		14.63		20.4		9.83			
5	6.85	-0.04	0.882	-0.8	100	-16	12.37	15.45	16.2	20.59	9.8	0.305		
10	6.82	-0.03	0.889	-0.794	102	-2	10.82	12.53	12.6	22.22	9.76	0.408		
15	6.8	-0.02	0.896	-0.787	102	0	10.02	7.394	11.7	7.143	9.81	-0.512		
20	6.81	0.01	0.907	-1.228	101	1	8.94	10.78	11.2	4.274	9.86	-0.51		
25	6.81	0	0.921	-1.544	98	3	8.08	9.62	10.2	8.929	10.02	-1.623		
30	6.82	0.01	0.937	-1.737	95	3	7.31	9.53	10.1	0.98	9.96	0.599		
35	6.83	0.01	0.941	-0.427	89	6	7.07	3.283	9.8	2.97	10.01	-0.502		



Site Locat	ion: Spec	edv's Cle	eaner's 3	130 Mo	nroe Av	enue	e Well ID: MW-4								
Client: Chi	<u> </u>	-				31.0.0	START Depth to Water: 8.65 ft bgs								
Project Nu				-1				-			-6-				
Date of Sa							Depth to Bottom: 15 ft bgs Well Information: 2" PVC								
Field Pers							Weather Conditions: Sunny, 25° F								
PURGING N			ic pump.	low flow			Pump Intake Depth: 14 ft bgs								
			- 1- 1-/				i unip intuke Deptili. 17 it bgs								
	SPECIFIC														
Time	pH (± 0	.1 unit)	CONDU	CTIVITY	Redox P	otential	DISSOLVE	D OXYGEN		TY (NTU)	TEMPEI	RATURE	FLOW		
Elapsed	p (= 0	,	(mS/cn	n) (3%)	(mV)(±	10 mV)	(MG/L	(10%)	(109	%>5)	(degree:	s C) (3%)	RATE		
(Min)	READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	% CHANGE	READING	% CHANGE	READING	% CHANGE	(ml/min)		
0	6.46		0.001		104		16.45	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	23.8	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	8.33	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
5	6.4	0.06	0.001	0	85	19	16.11	2.067	23.8	0	8.17	1.921			
10	6.35	0.05	0.001	0	66	19	16.05		23.6	0.84	8.03	1.714			
15	6.27	0.08	0.001	0	55	11	15.91		22.1	6.356	7.91	1.494			
20	6.31	-0.04	0.001	0	36	19			22.4	-1.357	7.78				
25	6.34	-0.03	0.001	0	27	9			21.5	4.018		2.057			
30	6.2	0.14	0.001	0	37	-10	15.4		21	2.326					
35	6.12	0.08	0.001	0	28	9	15.28	0.779	21.5	-2.381	7.43	1.72			
40															
45															
50															
55															
60															
65															
70															
75															
80															
85															
90															
95															
100															
105															



Site Location: Speedy's	Cleaner	's 3130 N	∕lonroe A	venue	Well ID: HLA-MW-2-2018								
Client: Christopher Wil							START Depth to Water: 7.21ft bgs/ End depth 7.19						
Project Number: 45-15	5-042 P						Depth to Bottom: 13 ft bgs						
Date of Sampling: 10/1	L/18						Well Information: 1"Diameter PVC						
Field Personnel: LZ, W	М						Weather Conditions: 51F, Cloudy						
PURGING METHOD: Peri	staltic pur	np, low fl	ow				Pump Intake Depth: 10.5 ft bgs						
	pH (± 0	.1 unit)	SPECIFIC CO	ONDUCTIVITY	Redox Pote	ential (mV)(DISSOLVED OXYGEN		TURBIDITY (NTU)		TEMPERAT	URE (degrees	FLOW
Time Elapsed (Min)	-	1		m) (3%)	± 10			L) (10%)		%>5)		(3%)	RATE (ml/min)
2	READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE %	READING	CHANGE %	READING	CHANGE	
0	7.59		0.002	50	-115	27	10.61	6.0	185	45.676	16.71	_	
5	6.59	1	0.001	50	-78 7 2	-37	9.88	6.9	214	-15.676	16.71	0	
10	6.6	-0.01	0.001	0	-73	-5	9.56	3.2	218	-1.8692	16.61	0.59844	
15	6.88	-0.28	0 003	100	-75	2	9.45	1.2	218	1 27615	16.51	0.60205	
20	6.89	-0.01	0.002	#DIV/0!	-72	-3	9.28	1.8	215	1.37615	16.42	0.54512	
25	6.92	-0.03	0.002	150	-68	-4	9.06	2.4	211	1.86047	16.38	0.24361	
30 35	6.9 6.89	0.02	0.005	-150 80	-63 -58	-5 -5	8.85 8.67	2.3	203	3.79147 0.49261	16.37	0.06105	
40	6.85	0.01	0.001	-400	-56 -51	-5 -7	8.56	1.3	202	-0.495	16.34 16.28	0.18326 0.3672	
45	6.92	-0.07	0.003	40	-51	2	8.5	0.7	203	-0.493	16.28	0.55283	
50	6.94	-0.07	0.003	33.3333	-52	-1	8.27	2.7	204	0.4920	16.13	0.3706	
55	6.93	0.01	0.002	-100	-50	-2	8.24	0.4	203	0.4902	16.05	0.49597	
60	7.14	-0.21	0.004	50	-57	7	8.18	0.4	203	-0.4926	15.97	0.49337	
65	7.17	-0.03	0.002	-50	-55	-2	8.13	0.6	203	0.4902	15.9	0.43832	
70	7.36	-0.19	0.002	33.3333	-67	12	8.1	0.4	205	-0.9852	15.81	0.56604	
75	7.22	0.14	0.003	-50	-59	-8	7.91	2.3	203	0.97561	15.8	0.06325	
80	7.09	0.13	0.004	-33.333	-53	-6	7.7	2.7	203	0	15.74	0.37975	
85	7.07	0.02	0.002	50	-51	-2	7.64	0.8	195	3.94089	15.68	0.38119	
90	7.07	0	0.001	50	-48	-3	7.59	0.7	197	-1.0256	15.59	0.57398	
95	7.04	0.03	0.001	0	-38	-10	7.6	-0.1	199	-1.0152	15.46	0.83387	
100	6.71	0.33	0.000	100	-30	-8	7.62	-0.3	199	0	15.26	1.29366	
105	6.76	-0.05	0.000	#DIV/0!	-27	-3	7.68	-0.8	205	-3.0151	14.99	1.76933	
110	6.78	-0.02	0.000	#DIV/0!	-25	-2	7.71	-0.4	209	-1.9512	14.81	1.2008	
115	7.05	-0.27	0.003	#DIV/0!	-39	14	7.84	-1.7	211	-0.9569	14.62	1.28292	
120	7.03	0.02	0.000	96.6667	-44	5	7.58	3.3	204	3.31754	14.78	-1.0944	
									-	<u>.</u>			



Client: Christopher Williams Agency	Site Loca	ation: Spe	eedy's Cl	eaner's 3	130 Monro	oe Avenu	Well ID: MW-2-2018								
Date of Sampling: 9/28/18 Well Information: 2"PVC						/		START Depth to Water: 13.51 ft bgs							
Field Personnel: LZ, WM Weather Conditions: 51 F, Cloudy															
PURGING METHOD: Peristaltic pump, low flow Pump Intake Depth: 14.5 ft. bgs Pump Intake Depth: 14.5 ft. bgs															
Time Elapsed (Min) PH (± 0.1 unit) PH (± 0.								,							
Time Elapsed (Min) pH (± 0.1 unit) Redox Potential (mV)(±10 mV) DISSOLVED OXYGEN (MG/L) (10%) TURBIDITY (NTU) (10%>5) TEMPERATURE (degrees C) (3%) FLOW RATE (ml/min) 0 7.3 0.008 -108 8.58 206 14.4 0 5 7.3 0 0.008 0 -108 0 8.58 206 14.4 0 10 7.2 0.1 0 100 -132 24 8.46 1.4 213 -3.3981 14.22 1.25 15 7.27 -0.07 0.001 #DIV/0! -123 -9 8.26 2.4 213 0 14.18 0.28129 20 7.17 0.1 0.001 0 -110 -13 6.61 20.0 214 -0.4695 14.12 0.42313	PL	JRGING M	IETHOD: F	Peristaltic	pump, low	flow		Pump Intake Depth: 14.5 ft. bgs							
Time Elapsed (Min) pH (± 0.1 unit) Redox Potential (mV)(±10 mV) DISSOLVED OXYGEN (MG/L) (10%) TURBIDITY (NTU) (10%>5) TEMPERATURE (degrees C) (3%) FLOW RATE (ml/min) 0 7.3 0.008 -108 8.58 206 14.4 0 5 7.3 0 0.008 0 -108 0 8.58 206 14.4 0 10 7.2 0.1 0 100 -132 24 8.46 1.4 213 -3.3981 14.22 1.25 15 7.27 -0.07 0.001 #DIV/0! -123 -9 8.26 2.4 213 0 14.18 0.28129 20 7.17 0.1 0.001 0 -110 -13 6.61 20.0 214 -0.4695 14.12 0.42313		ı		1		T				T		1		_	
0 7.3 0.008 -108 8.58 206 14.4 5 7.3 0 0.008 0 -108 0 8.58 0.0 206 0 14.4 0 10 7.2 0.1 0 100 -132 24 8.46 1.4 213 -3.3981 14.22 1.25 15 7.27 -0.07 0.001 #DIV/0! -123 -9 8.26 2.4 213 0 14.18 0.28129 20 7.17 0.1 0.001 0 -110 -13 6.61 20.0 214 -0.4695 14.12 0.42313	1		1	(mS/c					L) (10%)	(10	9%>5)	C)	(3%)		
5 7.3 0 0.008 0 -108 0 8.58 0.0 206 0 14.4 0 10 7.2 0.1 0 100 -132 24 8.46 1.4 213 -3.3981 14.22 1.25 15 7.27 -0.07 0.001 #DIV/0! -123 -9 8.26 2.4 213 0 14.18 0.28129 20 7.17 0.1 0.001 0 -110 -13 6.61 20.0 214 -0.4695 14.12 0.42313			CHANGE		% CHANGE		CHANGE		% CHANGE		% CHANGE		% CHANGE		
10 7.2 0.1 0 100 -132 24 8.46 1.4 213 -3.3981 14.22 1.25 15 7.27 -0.07 0.001 #DIV/0! -123 -9 8.26 2.4 213 0 14.18 0.28129 20 7.17 0.1 0.001 0 -110 -13 6.61 20.0 214 -0.4695 14.12 0.42313									0.0						
15 7.27 -0.07 0.001 #DIV/0! -123 -9 8.26 2.4 213 0 14.18 0.28129 20 7.17 0.1 0.001 0 -110 -13 6.61 20.0 214 -0.4695 14.12 0.42313							_				_				
20 7.17 0.1 0.001 0 -110 -13 6.61 20.0 214 -0.4695 14.12 0.42313															
25 7.09 0.08 0 100 -104 -6 5.03 23.9 215 -0.4673 14.07 0.35411					_										
	25	7.09	0.08	0	100	-104	-6	5.03	23.9	215	-0.4673	14.07	0.35411		
												-			



Site Location: Spec	edy's Clea	aner's 31	30 Monre	oe Avenue	!	Well ID: MW-3-2018								
Client: Christophe							START Depth to Water: 10.7 ft bgs							
Project Number: 4	5-15-042	2 P					Depth to	Bottom: 1	L5 ft bgs					
Date of Sampling:	9/28/18						Well Info	rmation: 2	2" PVC					
Field Personnel: LZ	z, WM						Weather	Condition	s: 51 F, C	loudy				
PURGING METHOD:	Peristalti	c pump, l	ow flow				Pump Intake Depth: 14 ft bgs							
			SPECIFIC CC	NDUCTIVITY										
Time Elapsed	pH (± 0	.1 unit)	(mS/cm) (3%)		Redox Pote			D OXYGEN L) (10%)		ITY (NTU) %>5)		JRE (degrees (3%)		
(Min)	READING	CHANGE	READING	% CHANGE	READING	CHANGE	READING	% CHANGE	READING	% CHANGE	READING	% CHANGE	FLOW RATE (ml/min)	
0	7.57		0.001		-115		7.50		220		13.97			
5	7.46	0.11	0.001	0	-111	-4	7.37	1.7	219		14.09	-0.859		
10	7.30	0.16	0.000	100	-87	-24	7.21	2.2	216			-1.7743		
15	7.18	0.12	0.000		-88	1	7.18	0.4	214		14.44	-0.6974		
20	7.28	-0.1		#DIV/0!	-105	17	7.15	0.4	213	0.46729	14.49	-0.3463		
25	7.28	0		#DIV/0!	-120	15	7.16	-0.1	212	0.46948	14.53	-0.2761		
30	7.28	0		#DIV/0!	-121	1	7.15	0.1	212	0		0		
35	7.28	0		#DIV/0!	-128	7	7.10	0.7	212	0	14.53	0		
40	7.28	0	0.000	#DIV/0!	-127	-1	7.01	1.3	212	0	14.53	0		



Cita Lacatia C		1 1	2420 84				Mall ID: MM 4 2040							
Site Location: S				nroe Ave	nue		Well ID: MW-4-2018 START Depth to Water: 8.65 ft bgs							
Client: Christop			су							tt bgs				
Project Number								Bottom: 1						
Date of Samplin								ormation: 2						
Field Personnel								Condition						
PURGING METHO	D: Perista	iltic pump	, low flow	1			Pump Intake Depth: 14 ft bgs							
			SPECIFIC CO	NDUCTIVITY					TURRIDI	TY (NTU)				
Time Elapsed	pH (± 0	.1 unit)			Redox Pote			ED OXYGEN		%>5)		URE (degrees	FLOW RATE	
(Min)				n) (3%)	± 10			L) (10%)	1			(3%)	(ml/min)	
	READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	% CHANGE	READING	% CHANGE	READING	% CHANGE		
0	6.85		0.001		-130		8.37		217		14.12			
5	6.91	-0.06	0.001	0		-4	7.89	5.7	215			-1.9122		
10	6.83	0.08	0.001	0		-19	7.64	3.2	212	1.39535				
15	6.78	0.05	0.002	-100		-3	7.46	2.4	209			-1.7065		
20	6.78	0	0.002	0		4	7.3	2.1	207			-1.1409		
25	6.78	0	0.002	0	-110	2	7.21	1.2	203	1.93237	15.13	-0.3981		
30	6.83	-0.05	0.002	0	-114	4	7.12	1.2	201	0.98522	15.17	-0.2644		



Appendix E Data Usability Summary Reports

DATA USABILITY SUMMARY REPORT (DUSR)

3130 Monroe Ave. Rochester, NY NYSDEC BCP # C 828109

SDG: C1703065

3 Air Samples

Prepared for:

Ravi Engineering & Land Surveying, P.C. 2110 South Clinton Avenue, Suite 1 Rochester, NY 14618

May 2017



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Table Table		Data Validation Guidance Documents Ouality Control Criteria for Validating Laboratory Analytical	Data

Summaries of Validated Results

Table 6-1 TO-15

REVIEWER'S NARRATIVE SDG C1703065

The data associated with this Sample Delivery Group (SDG) C1703065, analyzed by Centek Laboratories, LLC Syracuse, NY have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry

Chemist

1.0 SUMMARY

SITE:

3130 Monroe Avenue

Rochester, NY

SAMPLING DATE:

March 21, 2017

SAMPLE TYPE:

3 air samples

LABORATORY:

Centek Laboratories, LLC

Syracuse, NY

SDG No.:

C1703065

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 3 air samples collected on March 21, 2017. These samples were analyzed for TO-15 volatile organic compounds.

All laboratory analyses were performed by Centek Laboratories, LLC, Syracuse, NY and analyzed as SDG C1703065. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
	USEPA, 2008, Validating Volatile Organic Compounds By Gas
	Chromatography/Mass Spectrometry; SW-846 Method 8260B;
	SOP # HW-24, Rev. 2.
VOCs	
	USEPA, 2008, Statement of Work for Organic Analysis of
	Low/Medium Concentration of Volatile Organic
	Compounds SOM01.2; SOP HW-33, Rev. 2.
	USEPA, 2007, Statement of Work for Organic Analysis of
SVOCs	Low/Medium Concentration of Semivolatile Organic
	Compounds SOM01.2; SOP HW-35, Rev. 1.
	USEPA, 2006, CLP Organics Data Review and Preliminary
Pesticides/PCBs	Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14,
	Part C.
	USEPA, 2006, Validation of Metals for the Contract Laboratory
Metals	Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13),
	SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis
}	of Ambient Air in Canister by Method TO-15; SOP # HW-31,
(Ambient air)	Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING
LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg Sample Condition Holding Time System Monitoring Compounds Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Matrix Spikes Blanks Instrument Calibration & Verification Analyte ID Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Initial/Continuing Calibration CRDL Standards Blanks Interference Check Sample Spike Recoveries Lab Duplicate Lab Control Sample ICP Serial Dilutions Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Times Calibration Lab Control Samples Blanks Spike Recoveries Lab Duplicates	Completeness of Pkg Sample Condition Holding Time Canister Certification Lab Control Sample Instrument Tuning Blanks Initial Calibration & System Performance Daily Calibration Field Duplicate

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

- U The analyte was analyzed for but was not detected at or above the sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
- JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Table 6-1. The table lists the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG C1703065, three samples were analyzed and results were reported for 192 analyses. Even though some results were flagged with a "J" as estimated, all results (100%) are considered usable. See the summary table for the flagged analytes and the associated QC reasons.

C1703065

Table 6-1 TO-15

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All undiluted samples	Bromomethane Freon 11 Methyl butyl ketone Vinyl Bromide	J detects	LCS >130 %	Detected results are estimated
All undiluted samples	Isopropyl Alcohol	J detects/UJ non-detects	CCV > 30 %	Results are estimated

ACRONYMS

BSP Blank Spike

CCAL Continuing Calibration

CCB Continuing Calibration Blank

CCV Continuing Calibration Verification

CRDL Contract Required Detection Limit

CRQL Contract Required Quantitation Limit

%D Percent Difference

ICAL Initial Calibration

ICB Initial Calibration Blank

IS Internal Standard

LCS Laboratory Control Sample

MS/MSD Matrix Spike/Matrix Spike Duplicate

QA Quality Assurance

QC Quality Control

%R Percent recovery

RPD Relative Percent Difference

RRF Relative Response Factor

%RSD Percent Relative Standard Deviation

TAL Target Analyte List (metals)

TCL Target Compound List (organics)

Appendix A

Validated Analytical Results



Analytical Report

Lynn Zicari
Ravi Engineering & Land Surveying, P.C.
2110 South Clinton Avenue, Suite 1
Rochester, NY 14618

TEL: (585) 223-3660

FAX

RE: 3130 Monroe

Dear Lynn Zicari:

Tuesday, March 28, 2017 Order No.: C1703065

Centek Laboratories, LLC received 3 sample(s) on 3/23/2017 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Centek Laboratories SOP TS-80

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Centek Laboratories, LLC

This report cannot be reproduced except in its entirety, without prior written authorization.

Sincerely,

William Dobbin

Lead Technical Director

well Dall

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages. ELAP does not offer certification for the following parameters by this method at present time, they are: 4-ethyltoluene, ethyl acetate, propylene, tetrahydrofuran, 4-PCH, sulfur derived and silcon series compounds.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any dameges of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples: Same day TAT = 200%

Next business day TAT by Noon = 150%

Next business day TAT by 6:00pm = 100%

Second business day TAT by 6:00pm = 75%

Third business day TAT by 6:00pm = 35%

Fourth business day TAT by 6:00pm = 35%

Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of

liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.



Date: 13-Apr-17

CLIENT:

Ravi Engineering & Land Surveying, P.C.

Project:

3130 Monroe

Lah Order:

C1703065

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Centek Laboratories, LLC SOP TS-80

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

NYSDEC ASP samples:

Canisters should be evacuated to a reading of less than or equal to 50 millitors prior to shipment to sampling personnel. The vacuum in the canister will be field checked prior to sampling, and must read 28" of Hg (±2", vacuum, absolute) before a sample can be collected. After the sample has been collected, the pressure of the canister will be read and recorded again, and must be 5" of Hg (±1", vacuum, absolute) for the sample to be valid. Once received at the laboratory, the canister vacuum should be confirmed to be 5" of Hg,±1". Please record and report the pressure/vacuum of received canisters on the sample receipt paperwork. A pressure/vacuum reading should also be taken just prior to the withdrawal of sample from the canister, and recorded on the sample preparation log sheet. All regulators are calibrated to meet these requirements before they leave the laboratory. However, due to environmental conditions and use of the equipment Centek can not guarantee that this criteria can always be achieved.

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Date: 13-Apr-17

The second secon CLIENT:

Ravi Engineering & Land Surveying, P.C.

Project:

3130 Monroe

Lab Order:

C1703065

C1703065-003A OS-1-20170321

Work Order Sample Summary

Exell Classics	4,1,1,0000				*****
Lab Sample ID C1703065-001A	Client Sample ID AS-1-20170321	Tag Number 189,378	Collection Date 3/21/2017	Date Received 3/23/2017	
C1703065-002A	AS-2-20170321	333,109	3/21/2017	3/23/2017	
C1703065-003A	OS-1-20170321	479,155	3/21/2017	3/23/2017	

Centek Laboratories, LLC

CLIENT: Ravi Engineering & Land Surveying, P.C.

Lab Order: C1703065

Project: 3130 Monroe

Lab 10: C1703065-001A

Date: 30-Mar-17

Client Sample ID: AS-1-20170321

Tag Number: 189,378

Collection Date: 3/21/2017

Matrix: AIR

Analyses	Result	**Limit Qua	i Units	DF	Date Analyzed
FIELD PARAMETERS		FLD	, 120		Analyst:
Lab Vacuum in	~ 1		"Hg		3/23/2017
Lab Vacuum Out	-30		™g		3/23/2017
IUG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15			Analyst: RJP
1,1.1-Trichlorophane	< 0.15	0.15	ppbV	1	3/23/2017 11:26:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15	ppbV	曹	3/23/2017 11:26:00 PM
1,1,2-Trichloroethane	< 0.15	0.15	pp5Y	1	3/23/2017 11:26:00 PM
1,1-Dichioraethane	< 0.15	0.15	ppbV	1	3/23/2017 11:26:00 PM
1,1-Dichloroethene	< 0.15	0.15	Vdqq	1	3/23/2017 11:26:00 PM
1,2,4-Tricklorobenzene	< 0.15	0.15	ppbV	1	3/23/2017 11:26:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15	bbpA	1	3/23/2017 11:26:00 PM
1,2-Dibromoethane	< 0.15	0.15	PpbV	4	3/23/2017 11:26:00 PM
1,2-Dichlorobenzene	< 0.15	0.15	PODV	9	3/23/2017 11:26:00 PM
1,2-Dichloroethane	< 0.15	0.15	opbV	-	3/23/2017 11:26:00 PM
1,2-Dichloropropane	< 0.15	0.15	Váqq	1	3/23/2017 11:26:00 PM
1,3.5-Trimethylbenzene	< 0.15	0.15	Vdqq	1	3/23/2017 11:26:00 PM
1,3-butadiene	< 0.15	0,15	Vdqq	1	3/23/2017 11:26:00 PM
1,3-Dichlorobenzene	< 0.15	0.15	ppbV	1	3/23/2017 11:26:00 PM
1,4-Dichlorobenzene	< 0.15	0.15	Vdqq	1	3/23/2017 11:26:00 PM
1,4-Dioxane	< 0.30	0.30	pob\/	1	3/23/2017 11:26:00 PM
2,2,4-trimethylpentene	< 0.15	0.15	ppoV	1	3/23/2017 11:26:00 PM
4-ethykoluene	< 0.15	0.15	٧٥وو	1	3/23/2017 11:26:00 PM
Acetone	780	81	P00V	270	3/24/2017 10:03:00 PM
Allyl chloride	< 0.15	0.15	pobW	1	3/23/2017 11:26:00 PM
Senzens	0.29	0.15	₽₽₽V	1	3/23/2017 11:25:00 PM
Benzyl chloride	< 0.15	0.15	ppbV	1	3/23/2017 11:26:00 PM
Bromodichioromethane	≤ 0.15	0.15	ppbV	7	3/23/2017 11:26:00 PM
Brestoform	< 0.15	0.15	pobV	1	3/23/2017 11:26:00 PM
Bromemethane	< 0.15	UJ 0.15	pobV	7	3/23/2017 11:26:00 PM
Carbon disulfide	< 0.15	0.15	ppbV	1	3/23/2017 11:26:00 PM
Carbon tetrachloride	0.050	0.040	ppbV	eg e	3/23/2017 11:28:00 PM
Chlorobenzene	< 0.15	0.15	pobV	4	3/23/2017 11:26:00 PM
Chloroethane	< 0.15	0.15	ppbV	1	3/23/2017 11:26:00 PM
Chloroform	< 0.15	0.15	Vága	1	3/23/2017 11:26:00 PM
Chloromethane	0.65	0.15	ppbV	i	3/23/2017 11:28:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15	Sopv	1	3/23/2017 11:26:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15	ppbV	1	3/23/2017 11:26:00 PM
Cyclohexane	< 0.15	0.15	psbV	9	3/23/2017 11:28:00 PM
Oibromochloromethane	< 0.15	0.15	000/	4	3/23/2017 11:26:00 PM
Ethyl acetate	14	4.0	DDDA Mar	, 27	3/24/2017 9:25:00 PM

Quelifierai

- ** Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- IN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- Results reported are not blank corrected
- E Estimated Value above quantitation range
- Analyte detected below quantitation limit
- ND Not Described at the Limit of Detection

Page 1 of 6

Centek Laboratories, LLC

CLIENT: Ravi Engincering & Land Surveying, P.C.

Lab Order: C1703065

Project: 3130 Monroe

Lab ID: C1703065-001A Date: 30-Mar-17

Client Sample 1D: AS-1-20170321

Tag Number: 189,378 Collection Date: 3/21/2017

Matrix: AIR

			• ***			********	
Analyses	Result	9	**Limit	Quat	Units	DF	Date Analyzed
IUG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO	-15			Analyst: RJP
Ethylbenzene	< 0.15		0.15		ppbV	1	3/23/2017 11:26:00 PM
Freon 11	0.29	J	9.15		₽₽ ⊅ V	1	3/23/2017 11:26:00 PM
Freon 113	< 0.16		0.15		ppbV	· 1	3/23/2017 11:26:00 PM
Freon 114	< 0.15		0,15		ppbV	1	3/23/2017 11:26:00 PM
Freen 12	0.41		0.15		ppbV	1	3/23/2017 11:26:00 PM
Heplane	< 0.15		0.15		ppbV	\$	3/23/2017 11:26:00 PM
Hexachloro-1,3-butadiene	< 0.15		0.15		ppbV	1	3/23/2017 11:26:00 PM
Hexane	< 0.15		0.15		Vdqq	1	3/23/2017 11:28:00 PM
isopropyl alcohol	110		40		pobV	270	3/24/2017 10:03:00 PM
m&p-Xylene	0.14		0.30	Ĵ	Vdaa	4	3/23/2017 11:26:00 PM
Methyl Butyl Kelone	< 0.30	นร	0.30		pobV	49	3/23/2017 11:26:00 PM
Methyl Ethyl Ketone	5.1		8.1	, j	bbpA	27	3/24/2017 9:25:00 PM
Methyl isobutyl Ketone	< 0.30		0.30		ppbV	7	3/23/2017 11:26:00 PM
Methyl text-bulyl ether	< 0.15		0.16		Vdqq	1	3/23/2017 11:26:00 PM
Methylene chloride	0.23		0.15		ppbV	1	3/23/2017 11:26:00 PM
o-Xylene	< 0.15		0.15		ppbV	1	3/23/2017 11:26:00 PM
Propylene	< 0.15		0.15		ppbV	7	3/23/2017 11:26:00 PM
Styrene	< 0.15		0,15		ppbV	4	3/23/2017 11:28:00 PM
Tetrachlomethylene	4.6		4.0		ppbV	27	3/24/2017 9:25:00 PM
Telrahydroferan	< 0.15		0.15		ppbV	1	3/23/2017 11:26:00 PM
Tokene	0.93		0.15		Vágq	ę.	3/23/2017 11:26:00 PM
trans-1,2-Dichloroethene	< 0.15		0.15		ppbV		3/23/2017 11:26:00 PM
irans-1,3-Dichloropropene	< 0.15		0.15		Vđạq	1	3/23/2017 11:26:00 PM
Trichloroethene	0.10		0.040		ppbV	1	3/23/2017 11:26:00 PM
Vinyi acetale	< 0.15		0.15		apbV	1	3/23/2017 11:26:00 PM
Vinyi Stomide	< 0.15	W	0.15		opbV	1	3/23/2017 11:26:00 PM
Vinyi chioride	< 0.040		0.040		ppbV	1	3/23/2017 11:28:00 PM
Sur: Bremofluorobenzene	91.0		70-130		WREC	1	3/23/2017 11:26:00 PM

MKP 5/11/17

Qualifiers:

- Quantitation Limit
- В Analyte detected in the associated Method Blank
- 11 Holding times for preparation or analysis exceeded
- IN Non-routine analyse. Quantitation estimated,
- Spike Recovery outside accepted recovery limits
- Results reported are not blank corrected
- E Estimated Value above quantitation range
- Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

CLIENT: Ravi Engineering & Land Surveying, P.C.

Lab Order: C1703065

Project: 3130 Monroe

Lab ID: C1703065-001A

Date: 30-Mar-17

Client Sample ID: AS-1-20170321

Tag Number: 189,378 Collection Date: 3/21/2017

Matrix: AIR

Analyses	Result	**Limit	Qual Units	DF	Date Analyzed
IUG/NIS W/ 0.25UG/M3 CT-TCE-VC		TC	-15		Апаlyst: R.J.
1,1,1-Trichloroelinane	< 0.82	0.82	ug/m3	1	3/23/2017 11:26:00 Pf
1,1,2,2-Tetrachloroelhane	< 1.0	1.0	ug/m3	7	3/23/2017 11:26:00 Pt
1,1,2-Trichioroethane	< 0.62	0.82	£mlgu	1	3/23/2017 11:26:00 PI
1,1-Dichloroethane	< 0.61	0.61	<i>ug/a</i> n3	1	3/23/2017 11:26:00 FI
1,1-Dichloroathene	< 0.59	0.59	Emlgu	1	3/23/2017 11:25:00 PI
1,2,4-Trichlorobenzene	< 1.1	1.1	ug/m3	1	3/23/2017 11:26:00 Pt
1,2,4-Trimethylbenzene	< 0.74	0.74	ല്ലിന്ദ്രി	1	3/23/2017 11:26:00 Pt
1,2-Dibromosthane	≤1,2	1.2	Em/gu	1	3/23/2017 11:26:00 PI
1,2-Dichlorobenzene	< 0.90	0.90	មព្ <i>ព</i> ាច្រប	ş	3/23/2017 11:26:00 Pi
1,2-Dichloroethane	< 0.81	0.61	រន្ល ់ ពានិ	1	3/23/2017 11:25:00 Fi
1,2-Dichloropropane	< 0.69	0.69	ຍອູກຄວີ	1	3/23/2017 11:26:00 PI
1,3,5-Trimethylbenzene	< 0.74	0.74	ພ <i>ູລໍາ</i> ຄວ3	Cons	3/23/2017 11:26:00 PI
1,3-butadiene	< 0.33	0.33	ug/m3	1	3/23/2017 11:28:00 PI
1,3-Dichlorobenzene	< 0.90	0.90	ug/m3	q.	3/23/2017 11:26:00 PI
1,4-Dichlorobenzene	< 0.90	0.90	ug/m3	A an-	3/23/2017 11:26:00 PI
1,4-Dioxane	< 1.1	1.1	sg/m3	3	3/23/2017 11:28:00 PI
2,2,4-trimethy/pentane	< 0.70	0.70	G0/113	1	3/23/2017 11:26:00 PI
4-ethylioluane	< 0.74	0.74	uglm3	1	3/23/2017 11:28:00 PI
Acetone	1900	190	Sm\gu	270	3/24/2017 10:03:00 P
Allyl chloride	< 0.47	0.47	ug/m3	1	3/23/2017 11:26:00 PI
Benzene	0.93	0.48	<i>ug/</i> m3	1	3/23/2017 11:26:00 P
Benzyl chloride	< 0.86	0.88	ນຕູ/m3	ä	3/23/2017 11:26:00 P
Sromodichloromelhane	< 1.0	1.0	វេទ្ធវិកានិ	1	3/23/2017 11:26:00 P
Bromoform	< 1.6	1.6	£m\gu	ą	3/23/2017 11:26:00 P
Bromomelhane	< 0.58	UJ 0.58	ນລູກາເວັ	•	3/23/2017 11:26:00 PI
Carbon disulfide	< 0.47	0.47	£ <i>m</i> }gu	4	3/23/2017 11:26:00 Pi
Carbon tetrachloride	0.31	0.25	ug/m3	1	3/23/2017 11:26:00 PI
Chlorobenzene	< 0.69	0.69	ug/m3	ŧ	3/23/2017 11:26:00 P
Chloroethane	< 0.40	0.40	<i>ug/</i> m3	1	3/23/2017 11:26:00 P
Chloroform	< 0.73	0.73	ug/m3	Ė	3/23/2017 11:26:00 P
Chloromethane	1.3	0.31	ug/m3	1	3/23/2017 11:26:00 P
cis-1,2-Dichloroethena	< 0.59	0.59	សិវិយានិ	1	3/23/2017 11:26:00 P
cis-1,3-Dichloropropene	< 0.68	99.0	មន្តរាជា	1	3/23/2017 11:26:00 P
Cyclohexane	< 0.52	0.52	กติในเร	1	3/23/2017 11:26:00 P
Dibromochloromethans	< 1.3	1.3	មជ្ញវារា3	1	3/23/2017 11:26:00 P
Ethyl acetate	49	14	มลู/การ	27	3/24/2017 9:25:00 PM
Ethylbenzene	< 0.65	0.65	មព្ រុកទិ	1	3/23/2017 11:26:00 P
Freon 11	1.6	J 0.84	eg#n3	ş	3/23/2017 11:26:00 P
Freon 113	< 1,1	1.1	មព្វ/៣3	2	3/23/2017 11:26:00 P
Freon 114	< 1.0	1.0	ug/m3	4	3/23/2017 11:26:00 P

Qualifiers:

- Quantilation Limit
- B Analyte detected in the associated Method Blank
- H Holding times the preparation or analysis exceeded
- IN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- Results reported are not blank corrected
- E Estimated Value above quantitation range

 J Analyte detected below quantitation limit
- ND Not Desected at the Limit of Desection

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Centek Laboratories, LLC

CLIENT: Ravi Engineering & Land Surveying, P.C.

Lab Order: C1703065

Project: 3130 Monroe

Lab ID: C1703065-001A

Date: 30-Mar-17

Client Sample ID: AS-1-20170321

Tag Number: 189,378 Collection Date: 3/21/2017

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
IUG/M3 W/ 0.25UG/M3 CT-TCE-VC	*-	TC	-15			Analysi: RJP
Fresn 12	2.0	0.74		ගුදුණි දි	1	3/23/2017 11:28:00 PM
Heptane	< 0.61	0.61		ug/m3	7	3/23/2017 11:26:00 PM
Hexachloro-1,3-butadiene	< 1.6	1,6		<i>រល្មតែ</i> ជំ	1	3/23/2017 11:25:00 PM
Hexane	< 0.53	0.53		ug/m3	ล	3/23/2017 11:26:00 PM
isopropyt alcohol	270	98		ug/m3	270	3/24/2017 10:03:00 PM
m&p-Xylene	0.61	1.3	J	ບາງ/ກາ3	Q	3/23/2017 11:25:00 PM
Methyl Butyl Ketone	< 1.2	UJ 12		นอู/กา3	4	3/23/2017 11:26:00 PM
Methyl Ethyl Ketone	15	24	.i	นดู(กา3	27	3/24/2017 9:25:00 PM
Methyl Isobutyl Ketone	< 1,2	1.2		นอู/m3	ą	3/23/2017 11:26:00 PM
Methyl ten-buyl ether	< 0.54	0.54		ug/m3	1	3/23/2017 11:26:00 PM
Methylene chloride	0.60	9.52		ug/m3	1	3/23/2017 11:26:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	3/23/2017 11:26:00 PM
Propylene	< 0.26	0.26		ug/m3	1	3/23/2017 11:26:00 PM
Styrene	< 0.64	0.64		Emlgu	1	3/23/2017 11:28:00 PM
Tetrachloroethylene	31	27		£m\gu	27	3/24/2017 9:25:00 PM
Tetrahydrofuran	< 0.44	0.44		ag/m3	궣	3/23/2017 11:26:00 PM
Toluene	3,5	0.57		#g/m3	1	3/23/2017 11:26:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3 .	3	3/23/2017 11:26:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/23/2017 11:26:00 PM
Trichloroethene	0,54	0.21		ug/m3	1	3/23/2017 11:26:00 PM
Vinyl acetate	< 0.53	0.53		រញ្ញវិកា3	1	3/23/2017 11:26:00 PM
Viny! Bromide	< 0.66	23.0 LN		ug/m3	1	3/23/2017 11:26:00 PM
Vinyl chloride	< 0.10	0.10		นตู/เก3	1	3/23/2017 11:26:00 PM

Qualifiers:	**	Quantitation Limit
A STATE OF STATE STATE		AL wednesda Laurenteile d'attention

B Analyte detected in the associated Method Blank

Page 2 of 6

H Holding times for preparation or analysis exceeded

IN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

Remits reported are not blank corrected

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 30-Mar-17

CLIENT: Ravi Engineering & Land Surveying, P.C. Client Sample ID: AS-2-20170321

Lab Order: C1703065 Tag Number: 333,109
Project: 3130 Monroe Collection Date: 3/21/2017

Lab ID: C1703065-002A Matrix: AlR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		Fi	.D			Analyst:
Lab Vacuum In	- <u>9</u>			"Hg		3/23/2017
Lab Vacuum Out	-30			"Hig		3/23/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		то	-15			Analyst: RJF
1,1,1-Trichloroethane	< 0.16	0.15		ppbV	1	3/24/2017 12:08:00 AM
1,1.2,2-Tetrachkoroethane	< 0.15	0.15		ppbV	1	3/24/2017 12:08:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppb∀	1	3/24/2017 12:08:00 AN
1,1-Dichforcelhane	< 0.15	0.15		Pdqqq	•	3/24/2017 12:08:00 AN
1,1-Dichloroethene	< 0.15	0.15		ppbV	Ç.	3/24/2017 12:08:00 AN
1,2,4-Trichforobenzene	< 0.15	0.15		ppbV	1	3/24/2017 12:08:00 AN
1,2,4-Trimethylbenzene	< 0.15	0.15		Váqq	1	3/24/2017 12:08:00 AN
1,2-Dibromoethane	< 0.15	0.15		Váqq	1	3/24/2017 12:08:00 AN
1,2-Dichlorobenzene	< 0.15	0.15		Popy	í	9/24/2017 12:08:00 AN
1,2-Dichloroethane	< 0.15	0.15		ppb¥	1	3/24/2017 12:08:00 AR
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/24/2017 12:08:00 AN
1,3,5-Trimelbylbenzene	< 0.15	0.15		Vdqq	1	3/24/2017 12:08:00 AN
1,3-butadiene	≤ 0.15	0.15		ppbV	1	3/24/2017 12:08:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/24/2017 12:08:00 At
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	4	3/24/2017 12:08:00 AN
1,4-Dłoxane	< 0.30	0.30		ppbV	1	3/24/2017 12:08:00 AM
2,2,4-irimethylpentage	< 0.15	0.15		99b\V	1	3/24/2017 12:08:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/24/2017 12:08:00 AM
Acetone	16000	2200		ppbV	7290	3/24/2017 11:21:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	3/24/2017 12:08:00 AN
Benzene	0.48	0.15		ppbV	1	3/24/2017 12:08:00 AN
Benzyl chloride	< 0.15	0.15		ppbV	1	3/24/2017 12:08:00 AM
Bromodichloromethane	≪ 0.15	0.15		ppbV	1	3/24/2017 12:08:00 AN
Samolam	< 0.15	0.15		ррьУ	1	3/24/2017 12:08:00 AN
Bromemane	< 0.15	AT 0.15		ppbV	1	3/24/2017 12:08:00 AM
Carbon disulfide	<0.15	0.15		Vdqq	1	3/24/2017 12:09:00 AN
Carbon tetrachioride	0.070	0.040		Vágo	4	3/24/2017 12:08:00 AA
Chlorobenzene	< 0.15	0.15		ppbV	ş	3/24/2017 12:08:00 AA
Chloroethane	< 0.15	0.15		poby	Ťį.	3/24/2017 12:08:00 AM
Chloroform	0,27	0.15		ppbV	1	3/24/2017 12:08:00 AM
Chloromethane	0.92	0.15		ppb¥	1	3/24/2017 12:08:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		opbV	1	3/24/2017 12:08:00 AM
cis-1,3-Dichioropropene	< 0.15	0.15		ppbV	1	3/24/2017 12:08:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	3/24/2017 12:08:00 AN
Dibromochloromethane	< 0.16	0.15		ppbY	1	3/24/2017 12:08:00 AN
Ethyl acelate	95	110		ppbV	729	3/24/2017 10:44:00 Pt

Qualifiers:

- ** Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- IN Nost-coutine analyte. Quantitation estimated.
- 5 Spike Recovery outside accepted recovery limits
- Results reported are not blank corrected
- E Estimated Value above quantitation range
- Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 30-Mar-17

CLIENT:

Ravi Engineering & Land Surveying, P.C.

Lab Order:

C1703065

Project:

Lab ID:

3130 Monroe

C1703065-002A

-----Client Sample 10: AS-2-20170321

Tag Number: 333,109

Collection Date: 3/21/2017

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
IUGIMS WI 0.25UGIMS CT-TCE-VC		TO	►15			Analyst: RJP
Ethylbenzese	< 0.15	0.15		Vớgα	3	3/24/2017 12:08:00 AM
Freon 11	0.27 J	0,15		ppbV	1	3/24/2017 12:08:00 AM
Freon 113	< 0.15	0.15		ppbV	1	3/24/2017 12:08:00 AM
Fæon 114	< 0.15	0.15		ppbV	• •	3/24/2017 12:08:00 AM
Freon 12	0,39	0.15		pobV	1	3/24/2017 12:08:00 AM
Heptane	< 0.15	0.15		apbV	1	3/24/2017 12:08:00 AM
Hexachioro-1,3-butadiene	< 0.15	0.15		ppbV	î	3/24/2017 12:08:00 AM
Hexane	< 0.15	0.15		ppbV	1	3/24/2017 12:08:00 AM
isopropyl alcohol	1300	110		ppby.	729	3/24/2017 10:44:00 PM
m&p-Xylene	0.19	0.30	J	pobV	1	3/24/2017 12:08:00 AM
Methyl Butyl Ketone	CN 08.0>		_	V699	4	3/24/2017 12:08:00 AM
Methyl Ethyl Ketone	1.8	0.30		ppbV	1	3/24/2017 12:08:00 AM
Methyl tsobulyi Ketona	0.40	0.30		ppbV	1	3/24/2017 12:08:00 AM
Methyl teri-butyl ether	< 0.15	0.15		poby	7	3/24/2017 12:08:00 AM
Methylene chloride	0.23	0.15		ppbV	4	3/24/2017 12:08:00 AM
o-Xylene	< 0.15	0.15		pobV	1	3/24/2017 12:08:00 AM
Propylene	< 0.15	0.15		ppbV	; 1	3/24/2017 12:08:00 AM
Styrene	< 0.15	0.15		ppbV	1	
Tetrachioroethylane	4.3	1.5		PPP 7	10	3/24/2017 12:08:00 AM
Telrabydrofuran	< 0.15	0.15		ppoV Vdaa	173	3/24/2017 2:04:00 PM
Toluene	3.0	1.5		pobV	10	3/24/2017 12:08:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		bbpA hima	i	3/24/2017 2:04:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		bbp _A shaa	_	3/24/2017 12:08:00 AM
Trichloroethene	0.020	0.040		BBPA SANA	1	3/24/2017 12:02:00 AM
Vinyl acetate	< 0.15	0.15		ppov Vđeg	1	3/24/2017 12:08:00 AM
/inyl Sromide	< 0.15 NJ	0.15			1	3/24/2017 12:08:09 AM
Vinyl chloride	< 0.040	0.040		ppbV ******	4	3/24/2017 12:08:00 AM
Suit: Bromofigorobenzene	89.0	70-130		ppbV %REC	1	3/24/2017 12:08:00 AM 3/24/2017 12:08:00 AM

Qualifiers:

- Quantitation Limit
- Analyte detected in the associated Method Blank 踥
- 14 Holding times for preparation or analysis exceeded
- Non-routing analyse. Quantitation estimated.
- Spike Recovery outside accepted recovery limits
- Results reported are not blank corrected
- Estimated Value above quantitation range E
- ş Analyte desected below quantitation limit
- ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

CLIENT: Ravi Engineering & Land Surveying, P.C.

Lab Order: C1703065

Project: 3130 Monroe

Lab ID: C1703065-002A

Date: 30-Mur-17

Client Sample ID: AS-2-20170321

Tag Number: 333,109 Collection Date: 3/21/2017

Matrix: Alk

Analyses	Result	**Limit	Qual Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO	-1 5		Analyst RJP
1,1,1-Trichioroetbane	< 0.82	0.82	ug/m3	1	3/24/2017 12:08:00 AM
1,1,2,2-Tetrachiorosthana	< 1.0	1.0	ug/m3	i	3/24/2017 12:08:00 AM
1,1,2-Trichioroethane	< 0.82	0.82	ug/m3	1	3/24/2017 12:08:00 AM
1,1-Dichkoosthane	< 0.61	0,61	ug/m3	1	3/24/2017 12:08:00 AN
1,1-Dichloroethene	< 0.59	0.59	<i>ug/m</i> 3	1	3/24/2017 12:08:00 AN
1,2,4-Trichtorobenzene	≤ 1.₹	1.1	£m\gu	1	3/24/2017 12:08:00 AM
1.2,4-Tranelhybenzene	< 0.74	0.74	tig/m3	3	3/24/2017 12:08:00 AM
1,2-Dibromoethane	< 1.2	1.2	ບ ອຼ/ກາ3	4	3/24/2017 12:08:00 AN
1,2-Dichlorobenzene	< 0.90	0.90	ug <i>l</i> m3	4	3/24/2017 12:08:00 AN
1,2-Dichiproethane	< 0.61	0.61	មិ <u>ត</u> ្រាវិ	Two	3/24/2017 12:08:00 AN
1,2-Dichloropropane	< 0.69	0.69	<u> </u>	1	3/24/2017 12:08:00 AM
1,3,5-Trimethy/benzene	< 0.74	0.74	ug/m3	1	3/24/2017 12:08:00 AN
1,3-butadiene	< 0.33	0.33	និញខ្មែរ	1	3/24/2017 12:08:00 AN
1,3-Dichlorebenzene	< 0.90	0.90	ນໝໍາກວີ	1	3/24/2017 12:08:00 AN
1,4-Dichierobenzene	< 0.90	0.90	ug/m3	1	3/24/2017 12:08:00 AN
1,4-Dioxane	< 1.1	1,1	น <u>ต</u> ร์กา3	4	3/24/2017 12:08:00 AN
2,2,4-trimethylpentane	< 0.70	0.70	นตุการิ	•	3/24/2017 12:08:00 AM
4-ethyltoluene	< 0.74	0.74	eg/m3	1	3/24/2017 12:08:00 AN
Acetone	36000	5200	ug/m3	7290	3/24/2017 11:21:00 PM
Allyl chloride	< 0.47	9.47	ug/m3	1	3/24/2017 12:08:00 AM
Benzene	1.5	0.48	<i>vg/</i> m3	1	3/24/2017 12:08:00 AN
Benzyl chlodde	< 0.86	0.86	ug/m3	1	3/24/2017 12:08:00 AM
Somodichloomethane	< 1.0	1.0	ug/m3	1	3/24/2017 12:08:00 AM
Bromoform	< 1.5	1.6	Çmlgu	1	3/24/2017 12:08:00 AN
Bromomethan a	< 0.58 UJ	0.58	Emigu	1	3/24/2017 12:08:00 AN
Carbon disulfide	< 0.47	0.47	£m/gu	1	3/24/2017 12:08:00 AM
Carbon tetrachloride	0.44	0.25	ag/m3	4	3/24/2017 12:08:00 AN
Chiorobenzene	< 0.69	0,69	_ ug/m3	1	3/24/2017 12:08:00 AM
Chleroethane	< 0.40	0.40	ug/m3	1	3/24/2017 12:08:00 AM
Chiereform	1.3	0.73	ນສູໄຫລີ	1	3/24/2017 12:08:00 AN
Chloromethane		0.31	ugim3	f	3/24/2017 12:08:00 AN
cis-1,2-Dichloroothene	< 0.59	0,59	ນ໘ໄກາ3	1	3/24/2017 12:08:00 AN
cis-1,3-Dichloropropene	< 0.68	0.68	emł <u>e</u> u	1	3/24/2017 12:08:00 AM
Cyclohexane	< 0.52	0.52	មន្តវិភាទិ	1	3/24/2017 12:08:00 AM
Dibromechioromethane	₹1.3	1.3	ug/m3	*	3/24/2017 12:08:00 AM
Ethyl acetate	340	400	£m\gu 1.	729	3/24/2017 10:44:00 PM
Ethylbenzene	< 0.65	0.65	<i>เฒโ</i> สเรี	1	3/24/2017 12:08:00 AM
Freen 11	1.5 J	0.84	ນg/m3	Ē	3/24/2017 12:08:00 AM
Freen 113	< 1.1	1.1	<i>ug/m</i> 3	1	3/24/2017 12:08:00 AM
Freon 174	< 1.0	1.0	บอู/กา3	1	3/24/2017 12:08:00 AM

Qualifiers:

- ** Quentitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 33 Non-rousine analyte, Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- Results reported are not blank corrected
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Ravi Engineering & Land Surveying, P.C.

Lab Order: C1703065

Project: 3130 Monroe

Lab ID: C1703065-002A

CLIENT:

Date: 30-Mar-17

Client Sample ID: AS-2-20170321

Tag Number: 333,109

Collection Date: 3/21/2017

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
TUGINIS WI 0.25UGINIS CT-TCE-VC		TO	-15			Analyst: RJP
Freon 12	1.9	0.74	•	119/m3	1	3/24/2017 12:08:00 AM
Heptane	< 0.61	0.61		ug/m3	1	3/24/2017 12:08:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ບອູໄກເວີ	1	3/24/2017 12:08:00 AM
Hexane	< 0.53	0.53		ug/m3	1	3/24/2017 12:08:00 AM
isopropyl alcohol	3200	270		119/m3	729	3/24/2017 10:44:00 PM
m&p-Xy lene	0.82	1.3	7	ug/m3	4	3/24/2017 12:08:00 AM
Mathyl Butyl Ketone	< 1.2	NJ 1.2		up/m23	1	3/24/2017 12:08:00 AM
Methyl Ethyl Ketone	5.4	88.0		ug/m3	4	3/24/2017 12:08:00 AM
Methyl isobutyl Kelone	1,6	1.2		ug/m3	1	3/24/2017 12:08:00 AM
Methyl teri-bulyl ether	< 0.54	0.54		ug/m3	1	3/24/2017 12:08:00 AM
Methylene chloride	0.80	0.52		ug/m3	1	3/24/2017 12:08:00 AM
o-Xylena	< 0.65	0,65		นย/m3	1	3/24/2017 12:08:00 AM
Propylene	< 0.28	0.26		មួនក្រាទិ	Q	3/24/2017 12:08:00 AM
Styrene	< 0.64	0.64		ug/m3	4	3/24/2017 12:08:00 AM
Tetrachloroethylene	29	10		ugan3	10	3/24/2017 2:04:00 PM
Tehrahydrofuran	< 0.44	0.44		ug/m3	1	3/24/2017 12:08:00 AM
Toluene	1	5.7		บรไการ ิ	10	3/24/2017 2:04:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		นฐสิทจิ	1	3/24/2017 12:08:00 AM
trans-1,3-Dichioroprepene	< 0.68	0.68		นอูร์กา3	4	3/24/2017 12:08:00 AM
Trichloroethene	0.48	0.21		ug/m3	1	3/24/2017 12:08:00 AM
Vinyl acetate	< 0.53	0.53		egim3	*	3/24/2017 12:08:00 AM
Vinyl Bramide	< 0.66 \	AT 0.56		walm3	1	3/24/2017 12:08:00 AM
Vinyl chloride	< 0.10	0.10		ualm3	1	3/24/2017 12:08:00 AM

Onelifiers	
Leanner C.	Ē

- Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- IN Mon-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- Results reported are not blank corrected
- E Estimated Value above quantitation range
- Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Ravi Engineering & Land Surveying, P.C.

Lab Order: C1703065

CLIENT:

Project: 3130 Monroe

Lab ID: C1703065-003A

Date: 30-Mar-17

Client Sample ID: OS-1-20170321

Tag Number: 479,155

Collection Date: 3/21/2017

Matrix: AIR

Analyses	Result	**Limit	Quai Units	DF	Date Analyzed
FIELD PARAMETERS		FL	0		Analyst:
Lab Vacuum In	-2		41.42		3/23/2017
Lab Vacuum Out	-30		"Hg		3/23/2017
1UG/M3 W 0.25UG/M3 CT-TCE-VC		TO.	15		Analyst: RJP
1,1.1-Trichloroethane	< 0.15	0.15	Vdqq	1	3/24/2017 12:49:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15	Vdqq	3	3/24/2017 12:49:00 AM
1,1,2-Trichloroethane	< 0.15	0.15	₽₽₽V	1	3/24/2017 12:49:00 AM
1,1-Dichloroethane	< 0.15	0.15	Vdqq	4	3/24/2017 12:49:00 AM
1,1-Dichlorcethene	<0.15	0.15	Vđợq	- Para	3/24/2017 12:49:00 AM
1,2,4-Trichlorobenzene	≈Q.15	0.15	Váqo	•	3/24/2017 12:49:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15	Vdqq	-18	3/24/2017 12:49:00 AM
1,2-Dibromoethane	< 0.15	0.15	pobV	1	3/24/2017 12:49:00 AM
1,2-Dichlorobenzene	< 0.15	0.15	Vdqq	1	3/24/2017 12:49:00 AM
1,2-Dichloroethene	< 0.15	0.15	Vđqu	1	3/24/2017 12:49:00 AM
1,2-Dichloropropane	< 0.15	0,15	Vdqq	1	3/24/2017 12:49:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15	yddg	1	3/24/2017 12:49:00 AM
1,3-butadiene	< 0.15	0.15	aeb¥	1	3/24/2017 12:49:00 AM
1,3-Dichlorobenzene	< 0.15	0.15	nobv	1	3/24/2017 12:49:00 AM
1,4-Dichlorobenzene	< 0.15	0.15	ppbV	e e	3/24/2017 12:49:00 AM
1,4-Dioxane	< 0.30	0.30	V 000	1	3/24/2017 12:49:00 AM
2,2,4-trimethylpentane	< 0.15	0.15	Vđạc	4	3/24/2017 12:49:00 AM
4-cthylipluane	< 0.15	0.15	ppbV	1	3/24/2017 12:49:00 AM
Acetone	100	12	ppbV	40	3/25/2017 12:35:00 AM
Allyl chloride	< 0.15	0.15	٧٥٥٩	1	3/24/2017 12/49:00 AM
Senzepe	0.17	0.15	ppbV	1	3/24/2017 12:49:00 AM
Benzyl chloride	< 0.15	0.15	Yagg	1	3/24/2017 12:49:00 AM
Sromodichloromethane	< 0.15	0.15	9pbV	1	3/24/2017 12:49:00 AM
Bronsoform	<0.15	0.15	ppbV	1	3/24/2017 12:49:00 AM
Bromomethane	< 0.15	WJ 0.15	Vdqq	1	3/24/2017 12:49:00 AM
Carbon disultide	< 0.15	0.15	pobV	ŝ	3/24/2017 12:49:00 AM
Carbon tetrachloride	0.060	0,040	√dqg	2	3/24/2017 12:49:00 AM
Chlorobenzene	< 0.15	0.15	opb∨	4	3/24/2017 12:49:00 AM
Chioroethane	< 0.15	9,15	₽₽₽V	**************************************	3/24/2017 12:49:00 AM
Chloroform	< 0.15	0.15	Végg	1	3/24/2017 12:49:00 AM
Chioromethane	0.55	0.15	Vdqq	4	3/24/2017 12:49:00 AM
cis-1,2-Dichlorcethene	< 0.15	0.15	\ \ \ \ \ \ \ \	1	3/24/2017 12:49:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15	ppbV	•	3/24/2017 12:49:00 AM
Cyclohexane	< 0.15	0.15	pobV	1	3/24/2017 12:49:00 AM
Dibromochioromethane	< 0.15	0.15	pobV	1	3/24/2017 12:49:00 AM
Ethyl acelate	0.54	0.15	pobV	1	3/24/2017 12:49:00 AM

Qualifiers:

- ** Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- IN Non-routine analyze, Quantitation estimated,
- 5 Spike Recovery outside accepted recovery limits
- Results reported are not blank corrected
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- NO Not Detected at the Limit of Detection

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Centek Laboratories, LLC

CLIENT:

Ravi Engineering & Land Surveying, P.C.

Lab Order: C1703065

Project: 3130 Monroe Collection Date: 3/21/2017
Lab ID: C1703065-003A Matrix: AIR

Analyses Result **Limit Ogal Units DF Date Analyzed 1UG/M3 W/ 0.25UG/M3 CT-TCE-VC TO-15 Analyst: RJP Ethylbenzene < 0.15 0.15 Vágg ŧ 3/24/2017 12:49:00 AM Freon 11 0.28 J 0.15 لأطوع 1 3/24/2017 12:49:00 AM Freon 113 < 0,15 0.15 bbbA 1 3/24/2017 12:49:00 AM Freon 114 < 0.15 0.15 Voqq 1 3/24/2017 12:49:00 AM Freon 12 0.42 0.15 ppbV 1 3/24/2017 12:49:00 AM Heplane < 0.15 0.15**Vdqq** 1 3/24/2017 12:49:00 AM Hexachloro-1,3-butadlene < 0.15 0.15 3/24/2017 12:49:00 AM ydaq 7 Hexane < 0.15 0.15 Vdqq 1 3/24/2017 12:49:00 AM Isopropyl alcohol 11 1.5 ppbV 10 3/24/2017 11:59:00 PM m&p-Xylene < 0.30 0.30 Vđạq Ŋ, 3/24/2017 12:49:00 AM Methyl Butyl Ketone てい 85.0> 0.30 ជ្ជាច់\ -3/24/2017 12:49:00 AM Methyl Ethyl Ketone 0.36 0.30 poby 200 3/24/2017 12:49:00 AM Methyl Isobutyl Kelone < 0.30 0.30 ₽₽₽¥ ŧ, 3/24/2017 12:49:00 AM Methyl ten-bulyl ether < 0.15 0.15 Vđạg 1 3/24/2017 12:49:00 AM ppbV Methylene chloride 0.20 9.15ţ 3/24/2017 12:49:00 AM o-Xylene < 0.15 0.15 ppbV 1 3/24/2017 12:49:00 AM Propylene < 0.15 0.15 pobW 1 3/24/2017 12:49:00 AM Styrene < 0.15 0.15 ppbV 1 3/24/2017 12:49:00 AM Tetrachloroethylene < 0.15 0.15 ppbV 1 3/24/2017 12:49:00 AM Telrahydrofuran < 0.15 0.15 ppby 1 3/24/2017 12:49:00 AM Tottene 0.290.15 ppoV 7 3/24/2017 12:49:00 AM trans-1,2-Dichloroethene < 0.15 0.15 3/24/2017 12:49:00 AM ppbV 700 trans-1,3-Dichtoropropene < 0.15 0.15 ř poby 3/24/2017 12:49:00 AM Trichloroethene < 0.040 0.040 apbV 7 3/24/2017 12:49:00 AM Vinyl acetate < 0,15 0.15 PpbV 1 3/24/2017 12:49:00 AM Viny! Bromide < 0.15 W.J 0.15 ppbV ĩ 3/24/2017 12:49:00 AM Vinyl chloride < 0.040 0.040 Vdgg 1 3/24/2017 12:49:00 AM Surr: Bromoflegrobenzene 92.0 70-130 %REC 1 3/24/2017 12:49:00 AM

–			•
Qualifiers:	净岩	Quantitation Limit	

B Analyte detected in the associated Method Blank

Date: 30-Mar-17

Client Sample ID: OS-1-20170321

Tag Number: 479,155

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ld Holding times for preparation or analysis exceeded

IN Non-routine applyte, Quantitution estimated.

S Spike Recovery outside excepted recovery limits

Results reported are not blank corrected

E Estimated Value above quantitation range

l Analyse detected below quantitation limit

ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

CLIENT: Ravi Engineering & Land Surveying, P.C.

C1703065

Project: 3130 Monroe

Lab Order:

Lab ID: C1703065-003A

Date: 30-Mar-17

Client Sample ID: OS-1-20170321

Tag Number: 479,155 Collection Date: 3/21/2017

Matrix: AIR

Analyses	Result	**Limit	Qual Units	DF	Date Analyzed
1UG/M3 WI 0.25UG/M3 CT-TCE-VC	*****	TO	46		Analyst RJP
1,1,1-Trichlomethane	< 0.82	0.82	Emlou	1	3/24/2017 12:49:00 AM
1,1,2,2-Tetrachioroethane	< 1.0	1.0	Sm\gu	1	3/24/2017 12:49:00 AM
1,1,2-Trichloroethane	< 0.82	0,82	ng/m3	3	3/24/2017 12:49:00 AM
1,1-Dichloroethane	< 0.81	0.61	<i>ust</i> m3	4	3/24/2017 12:49:00 AM
1,1-Dichloroethene	< 0.59	0.59	- पद्मांतारी	1	3/24/2017 12:49:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1	ug/m3	1	3/24/2017 12:49:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74	ug/m3	1	3/24/2017 12:49:00 AM
1,2-Dibromoethane	< 1.2	1.2	ug/m3	2	3/24/2017 12:49:00 AM
1,2-Oichlorobenzene	< 9.90	0.90	ug/m3	1	3/24/2017 12:49:00 AM
1,2-Dichloroeshane	< 0,61	0.61	ug/m3	1	3/24/2017 12:49:00 AM
1,2-Dichloropropane	< 0.69	0.69	ugim3	1	3/24/2017 12:49:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74	ug/m3	1	3/24/2017 12:49:00 AM
1,3-butadiens	< 0.33	0.33	ualm3	•	3/24/2017 12:49:00 AM
1,3-Dichlorobeazene	< 0.90	0.50	ug/m3	1	3/24/2017 12:49:00 AM
1,4-Dichlorobenzene	< 0.90	0.90	vo/m3	•	3/24/2017 12:49:00 AM
1,4-Diexane	< 1.1	1.1	£migu	•	3/24/2017 12:49:00 AM
2,2,4-trimethylpentane	< 0.70	0.70	นดูกัก3	*	3/24/2017 12:49:00 AM
4-ethyltoluene	< 0.74	0.74	ug/m3	•	3/24/2017 12:49:00 AM
Acetone	240	28	ugim3	40	3/25/2017 12:36:00 AM
Allyl chloride	< 0.47	0.47	ug/m3	1	3/24/2017 12:49:00 AM
Benzene	0.54	0.48	ug/m3	1	3/24/2017 12:49:00 AM
Benzyl chloride	< 0.86	0.88	<i>เฉไก</i> เรี	1	3/24/2017 12:49:00 AM
Somodichleromethans	< 1.0	1.0	ม <i>ลู/m</i> 3	1	3/24/2017 12:49:00 AM
Bromoform	< 1.5	1.6	ug/m3	1	3/24/2017 12:49:00 AM
Bromomethane	< 0.58 \∧		ug/m3	1	3/24/2017 12:49:00 AM
Carbon disulfide	< 0.47	0.47	ម <i>ជ្ជ/</i> ភោ3	4	3/24/2017 12:49:00 AM
Carbon istrachloride	0.38	0.25	ນ໘/ກາວີ	9	3/24/2017 12:49:00 AM
Chlorobenzene	< 0.59	0.69	មិន្ត្រារ្យ	4	3/24/2017 12:49:00 AM
Chloroethane	< 0.40	0.40	ug/m3	1	3/24/2017 12:49:00 AM
Chloreform	< 0.73	0.73	ugm3	1	3/24/2017 12:49:00 AM
Chloromethane	1,1	0.31	<u> </u>	1	3/24/2017 12:49:00 AM
ds-1,2-Dichloroethene	< 0.59	0.59	ug/m3	1	3/24/2017 12:49:00 AM
dis-1,3-Dichloropropene	< 0.68	0.68	บญโกอิ	f	3/24/2017 12:49:00 AM
Cyclohexane	< 0.52	0.52	vg/m3	1	3/24/2017 12:49:00 AM
Oibromechionomethane	< 1.3	1.3	บญกา3	1	3/24/2017 12:49:00 AM
Ethyl acetate	1,9	0.54	ug/m3	1	3/24/2017 12:49:00 AM
Ethylbenzene	< 0.65	0.65	ນອູໄຫລີ	1	3/24/2017 12:49:00 AM
Freen 11	1.8 J	0.84	ngtus -a	1	3/24/2017 12:49:00 AM
Freen 113	s 1.?	1.1	4g/m3	4	3/24/2017 12:49:00 AM
Freen 114	< 1.0	1.0	ug/m3	9	3/24/2017 12:49:00 AM

Qualiflers:

- ** Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyse. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- Results reported are not blank corrected
- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 30-Mar-17

CLIENT:

Ravi Engineering & Land Surveying, P.C.

C1703065

Lab Order: Project:

Lab ID:

3130 Monroe C1703065-003A Client Sample 1D: O5-1-20170321

Tag Number: 479,155 Collection Date: 3/21/2017

Matrix: AIR

Analyses	Result	**Limit	Qual Units	DF	Date Analyzed
TUGIMS WI 0.25UGIMS CT-TCE-VC		TO			Anelyst: RJP
Freon 12	2.1	0.74	uglm3	1	3/24/2017 12:49:00 AM
Heplane	< 0.61	0.61	egim3	1	3/24/2017 12:49:00 AM
Hexachloro-1.3-butadiene	< 1.6	1.8	ug/m3	1	3/24/2017 12:49:00 AM
Hexage	< 0.53	9.53	cm/gu	1	3/24/2017 12:49:00 AM
isopropyl alcohol	28	3.7	Emigu	10	3/24/2017 11:59:00 PM
m&p-Xylene	< 1.3	1,3	ນຍູ/ກາ3	4	3/24/2017 12:49:00 AM
Methyl Butyl Ketone	< 1.2	WJ 12	ริศาโยน	1	3/24/2017 12:49:00 AM
Mathyl Ethyl Ketone	1,1	88.0	ug/m3	-1	3/24/2017 12:49:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2	ug/m3	. 1	3/24/2017 12:49:00 AM
Methyl tert-butyl ether	< 0.54	0.54	ug/m3	1	3/24/2017 12:49:00 AM
Methylene chloride	0.69	0.52	ug/m3	1	3/24/2017 12:49:00 AM
o-Xylene	< 0.85	0.65	ugim3	1	3/24/2017 12:49:00 AM
Propylene	< 0.26	0.25	Sm)gu	1	3/24/2017 12:49:00 AM
Styrene	< 0.64	0.64	ug/m3	1	3/24/2017 12:49:00 AM
Tetrachlomethylene	< 1.0	1.0	បញ្ជាកាចិ	1	3/24/2017 12:49:00 AM
Tetrahydrofuran	< 0.44	0.44	£m\gu	ę	3/24/2017 12:49:00 AM
Toluena	1.1	0.57	ug/m3	1	3/24/2017 12:49:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59	ນ ດ /ກາວີ	1	3/24/2017 12:49:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68	<u>=q/m3</u>	1	3/24/2017 12:49:00 AM
Trichloroethene	< 0.21	0.21	ພ ູດ/ກາ 3	1	3/24/2017 12:49:00 AM
Vinyl acetate	< 0.53	0.53	ug/m3	7	3/24/2017 12:48:00 AM
Vînyî Bromide	< 0.66	23.0 TN	<i>រប្រហែ</i> 3	1	3/24/2017 12:49:00 AM
Vinyl cntoride	< 0.10	0.10	ນຽ/ເກ3	1	3/24/2017 12:49:00 AM

Qua	1247	
3, 2111	2323	27.5

- Quantitation Limit
- Analyte descreed in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- IN Nun-routine smalyte. Quantitation estimated.
- Spike Recovery outside accepted recovery limits

Results reported are not blank corrected

Estinated Volue above quantitation range E

Į. Analyte detected below quantitation limit

NO Not Detected at the Limit of Detection

Page 6 of 6

Appendix B

Laboratory QC Documentation

Project:

3130 Monroe C1703065 Ravi Engineering & Land Surveying, P.C.

Work Order: CLIENT:

Sample ID ALCS1UGD-032317 SampType: LCSD

TestCode: 0.26CT-TCB- Units: ppbV

Prep Date:

RunNo: 12071

Center Laboratories, LLC

ANALYTICAL QC SUMMARY REPORT

Date: 30-Mar-17

& Spike Recovery	Analyse detected		Bromomethane	Bromoform	Bromodichloromethere	Benzyi chłonde	Benzene	Allyl chloride	Acetone	4-ethyllotuene	2,2,4-trimethy/pentane	1,4-Dioxana	1,4-Dichlorobenzene	1,3-Oichlorobenzane	1,3-butadisma	1,3,5-Trimethylbenzene	1,2-Dichleroproperte	1,2-Dichigrosthane	1,2-DioMorobenzene	1.2-Dibromoethane	1,2,4-Trimethylbenzene	1,2,4-Trichtorobenzene	1,1-Dichlonethene	1,1-Dichkproethene	1, 1,2-Trichloroethane	1, 1, 2, 2-Tetrachloroethane	1,1,1-Trichloroethane	Analyle	Client ID: ZZZZZ
Spike Recovery outside accepted recovery limits	kasatus raportsa are not crans cocrected Analyte defected below quantitation limit		1.360	0.9700	0.9100	0.8300	0.8800	0.7000	0.6300	0.9100	0.6000	0.8400	1,050	1.010	1,050	0.9000	0.8000	ପ ଶ୍ରହ୍ମପଦ	7.000	0,000	0,8800	1.100	0.8000	0-8200	0.9000	0.8900	0.9000	Result	Batch (D: R1207)
ntics			0.15	0.15	Q. 15	0,76	0, 13	0.16	0.30	0.15	0,15	0.30	0.15	p G	0.19	0.16	0.16	0.16	D, is	0.15	0,16	0,15	o, is	0, 15	0,16	0.15	0,16	Page	Fæsti
	ND Not Detected at the Limit of Detection		1 0		-	1 0	 	1		,			2	2	∞	~		±	.a.	A. O			~		_,	•	7	SPK value SPK Ref Val	TestNo: TO-15
	of Execution		(136	197	91.0	83.0	0.98	70,0	83.0	91.0	60.08	84.0	105	107	105	0.08	80.0	86.0	100	0.08	0.98	#10 0	80.0	82.0	90.0	99.0	80.0	%REC	>
	,		70	70	70	70	70	70 8	70 1		1 07 t		70 1		70 1	70 1				70 1			70 1		70 1	70 1	70 1	LowLimit HighLi	Analysis Date: 3/2
			1,24	68.0	0.88		_			6.0 0.8							3.0	_		130 0.87	130 0.67	130 1.15	130 0.78	130 0.77	130 0.87	130 0.69	130 0.85	HighLimit RPO Ref Val	3/24/2017
	RPD outside accepted recovery finally	e samo estáns de se	9.23	2.04	un GO	8,09	2.35	4.42	10.1	1.10	28.2	1.20	0.948	1.08	8.98	4,55	c.	2.35	2,02	3.39	1,14	4,44	2.53	6,29	2.39 9	0	5.71	%7PD	SeqNo: 141147
ly.	rits	natorie wannada	30	30	30	80	8	30	30	3	8	30	30	8	30	S	30	8	30	30	\$0	30	30	30	Ç.	30	30	RPOLIMIK	147
Page t of 5	è	.	00																									Que	

TestCode: 0.25CT-TCE-VC

Project: Work Order:

C1703065

Ravi Engineering & Land Surveying, P.C.

CLIENT: Ravi Engineering & Land Surveying, P.C.

A PARTIE OF THE PARTIES AND A	WILLIAM TO THE THE THE TAX TO THE	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWIND TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN	THE RESIDENCE OF THE PROPERTY	The state of the s	distribution described in the contract of the	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	WATER THE PROPERTY WAS PROPERTY FOR THE PERSON ASSESSMENT ASSESSME	一日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の	THE RESIDENCE AND ADDRESS OF THE PARTY OF TH	WALKS PRINCIPLE
Sample ID ALCSTUCED-482317	SampType: LCSD	Testices	TestCode: 0.28CT-TCE- Units	Units: ppbV	ayec dald)ale:		RunNo: 12071	3.4	THOUGHT SAME
Client ID: ZZZZZ	Batch ID: R12071	Testh	TestNo: TO-16		Analysis Date:) 3/24/2017	117	SegNo: 141147	147	
Analyte	Result	P	SPK value SPK Ref Val	AN WREC	EC LowLimi	Hustra Bis	apo rei vei	%#**O	RPDLIMIE :	Qual
Carbon disulfide	0.8300	0.16	A. A	Ø 83.0	.0 70	0. 130	8.0	79 E		STANDARD STANDS
Carbon tellachlorida	0.000	0.040	endit.	92.0		-	0.87		*	
Chlorobenzene	0.0400	0,16	-pAg	O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ö	~	Q,B	A :	9 °	
Chlargethane	1.020	Q. 15	*	0 102		_	0.03	č Š Š	မ္တ ့	
Chloroform	0.9000	0.16	ಹೌ	0,06 0			0.83	80.09	e O	
Chloromethane	0.9900	0,15	*	0.88		•	7.20	24.2	30	
cis-1,2-Dichlorosthene	0.7800	0, 10		0 78.0			0,76	N 0000	မဝ	
cis-1,3-Dichloropropene	0.0000	0, ts	an h	0,08		_	0.78	2.63	u O	
Cyclohexane	0.7500	O. 16	- 1	0 75,0		_	0,76	1,55	ස ස	
Dibromochicromethane	0.6300	0.5		0.59			0.88	4.40	40	
Ethyl acotale	0.7500	Ç, ÎS	mt	0 75,0			0.73	27.70	ω Ο	
Ellybenzene	0,8600	0.76	erwit	7.98 0	,	_	0.84	a M	4	
Freen 11	1.410	<u>-</u>	endi ,	SE CENTRAL CONTRACTOR	V		f.20	69-8	30	'n
Fredn 113	0.9100	6	****	\$ \$1.0			99.0	78.00 00.00	S	
Freon 114	1,220	0.46	sek	9 124			7.16	B.67	30	
Fron 12	1.180	0.16	mch.	0 116			1.03	11.9	30	
Heptane	0.7200	5	en S	0 72.0			0.73		30	
Hexachloro-1,3-butadiene	1.150	0,15	ests	611 0			***	3.54	30	
Mexano	0.7100	O. 18	205 .	0.37			0.72	. <u>.</u>	#0	
(sopropy) alcohol	0.8800	0.16	, subs	Q.88. Q			0.77	19.3	3	
m&p-Xylene	1.750	0.30	₹-2	0 87.5			7.72	1.73	a	
Methyl Bulyl Kelone	0.7500	0.30	<u>a</u>	0 75.0			1.00	(36.1)	ő	Ą
Methyl Ethyl Ketone	0,6700	D.30	, partie	Ø 87.0			Q.83	14.	30	
Mathyl Isobutyl Kelone	0,7400	DE.D		0 74.0	.0 70		0,92	24.7	30	
Methyl lent-bulyl ether	0.7600	O. 16	1 -43.	0 75.0			0.7	ÇI N	8	
Methylane antoride	0.6100	O. 15		0.18			0.78	3.77	30	
o-wybane.	O,BBCQ	0.15	-	0.88.0			0.88	2,30	20	
Propylene	0.7200	0.15	-4	0 72.0			0.72	.	30	
Styrene	0.8500	0.19	3:	0.88			68.0	-	80	
Tetrachtoroethylene	0.9800	G G	-3	0.86			0.92	Ø. 32.	30	
Tetrahydrofuran	0.7100	0,15		0 71.0		130	0.72	1.40	50	
Qualiffers: . Results reports	Results reported are not blank corrected		E Estimated Value alerve quantitation range	ese quantinion	Carage	T	Holding times for preparation or analysis exceeded	reparation or an	ilysis oxeceded	
j Analyte delect	Analyte desected below quantitation limit		NOT Not Delected at the Limit of Detection	Limit of Parecti	Ċn		KPE) cutsido accepted recovery limits	istis Concor por	200	

CLIENT:
Work Order:

C1703065

Ravi Engineering & Land Surveying, P.C.

5,00	Page 3 of S						ž.			its	Spike Receivery ausside accepted recovery limits	S Spike Recovery
		State of	prod recovery in	RPCF outside accepted recovery limits	70 70		Detection	Not Exected at the Limit of Detection	ND Not Desert		Analyte desected indow quantitation limit	1 Analyse desects
1	fed	mulysis exceed	preparation or a	Holding times for preparation or analysis excueded	T	ere attrouver o ex commente.	mitation cang	Estimated Value above quantitation range	5 Estimated 1	A SEA SECTION OF THE SECTION OF S	Results reported are not blank currected	Qualifiers: Results reported
		30	80.8	0.99	130	70	3 <u>0</u> 1	9	- -3	0.16	1,010	4-ethylloluene
		8	2.44	18,Q	130	ð	9,80	5	-2	9	0.8300	2,2,4-trimethylpentene
		30	2.27	0.89	130	ğ	87,0	Đ	_4	0.30	0.8700	1,4-Dioxane
		30	4.67	1,07	130	70	캶	Q		0.16	1.120	1,4-Dichlerabenzene
		30	Q.939	1,00	30	70	107	o		0,10	1,070	1,3-Dichlorobenzene
	70	\ 36	31.5	1.14	130	70	83.0	D	m ž i	0.16	0.6300	1,3-butadiene
		35	422	0.93	130	70	97.Q	Ω	-ch	0.15	0.9700	1,3,6-Trimethylbenzens
		30	7.14	0.81	130	7	87.0	Q	£	Ç.16	0.8700	1,2-Dichioropropane
		80	8.70	0,88	180	70	96.0	0	**	0.16	0.9800	1,2-Dichiorcemane
		30	3.77	1.04	130	70	108	0	salt.	0.15	1.080	1,2-Dichtorobenzene
		30	4,30	0.91	130	70	0.56	¢	~ ì	O. 48	0.9500	1,2-Dioromosthane
		30	\$.A.	Đ. Đ.	130	25	85.D	•	ers G	0	0.9500	1,2,4-Trimetty/benzene
		30	2,47	. 23	130	70	120	0	ணி	0	1.200	1,2,4-Trichlorobenzens
		30	e,28	0.81	130	Š	88.0	٥	mà.	9	0.6900	1, 1-Dichloroethene
		30	9,30	2870	130	70	90.0	0	orð.	ට සි	0.9000	1,1-Oichloroethane
		Or.	2.11	0.94	130	70	96.0	0	***	0,15	0.9600	1,1,2-Trichtoroethane
		36	1.08	0,84	130	ð	95,0	¢	وتست	0.15	0.9500	1, 1, 2, 2-Telrachbroethene
		30	3.24	0.91	130	70	94.0	9	~	o S	0.9400	t.1.1-Trichloroethene
	Qual	RPDLimit	Cloth%	RPD Ref Val	HighLimit	LowLimit F	%REC	SPK Ref Val	SPK value SP	PQI.	Roeul	Analyte
-		1174	Seq.No: 141174	17	. 3/24/2017	Analysis Dale:	~-		TO-IS	TasiNo: TO-15	Batch ID: K12072	Client ID: ZZZZZ
		270	RunNo: 12072		- *	Prep Date:		Andd spur	TestCode: 0.26CT-TCE-	TestCode	Samplype: LCSD	Sample ID ALCSTUGD-032417
	, province and the state of the	on the second	1 P. A	\$-8.0	023	70	103	0	**************************************	0.040	SED 3	Whyl chloride
	(B	30	6 8	1,24	130	70	(SE)	0		0,16	1.200	Vinyi Bramide
		**	2.40	0.65	130	75	88.O	Φ	,,A	0.56	0.0800	Vinyl acetalo
		9 0	1.07	0.84	190	70	93,0	0	- ₹	0,040	0.8300	Trichtoroethane
		30	2,67	9.76	130	70	74.0	Ф	ज् र्णे	0.16	0.7400	trans-1,3-Dichloropropene
		din Car	3.87	0.76	130	70	79.0	0	**	9	0,7800	Vens-1,2-Dichlorosthene
and a supplier	ATTACK COMMUNICATION	30	56.2	0.84	083	70	86.0	Q	,	O. 16	0.8800	Talisane
	O sa	RPDLImit	%RPD	RPD Ref Val	HighLimit	LowLinii t	WREC	SPK Ref Val	SPK value SP	နှင့်	Result	Analyte
*******		1147	SeqNo: 141147	47	3/24/2017	Analysis Date:	•		Testivo: TO-15	Contract.	Batch ID: R12071	Client ID: ZZZZZ
	Selficinal (France	12071	RunNo: 12	The state of the s	*	Prep Date:	mice unit to the	Aqdzi squh	Testonte: 0.250T-TCE-	TestCode	Samplype: (_CSD	Semple ID ALCOTUGDASSIT
Antonia	Andrew Comments		0.25CT-TCE-VC	restCode: 0	AND PORTUGUES THE CONTRACTOR OF THE CONTRACTOR O	ure van van de van			Name which has been promoted to the provided of the provided o	The second secon		Project: 3130 Monroe

TestCode: 0.25CT-TCE-VC

3130 Monroe

Project:

Page 39 of 210

Work Order: C1703065 Ravi Engineering & Land Surveying, P.C.

CLIENT:

Binone d'est.		and the manufacture consideration and control of the control of th	a see seeman appropriate			Pro- relative state of the stat	er ette etter egtet via ette		गारिङ	Spike Recovery outside accepted recovery limits	S Spike Recover
		ded recovered first	astron shipmed Chi			"Tetertica	May Therecard of the Little of Detection	MAN DESCRIPTION		Arter furte allegeretere frekaser arresertelenetere Terrete	And the state of t
-	aivsis exceeded	flotiling times for prepunition or annively exocuted	ofding times for I	II H	TO .	Past nojesty	listimated Value above quantitation range	e Estimated v		Results reported are not black corrected	Qualification . Results reporte
	30	4.26	96.¢	130	70	0.28	0		0.30	0.9200	Mathyl Isobutyl Kelone
	30	7.66	0.80	130	ð	0.88	٥	ark.	0.30	0.8500	Methyl Ethyl Kelone
	30	5. 0 0	98'0	120	ő	101	Ö	43	0.30	1,010	Methyl Butyl Ketone
	35	10.1	1.50	130	5	93.6	¢	P.)	0.30	1.870	m&p.Xylane
	မှ	12,0	0.87	130	70	89.0	0		0.15	0.000	isopropyl alcohol
	30	47.4	0.72	33	3	79.0	0	anh	Q. 15	0.7900	Hexane
	30	4,08	į,	136	70	12 20 0	o	mh	0.19	1.250	Hexachioro-1,3-butediene
	3 0	Q	0.73	130	õ	73.0	¢	~*	0.16	0.7340	Heplane
	30	7.53	1, 169	130	70	124	Ó	- -,1	0.15	9,240	TROP TO
(p)	30	ā	ŗ,	430	8	(13,7	¢	**	Q. 18	1.370	Freen 114
	90	10.8	0.89	130	, 3	30	¢	- *	0,15	0.8900	Freen 113
SR	30	36.3	1.24	130	5	(178 (178)	ø	-4	Q, †9	1,790	Freen 11
	9 Q	S. S.	0.89	130	3		Q	**	o.15	0.9100	Ethylbenzene
	30	12.5	0.75	130	70	0.38	0	-4	0,15	0,8500	Ethyl acetate
	30	7.06	0.66	130	70	95.0	D	-3	O.15	0,9500	Dibromochloromethane
	30	7.69	0.76	130	8	9. Q.	0	-	0.1g	0.8100	Cyclohexane
	**	1.2g	0.82	130	70	61.0	ō	-4	0,15	0.0100	cia-1,3-Dichloropropens
	90	9.88	0.77	130	70	95.0	0	-4	Q. 15	0.8500	cks-1,2-Dichtoroethane
	3 <u>0</u>	14.5	0.95	130	70	111	Ω	_	<u>0</u> 15	1,410	Chloromethane
	30	8.70	0.88	130	70	0.98	Đ	-4	0.16	0.8600	Chloraform
	30	尊 二	1.04	130	70		0	-3	0. 1s	1, 140	Charoethene
	90	1.05	0.95	130	70	0.88	0	-	0.15	0.9600	Chlorobenzene
	3 0	1.04	0.86	130	70	97.0	o	ـــ	0.040	0.9700	Carbon tetrachloride
	Ġ	80.8	0.83	130	70	90.0	¢	-3	0.1£	0.9000	Carbon disulfide
Ø	90	es es	1.34	130	2		Ö		0.15	1,470	Ammornethane
	3 Q	0.966	£0.1	130	j	富	O	-3	0.15	1,040	Bromaforns
	D£	1.Qg	0.92	130	TO TO	93.0	0	. ≖.	D. 18	0.9300	Bromodical cromethene
សា	\$	26.	0.89	130	70	65.0	0	-	0	0.6600	Senzyl chloride
	30	6.59	0.88	130	70	書り	ø	دم	\$1,0	0.8400	Benzene
	Ç.	5,41	0.72	130	70	76,0	0	-4	0.15	0,7600	Ally! chloride
manufaction parametric	3:0	27.5	97.G	130	70	99.0	0		05.0	0.9800	Acetoce
OFE	RPDLimit	%RPC	RPD Rof Vel	HighLimit	LowLimit	87.EC	SPK Ref Val	SPK value SP	PQL	Result	Analyte
	174	Segivo: 141174		LINDING CO.	Analysis Cate:			Tesino: TQ-15	Tesanc	Batch ID: R12072	Client (D: ZZZZZ
 , ,	72	RunNo: 12072		Đ.	Prep Date:		Colle: patry	TestCode: 0.2007770E-	Sportike i	Second that there	Jewish Programme of the Company
ndents and selection and and and and and and and and and an	ا عظی بیم مردی دو دو بیارین فیداران اعظی بیم مردی دو دو بیارین فیداران	ي موموميي موموميين شوياري ما ياديد ما ياديد الماديد. ويوموميي موموميين	e de se constitución de describión de constitución de la propertion de la	en e	o at an encountries of a particular security of the second security of the second seco		AND THE PROPERTY OF THE PARTY O	A CONTRACTOR CONTRACTO		TO A CALL A STATE OF A CALL AND A	218

Work Order:

C1703065

Ravi Engineering & Land Surveying, P.C.

CLIENT: Ravi Engineering & Land Surveying, P.C.

TestCode: 0.25CTT-TCE_VC TestCode: 0.25CTT-T	9.	Winyl chloride	Vinyi Bramida	Winyl acetate	Trichlorcethene	trans-1,3-Dichloropropene	trans-1,2-Dichloroethane	Toluene	Tetrahydrofuran	Tetrachlorgethylene	eneryte	Propylene	o-Xylene	Methylene chloride	neme thing-ber julian	Analyte	CIEM ID: ZZZZ	Sample ID ALC	Project:
Particode: 0.25CT-TCE-VC Date: ppbV Prop Date: Romino: 120T2 Romino: 120T3 Romino:						enedondo	cethene							de	ather	A TO T TO THE THE PROPERTY OF	22	4	3130 Монго
FestCode: 0.25CT-TOE. Units: ppbV Prop Date: TestCode: 0.25CT-TCE-VC Prop Date: TestNort: 70-16 Prop Date: Prop Date: TestNort: 70-16 Prop Date: Prop Date: Prop Date: Prop Date: 120723 Prop D	d ere not blank corrected d below quantitation limit outside accepted eccovery lit	1.190	1.580	0.7400	1.000	0.7900	0.000	0.8900	0.7500	1.040	0.9090	0.7900	0.0000	0.870 0.870	0.0100	Result	Balch ID: R12072	SampType: LCSD	aki, i, i
Units: ppbbV Prosp Date: RonNo: 123CT-TCE-VC ViRef Val %REC LowLinit HighLimit RPD Ref Val %RPD Ref Val %RP	PATE	0.040	0.15	o 6	0.040	0.35	o S	O. 15	0.16	C 5	D.35	0.15		o is	0.16	P P	T'esth	TestCod	The root like or the case of t
### Presp Date: RunNo: 12072 Analysis Date: 3/24/2017 SeqNo: 141174 LowLimit HighLimit RFD Ref Val 9/4P5D RFDLimit 70 130 0.75 7.89 370 130 0.91 5.35 30 70 130 0.75 5.19 34 70 130 0.75 5.19 34 70 130 0.75 5.19 34 70 130 0.86 2.79 370 130 0.86 2.79 370 130 0.86 7.23 30 70 130 0.86 7.23 30 70 130 0.86 7.23 30 70 130 0.86 7.23 30 70 130 0.86 5.13 30 70 130 0.86 5.13 30 70 130 0.86 5.13 30 70 130 0.86 1.04 41.2 30 70 130 0.86 3.43 30 70 130 0.86 3.43 30 70 130 0.86 3.43 30 70 130 0.86 3.43 30 70 130 0.86 3.43 30 70 130 0.86 3.43 30 30 30 30 30 30 30 30 30 30 30 30 30		æå	~ 4	<i>5</i> 54	~	æð.	sell.	and,	est.	n.h	~*	moh.	aas.	saA.			va: To-46		er vez armanas kur kaver avez avez avez avez avez avez avez avez
### Presp Date: Roundo: 122CT-TCE-VC Presp Date: 3f24/2017 Roundo: 12072) Linnic of Exerc		• •											•	9 6			patry.	
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RestCode: 0.25CT-TCE-VC RunNo: 12072 RunNo: 12072 RPD Ref Val %RPD RPDLimit 0.75		70	Z O	70	7	70	5	70	3	ð	7	70	ਰੱ	7	70		isis Date:	rep Date;	
RunNo: 12072 RunNo: 12072 SeqNo: 141174 FD Ref Val %RPD RPDLimit 0.75 7.69 30 0.8 5.35 30 0.75 5.19 30 0.75 2.70 30 1.01 2.93 30 0.8 7.23 30 0.8 7.23 30 0.8 7.23 30 0.8 7.23 30 0.9 5.19 30 1.04 41.2 30 1.02 15.4 30 1.02 15.4 30 1.02 15.4 30 1.03 30 1.04 41.2 30 1.05 30 1.06 3.43 30 0.86 3.43 30 0.86 3.43 30 0.86 3.43 30 0.86 7.23 30 0.86 7		130	130	130	130	130	130	130	130	140	130	130	130	200	130		3/24/2017	and the second s	1
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Evaluate Continuing Calibration Report

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3 ROP MSD #1 1.00

1501

Operator:

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Inst

C:\HPCHEW\I\METHODS\A312_IUG.M (RTE Integrator)
TO-15 VOA Standards for 5 point calibration
Thw Mar 30 08:22:59 2017
Whitiple Level Calibration Method Title

E4. 4k kt 4k Last Opdate Response via

Max. R.T. Dev % % 0 0 0 0 7 0.000 Min. Rel. Area 30% Max. Rel. Area Min. RRF Max. RRF Dev

0,33min

, ,	Compound	ANGRE		SDEY Areas	45 60 45 45 45 45 45 45 45 45 45 45 45 45 45	2
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€÷ C¥	Propylene	en en	₩ ₩ ₩	(A)	ns etc	0.0
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(년 연	u	1.208	1,063	23.6	et). An	0.00
AJ Em		6.032	6.330	কু- কু-	0	G. 6
	Vinyl Chloride	1,757	1.679	F	(*)	6.0
En l	Butane	7,936	1.420	26.7	ស្ព	0.00
(CO	1,3-butadiene	1,227	4. S	CT.	(C)	00.00
	Bromomethane	2.4.2	. S.	10.2	(** 40)	0.00
10 T	Chloroethane	0,789	0.650	77,6	ς. W	0.00
	Ethanol	0.573	0.447	22.0	M) O)	0.00
E+	4	0.566	0.516	යා	70	00.0
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_	1,1-dichioroethene	1.573	•	28. 20.	ф G	0.00
		ক ক ক	2,733	20.4	end VO	00.0
•	t-Butyl alcohol	4,095	2,797	31.7	K)	0.00
_	Methylene chloride	1. T. 2.	250.4	25.2	i G	00.0
	Allyl chicride	2.139	2.685	₩ ₩	(m) (A)	0.00
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-	army:	2.678	3,900	es es	(°°) UT	00.0
_	methyl tert-butyl ether	5.438	3.630	30	K)	0,00
	1,1-dichloroethane	ር. ር. ር.	23.00	() () ()	₽¶ LL¶	90.0
22 H	acetate	4.452	3.491	S. C.	R)	0.00
28 T	Nethyl Bihyl Ketone	٠. مولاد مولاد		24.3	កវ ក្រ	0,00
en :	cis-1,2-dichlorosthene	5. 52. 22. 22.	7.757	5. 63.	Ę.	
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er Cr	1.2-dichloroethane	4. 4.	2,505	33.5	ON LO	0,00
	1,4-difluorobenzene	1,000	7,000	0.0	C.	90.0
36 A	1,1,1-trichloroethane	1.029	•		473 E473	00.0
4. ***	Cyclohexane	0.561	594.	28 50	ťη ť'n	4
	Carbon tetrachloride	1,032	0.863	di Co	ധ	00.0
-	Benzene	1,029	0.804	23.4	m Ø	0.00
-	Methyl methacrylate	0.497	0,260	4	(% L(1)	00.00
-	1,4-dicxane	964.0	0.162	٠, در در	60 10	0.00
_	2,2,4-trimethylpentane	-, 64.0	7 502 E	26,8	iu G	0.00
_	Heptane	0,629	0,454	C. C.	ita G	0.00
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	ens	•	स्थ	28.4	es tu	•
્ય દ્ય	1,1,2-trichloroethane	0.428	- C	36.6	co in	GO, Q

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Evaluate Continuing Calibration Report

Data FÉRNYEK-ABORAMANES, CARKA ACO32402.D Acq On : 24 Mar 2017 9:17 am Sample : A1UG 1.0 Misc : A312_1UG MS Integration Params: RTEINT.P

2 RJP MSD #1 3.00

> Operator: Multiplr:

Inst

मुंग्ने र

C:\HFCHEW\1\METHODS\A312_1UG.W (RTE Integrator) TO-15 VOA Standards for 5 point calibration # b# Method Title

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	α	1.208	1.177	ω, φ.	ርሳ ርሳ	0.00
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		7.472	\$ 50°		, (~	0.00
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	Pentane	1.776	1,292		44 CA 44 44	00.0
	Isopropyl alcohol	2.334		in C	n n	6,03
	1,1-dichloroethene	w For Ev	3.306		4. O)	0.00
E-1 -	Freon 113	\$. \$2.	ው ር ር		ty CA	0.00
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	,-	0.744	0,649	4 4		200
	-dichi		0,	. 4	40. 101.	65.0
	Нехале	2,417	4	*	様です	0.03
	Ethyl acetate	5,025		er er	43#	0.00
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;- (Tetranydrozuran	F. 60	u	c. c.		٠. ٥. ٥
	1,2-dichloroetbare		2,963		נ"ט ריין	۵ 0
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	Cyclohexane	S. 562	0.433	6.4 6.4 6.4	ette CO CO	0.00
	Carbon tetrachloride	7.032	0.963	œ œ	なのな	0.00
	Benzene	7.029	0.845	13.0	4	0.00
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3 1	1,1,2-tflchloroethane	۵, مر	in The state of the state of th	•	ito Di Si	70.00

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Appendix C

Validator Qualifications

KENNETH R. APPLIN Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

3130 Monroe Ave. Rochester, NY NYSDEC BCP # C 828109

SDG: C1712024

3 Air Samples

Prepared for:

Ravi Engineering & Land Surveying, P.C. 2110 South Clinton Avenue, Suite 1 Rochester, NY 14618

January 2018

Envir

REVIEWER'S NARRATIVE SDG C1712024

The data associated with this Sample Delivery Group (SDG) C1712024, analyzed by Centek Laboratories, LLC Syracuse, NY have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Mulus K. Perry Date: 1/25/18

Michael K. Perry
Chemist

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REVI	EWER'S NARRATI	IVE				
1.0	SUMMARY		1			
2.0	INTRODUCTION					
3.0						
4.0						
5.0						
6.0						
7.0	TOTAL USABLE	DATA	4			
APPENDIX A APPENDIX B APPENDIX C		Validated Analytical Results Laboratory QC Documentation Validator Qualifications				
Tab	les					

Table 4-1 Data Validation Guidance Documents
Table 4-2 Quality Control Criteria for Validating Laboratory Analytical Data

Summaries of Validated Results

Table 6-1 TO-15

1.0 SUMMARY

SITE:

3130 Monroe Avenue

Rochester, NY

SAMPLING DATE:

December 05, 2017

SAMPLE TYPE:

3 air samples

LABORATORY:

Centek Laboratories, LLC

Syracuse, NY

SDG No.:

C1712024

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 3 air samples collected on December 05, 2017. These samples were analyzed for TO-15 volatile organic compounds.

All laboratory analyses were performed by Centek Laboratories, LLC, Syracuse, NY and analyzed as SDG C1712024. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1 DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance				
	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2.				
VOCs	USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SOM01.2; SOP HW-33, Rev. 2.				
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SOM01.2; SOP HW-35, Rev. 1.				
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.				
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.				
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)				
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.				

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING
LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg Sample Condition Holding Time System Monitoring Compounds Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Matrix Spikes Blanks Instrument Calibration & Verification Analyte ID Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Initial/Continuing Calibration CRDL Standards Blanks Interference Check Sample Spike Recoveries Lab Duplicate Lab Control Sample ICP Serial Dilutions Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Times Calibration Lab Control Samples Blanks Spike Recoveries Lab Duplicates	Completeness of Pkg Sample Condition Holding Time Canister Certification Lab Control Sample Instrument Tuning Blanks Initial Calibration & System Performance Daily Calibration Field Duplicate

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

- U The analyte was analyzed for but was not detected at or above the sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
- JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Table 6-1. The table lists the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG C1712024, three samples were analyzed and results were reported for 192 analyses. Even though some results were flagged with a "J" as estimated, all results (100%) are considered usable. See the summary table for the flagged analytes and the associated QC reasons.

C1712024

Table 6-1

TO-15

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All undiluted samples	Hexachlorobutadiene 1,1,1,2-Tetrachloroethane 1,2-Dichlorobenzene 1,4-Dichlorobenzene	J detects	LCS >130 %	Detected results are estimated
All undiluted samples	Hexachlorobutadiene	J detects/UJ non-detects	CCV > 30 %	Results are estimated

ACRONYMS

BSP

Blank Spike

CCAL

Continuing Calibration

CCB

Continuing Calibration Blank

CCV

Continuing Calibration Verification

CRDL

Contract Required Detection Limit

CRQL

Contract Required Quantitation Limit

%D

Percent Difference

ICAL

Initial Calibration

ICB

Initial Calibration Blank

IS

Internal Standard

LCS

Laboratory Control Sample

MS/MSD

Matrix Spike/Matrix Spike Duplicate

QA

Quality Assurance

QC

Quality Control

%R

Percent recovery

RPD

Relative Percent Difference

RRF

Relative Response Factor

%RSD

Percent Relative Standard Deviation

TAL

Target Analyte List (metals)

TCL

Target Compound List (organics)

Appendix A

Validated Analytical Results



Date: 08-Jan-18

CLIENT:

Ravi Engineering & Land Surveying, P.C.

Project:

3130 Monroe Ave

Lab Ordera

C1712024

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Centek Laboratories, LLC SOP TS-80

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

NYSDEC ASP samples:

Canisters should be evacuated to a reading of less than or equal to 50 millitorr prior to shipment to sampling personnel. The vacuum in the canister will be field checked prior to sampling, and must read 28" of Hg (±2", vacuum, absolute) before a sample can be collected. After the sample has been collected, the pressure of the canister will be read and recorded again, and must be 5" of Hg (±1", vacuum, absolute) for the sample to be valid. Once received at the laboratory, the canister vacuum should be confirmed to be 5" of Hg,±1". Please record and report the pressure/vacuum of received canisters on the sample receipt paperwork. A pressure/vacuum reading should also be taken just prior to the withdrawal of sample from the canister, and recorded on the sample preparation log sheet. All regulators are calibrated to meet these requirements before they leave the laboratory. However, due to environmental conditions and use of the equipment Centek can not guarantee that this criteria can always be achieved.

See Corrective Action: [3630] CC did not meet criteria.

CUITOR EUROIGEOIGO, EEG

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 08-Dec-17 Initiated By:

Russell Pellegrino

Corrective Action Report ID: 3630

Corrective Action Description

CAR Summary:

CC did not meet criteria.

Description of

Monconformance Root/Cause(s):

hexachloro butachiene Continuing calibration did not meet criteria on 12/6//17 for hexachlorocyclopentdiene. The compound was more sensitive in the CC. The compounds in question was not found in

the associated samples at a trace amount.

Description of **Corrective Action** W/Proposed C.A.:

Since the compounds of interest was found in the associated sample, sample results should be considered bias high. If compounds remain outside criteria perform system calibration. All sets of data submitted.

Performed By:

Russell Pellegrino

Client Notification

Client Notification Required:

No

Deficiency

Notified By:

Comment:

Quality Assurance Review

Nonconformance Type:

Further Action required by QA:

Recalibrate the system ASAP if compound remains outside criteria. Monitoring of all

quality control remains post initial calibration. All sets of data submitted.

Approval and Closure

Technical Director / Deputy Tech. Dir.:

Close Date: 12-Dec-17

QA Officer Approval:

QA Date: 11-Dec-17

05-Jan-2018 1:49 PM

Reported: 08-Jan-2018 1:49 PM



Date: 08-Jan-18

Project:

Lab Order:

C1712024

Work Order Sample Summary

Lab Sample ID Client Sample ID

Tag Number

Collection Date

Date Received

C1712024-001A AS-1-20171205

1191.1167

12/5/2017

12/8/2017

C1712024-002A AS-2-20171205

460,310

12/8/2017

C1712024-003A OS-1-20171205

95.272

12/8/2017

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Centek Letteret	turi es m	143 Midler Per		White E. H.	W. Under Co., S. C. St. St. St. St. St. St. St. St. St. St	Site Name: 3/30 /7	IGATOR ATUR	Detection Limit	Report Lovel
All Prints Evens	they are				•	Project: NYSDEC C	-828109	L Sppbv	Lovell
		Syracuse, NY 315-431-9730	13200			POM: 4515042	OP	Tug/M3	
		STO-43T-873U MWW.ContekL		Vapor Intrusid	on & IAQ	Chote # 6-26		1ug/M3+TCE_2	Lavell
TAT	Check	Rush TAT	aus.com Due	Term	The state of the s	Canister Order #: 440)	and the same of th	www.z	SY Cat "B" Like
Turnaround Time:	One	Succionge %	Date:	Company:	MUI FAC	MARCA CS	Company:	The state of the s	
5 Business Days	X	0%	HAPPY AND A		C.		Check Here If Sa	me: EF.	
4 Business Davs		25%	T-COLUMN AV WORKER CO. II TO A STATE OF THE PARTY OF THE	Report to:	FROM CHANA	inten Awa	Invoice to:		desired the second seco
3 Business Days		50%	The second secon	City Class 7	The same of the sa	acon proc	Address:		
2 Business Days		75%	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	TARRY CHEETING		Bold Andrew Land	City, State, Zip		
*Next Day by 5pm		100%	MANAGEMENT OF THE PARTY OF THE	Emal: /20	CKOR CELL	ELUBRA CON			A CONTRACTOR OF THE PARTY OF TH
*Next Day by Noon		150%	STATE OF THE PERSON NAMED IN COLUMN				Email:		
*Seme Day		200%	A TOTAL OF THE PARTY OF THE PAR	Phone: 3%.	5- 697-	5 /1 7 /	Phone:	The second secon	
*For Some and Next Day	TAT Please			Canister	Regulator	Analysis Request		TOTAL AND THE STATE OF THE STAT	ALL AND ALL MANUAL CONTRACTOR OF THE PARTY O
Sample ID		Oate :	Sampled	Number	Number	and the same is the street of	Field Vacuum	Labs Vacuum"	Comments
195-1-2017/a	05		. 7	The training of the second	7	ample of the second	Start / Stop	RecV/Analysis	
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145-2-20171	THE RESERVE	·	ALL THE PERSON NAMED IN COLUMN TO PERSON NAM	460	3/0		29.5 / /.0	And I want I	Nacl Scape
05-1-20171	205	<u> </u>		95	272		to 1 to the second of the seco	-	G () Complete
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Chain of Custody	F	rint Name	m sa santin A taurum sa an	no official and the	Signature		Date/Time	Courier: CIRCLE ONE	A Company of the Comp
lampled by:	LLIM	A ZLEAK (· · · · · · · · · · · · · · · · · · ·		Lingha	all delle	CHARLES AND A CONTRACTOR OF THE PARTY OF THE		up/Oropoff
telinguished by:		William I al			711		CONTRACTOR OF THE PROPERTY OF THE PARTY OF T		Waster Control of the
lecalved at Lab by:	No	1 solli-2	MA	1/12	11/	CONTRACTOR OF THE PROPERTY OF	17-8-7	"For LAB USE ONLY Work Order #C\777	nay .
** By signing Centek La	he Chain	of Contonia see		At a second				vyork Order # - / / / /	204 6

** By eigning Centek Labs Chain of Custody, you are accepting Centek Labs Tehnis and Conditions listed on the reverse side.

Lab Order:

Client Sample ID: AS-1-20171205

Project:

3130 Monroe Ave C1712024-001A

Tag Number: 1191.1167 Collection Date: 12/5/2017

Lab ID:

Analyses	Result	281 brail	· ·	Matrix	AIR
FIELD PARAMETERS	· · · · · · · · · · · · · · · · · · ·	SJERIE .	Qual Units		DF Deta Anna
rao yacuun III		=	LD		OF Date Analyzed
Lab Vacuum Out	ન્ઉ	1.			Arabus
	-30		749		Апаlyst: 12/9/2017
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC			" lig		12/8/2017
- and designe	< 0.15	TO	-15		
1,1,2,2-Tetrachlorcethane	* Q.15	0.15	Vdqq	a	Analyst: RJP
1,1,2-Trichloroethape	< 0.15	0.15	PpbV	1	12/\$/2017 9:25:00 PM
1.1-Dichloroethane	< 0.15	0.15	₽ pb V	*** ***	12/8/2017 9:25:00 PM
1.1-Dichloroethene	~ 0.15	D.15	DobV	4	12/8/2017 9:25:00 PM
1,2,4-Trichlorobenzene		0.15	Vdqq	1	12/8/2017 9:25:00 PM
1.2.4-Trimethylbenzene	< 0.15	0.15	Vdqq	1	12/8/2017 9:25:00 PM
1.2-Dibromoethane	< 0.15	0.16	ydqq	1	12/8/2017 9:25:00 PM
1,2-Dichlorobenzene	< 0.15	0.15	Váqq	1	12/8/2017 9:25:00 PM
1.2-Dichlorpethane	< 0.15	0.15	ppbV	1	12/8/2017 9:25:00 PM
1,2-Dichloropropane	< 0.15	0.15	ppbV	1	12/8/2017 9:25:00 PM
1,3,5-Trimethylbenzene	€0.15	0.15	ppbV	1	12/8/2017 9:25:00 PM
1.3-butediene	< 0.15	0.15	pphv	4	12/8/2017 9:25:00 PM
1,3-Dichlorobenzene	< 0.15	0.15	ppbV	dem	12/8/2017 9:25:00 PM
1,4-Dichlorobenzene	< 0.15	0.15	pobV	1	12/8/2017 9:25:00 PM
1.4-Dioxage	< 0.15	0.15	PPDV	Ť	12/8/2017 9:25:00 PM
2.2.4-trimethylpentane	< 0.30	0.30	bbộA hhva	1	12/8/2017 9:25:00 PM
4-elhytoluene	< 0.15	0.15		1	12/8/2017 9:25:00 PM
Acetone	< 0.15	0.15	ppbV	1	12/8/2017 9:25:00 PM
Allyl chloride	7000	240	ppbV	1	12/8/2017 9:25:00 FM
Benzene	< 0.15	0.15	PobV	810	12/11/2017 3:54:00 PM
Benzyl chloride	0,29	Q.15	ppbV	1	12/8/2017 9:25:00 PM
enadtenonolichiomenolichio	< 0.15	0.15	PPDV	1	12/8/2017 9:25:00 PM
iromolorm	< 0.15	0.15	ppbV	1	12/8/2017 9:25:00 PM
remomethane	< 0.15	0.15	ppbV	7	12/8/2017 9:25:00 PM
erbon disulfide	< 0.15	0.15	ρρb\/	1	12/8/2017 9:25:00 PM
arbon tetrachloride	< 0.15	0.15	PP b V	1	12/8/2017 9:25:00 PM
ilorobenzene	0.090	0.040	ppbV	9	12/6/2017 9:25:00 PM
lloroethane	₹ 0.15	0.15	ppbV	1	12/8/2017 9:26:00 PM
ioreform	< 0.15	0.15	Ppp/	1	12/8/2017 9:25:00 PM
ioromethane	0.17	0.15	PobV	Ť	12/8/2017 0:27:00 PM
1,2-Dichlorosthere	0.59	0.15	ppbV	1	12/8/2017 9:25:00 PM 12/8/2017 9:25:00 PM
1.3-Dichloropropene	< 0.15	0.15	Poby	1	12/8/2017 August 2
10hexane	< 0.15	0.15	PCDV	4	12/8/2017 9:25:00 PM
romochloromethane	< 0.15	v. 10 0.15	Vdqq	1	12/8/2017 9:25:00 PM
il acetaje	< 0.15	n se	PDDV	1	12/8/2017 9:25:00 PM
	76	Ø A	Dbp/\	_	12/8/2017 9:25:00 PM
ffers; ** Quantitation Limit		ษุม	obpA	40	12/8/2017 9:25:00 PM 12/8/2017 11:58:00 PM

- Quantitation Limit
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Ħ IN
- Nun-routine analyte. Quantitation estimated,
- Spike Recovery outside accepted recovery limits
- Results reported are not blank corrected
- Estimated Value above quantitation range E j
- Analyte detected below quantitation limit
- ND Not Described at the Limit of Detection

Ravi Engineering & Land Surveying, P.C.

Lab Order: C1712024

CLIENT:

Project: 3130 Momoe Ave Lab ID: C1712024-001A

Client Sample ID: AS-1-20171205 Tag Number: 1191.1167 Collection Date: 12/5/2017

Date: 03-Jan-18

Assolution	* ****			Matrix: Ala	5/2017
Analyses	Result	timit fre	Qual Units		and the second and a second
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC Environment	****		****	DF	Date Analyzed
Freon 11 Freon 113 Freon 114 Freon 12 Heptane Hexachloro-1,3-butadiene Hexachloro-1,3-butadiene Hexane Isopropyl alcohot måp-Xylene Methyl Butyl Ketone Methyl Ethyl Ketone Methyl Isobutyl Ketone Methyl Isobutyl Ketone Methyl tert-butyl ether fethylene chloride -Xylene ropylene tyrene etrachloroethylene etrahydrofuran fluene ns-1,3-Dichloroethene ns-1,3-Dichloroethene yl acetate ph Bromide dichloride um: Bromofluorobenzene	<0.15 100 0.14 <0.30 0.64 <0.30 <0.15 0.32 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15 <0.15	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.20 0.30 0.30 0.30 0.15	PROVED PROPPORT PROVED PROPPORT PROVED PROPPORT PROPPORT PROVED PROPPORT P	1 1	Analyst: RJP 12/8/2017 9:25:00 PM

wate Unilly

Qualifiers:

- Quantitation Limit
- Analyse detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Non-touting analyte. Quantitation estimated. M
- Spike Recovery outside accepted resovery limits
- Results reported are not blank corrected
- Estimated Value above quantitation range ŗ,
- Analyte detected below quantitation limit
- NO Not Detected at the Limit of Detection

Lab Order: Project:

Lab ID: C1712024-002A

Client Sample 1D: AS-2-20171205 Tag Number: 460,310

Collection Date:

Analyses	The same and the s			Justin.	lection D		
· · · · · · · · · · · · · · · · · · ·		Sulf és	· · · · · · · · · · · · · · · · · · ·		Mat	fix: AIR	
FIELD PARAMETERS		SHIE AN	Limit Q	eal Unit	····	~~~	C. See and any
A ASTARON IN			•	-	:3	DF	Dota 4
Lab Vacuum Out		-1	FLD				Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE- 1.1.1-Trichloroethage		-30		"Hg			An-t
1,1.1-Trichlomethane	VC	-		Trig			Analyst: 12/8/2017
1.1.2.2-Tetrachlomethane			TO-15				12/8/2017
1,1.2-Trichloroethane	× 0,		0.15				
1,1-Dichloroethane	< Ŭ	75	0.15	ppy		1	Analyst; RJ
1.1-Dichlomethene	< 0.1	lā ,).15	PP		1	TENESON OF
1,2,4-Trichknobenzene	<q1< td=""><td>5 0</td><td>.15</td><td>bosh</td><td></td><td>di I</td><td>"" WY 6VI / 10 OF 10A P.</td></q1<>	5 0	.15	bosh		di I	"" WY 6VI / 10 OF 10A P.
1.2 Sulfament	< 0.1;	5.	. 15 . 15	ppbv			"APPLICATIONS OF THE
1.2.4-Trimethylbenzene	< 0.15	E .	-	PODV		1	"MUMON IN OR BO O.
1,2-Dibrompetnane	< 0.15	i	15	PPDV		1	""" 10:05:05 on
1.2-Dichlorobenzene	< 0.15	W.		PPbV		1	12/8/2017 10:05:00 PM
1,2-Dichloroethane	< 0.15	V, j		PPDV		1	12/8/2017 10:05:00 PM
1.2-Dichloropropane	S 0.15	Ų. į		Pobly		1	12/8/2017 40-10 PM
1,2,3-(Milelhulban-	< 0.15	0.1:	5	ppbv	•	1 1	12/8/2017 10:05:00 PM
· · · · · · · · · · · · · · · · · · ·	< 0.15	9.11	3	PPbV	1	, ,	2/8/2017 10:05:00 PM
1,3-Dichlorobenzene	< 0.15	0.15	<u> </u>		1	1	2/8/2017 10:05:00 PM
1.4-LilChloroben-n-		0.15		PpbV	d.m.	**	croreuly in asing en-
1'4-NOXSUG	< 0.15	0.15		Pobv	1	8.4	1012017 10 08:00 c
2,2,4-trimethylpentane	₹ 0.15	0.15		ipby	1	14.	"WEV! 7 10:05:00
4-shyltoluene	< 0.30	0.30		pby	1	-	"PANT TO DE DE DE
Acetone	≈ 0.15	0.15	-	pby	7	e agric	₩£₩17 10:05:05
Allyl chloride	< 0.15	0.15	PF	bv	1	16.5	3607/ 10:05:00 a
Senzene	3700	730	Þφ	ρħ	ĵ	1468 €	#4017 10:05:00 pm.
Benzyl chloride	< 0.15	0.15	Đại	bV		. 12.5	የፋህ፣ (፣በነስና _{የእስ የሚ}
Bromackati	0.4g		jog)V	243		1/2017 5:47-66 cm
Bromodonioromethane Bromodom	₹ 0.15	0.15 0.15	gqg	V	1	12/8/	2017 10:05:00 PM
w. en stolicitii	< 0.15	0.15	ppb	V	7	12/8/	2017 10:05:00 PM
Stornomethane Cont	< 0.15	0.15	Ppb	V	1	12/8/2	2017 10:05:00 PM
Carbon disulfide	< 0.15	0.15	PPb)		7	12/8/2	017 10:05:00 PM
Carbon tetrachloride	< 0.15	0.15	PpbV		ş	12/8/2	017 44 00 PM
-1:10:00e0zena	0.090	0.15	PPbV		7	12/8/2	017 10:05:00 PM
hloroethène	< 0.15	0.040	PPDV		1	12/8/2	717 10:05:00 PM
illoroform	< 0.15	0.15	Poby		Î	12/9ma	17 10:05:00 PM
hioromethane	0.46	0.15			î		77 10:6c.ca -
3-1,2-Dichinosae.		0.15	Depty		\$. 41.01 7 ()	7/10 αs ασ αντ
	0.97	0.15	PPBV		4	and the second	* RUNKIN DA -
***************************************	<0.15	0.15	Vdqq		1	44. 138. 12 E. J.	/ 10:06:00 ou .
romochloromathane	5015	0.15	ppby		1	. Same	(10:05:00 or a
y acetate	< 0.15	0.15	bbbA		, 4	and the	10:05:00 004
	< 0.15	0.15	podv		i j	4 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 fis-co
the second secon	150		ydqq		4	E COLEUT !	10-03-00 e
fiers: ** Quantilation Limit	**-	36	PODV		1	- 44 72 CALL	10:06:46
B Adulyte detected in the associate	way would be stranged and the features.				243	12/11/2041	5:10:00 PM

Qualifiers:

- Analyte desected in the associated Method Blank
- Holding times for preparation or analysis exceeded 19 IN
- Non-routine energie. Quantitation estimated. Spike Recovery nutside accepted recovery limits
- Results reported are not blank corrected E., ,
- Estimated Value above quantitation range
- Analyte detected below quantitation limit ND Not Detected at the Limit of Detection

Project:

Lab ID:

Client Sample 1D: AS-2-20171205

Tag Number: 460.310

3130 Monroe Ave C1712024-002A

Collection Date:

Analyses				Matrix: All	3
1UGM3 W 0.2UGM3 CT	Result	**Limit	Qual Units	DF	المعارضة ومنش شهيد فالها مشاء المعارضة
2 series 162		***			Date Analyzed
Freen 14	< 0.15	0.15	-15		
Freen 113	0.22	v.15 Q.15	PpbV	1	Analyst: Rup
Freon 114	< 0.15	v. 18 Q.15	Vdqq	1	12/8/2017 10:05:00 PM
Freon 12	< 0.15	v. 10 0.15	PPDV	1	12/8/2017 10:05:00 PM
Heptane	0.50		Vága	7	12/8/2017 10:05:00 PM
Hexachloro-1.3-butadiane	< 0.15	0.15	Supply	1	12/8/2017 10:05:00 PM
Hexane		ا Q 15 Q 15	Vdqq	1	12/8/2017 10:05:00 PM
isopropyl alcohol	0.10		ppby	4	12/8/2017 10:05:00 PM
m&p-Xylene	580	0.15	J ppbv	1	12/8/2017 10:05:00 PM
Methyl Butyl Ketone	0.16	360	PPbV	2430	12/8/2017 10:05:00 PM
Viethyl Ethyl Ketone	< 0.30	0.30	J ppby	1	12/11/2017 5:47:00 PM
Methyl Isobutyl Ketone	0,89	0.30	PpbV	1	12/8/2017 10:05:00 PM
Rethyl tert-bulyt other	< 0.30	0.30	Vdqq	1	12/8/2017 10:05:00 PM
fethylene chloride	< 0.15	0.30	ppby	7	12/0/2017 10:05:00 PM
-Xylene	0.65	Q.15	AppA	1	12/8/2017 10:05:00 PM
fopylens	< 0.15	0.15	ρρ b γ	1	12/8/2017 10:05:00 PM
yrene	< 0.15	0.15	Vđqq	? 2	12/8/2017 10:05:00 PM
trachiomethylene	< 0.15	0.15	bopA	1	12/8/2017 10:05:00 PM
praylatinguali prayla	8.1	0.15	b bpA	, 1	12/8/2017 10:05:00 PM
lasue Incuration	< 0.15	1.5	bbpA	10	12/8/2017 10:05:00 PM
ns-1,2-Dichlorosthene	7.0	0.15	ppbv	114	12/9/2017 12:35:00 AM
35-1 3-Tichhann	< 0.15	1.5	ppdv	-	12/8/2017 10:05:00 pm
35-1,3-Dichloropropene thloroethene	< 0.15	0.15	PIPbV		12/9/2017 12:35:00 And
n acetale	0.31	0.15	Pobly	<u>.</u>	12/8/2017 10:05:00 Pte
i Bromide	< 0.15	0.040	ppbV	•	12/8/2017 10:05:00 PM
i chloride	< 0.15	0.15	ppby		12/8/2017 10:05:00 PM
r massagg Mr Brownston	< 0.040	0.15	PPBV		12/8/2017 10:05:00 PM
ur: Bromoiluoroberzene		0.040	PpbV	• 1	12/8/2017 10:05:00 PM
	ช ช์ที <u>ร</u> ี	70-130	%REC		2/6/2017 10:05:00 PM
			-	1 1	2/8/2017 10:05:00 PM

Qualifiers:

Quantitation Limit

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded ŀį

Non-mutine analyte. Quantitation estimuosi. IN

Spike Recovery outside accepted recovery limits

Results reported are not blank corrected

Estimated Value above quantitation surge E

Analyse detested below quantitation limit 5

ND Not Described at the Limit of Description

Mrs 111 /18

Ravi Engineering & Land Surveying, P.C.

Lab Order: C1712024

CLIENT:

Project: 3130 Monroe Ave

Lab ID: C1712024-003A Date: 03-Jan-18

Client Sample ID: OS-1-20171205

Tag Number: 95.272 Collection Date:

Analyses	Result			Matrix: A	#15.
FIELD PARAMETERS	1,5111	**Limit	Qual Units	D	F Reference
Lab Vacuum in				- N	F Date Analyzed
rap Aachtu On	-3	F	.D		Analyst:
	-30		"Hg		12/8/2017
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC	7.8		"Hg		12/8/2017
······································		ТО	4 5		Attach 6 6 6
1,1,2,2-Tetrachloroethana	< 0.15	0.15	ppbV		Analyst: RJP
1,1,2-Trichloroethene	< 0.15	0.75	poby	7	12/8/2017 10:45:00 PM
1,1-Dichlercethane	< 0.15	0.15	Pop.	1	12/8/2017 10:45:00 PM
1.1-Dichlorasthene	< 0.15	0.15		7	12/8/2017 10:45:00 PM
1.2.4-Trichiorobenzene	< 0.15	0.15	PDPA.	qua	12/8/2017 10:45:00 PM
1.2.4-Trimethylbenzene	< 0.15	0.15	ppbV	14	12/8/2017 10:45:00 PM
1,2-Dibromoethane	< 0.15	0,15	PPbV	1	12/8/2017 10:45:00 PM
1,2-Dichlorobenzene	< 0.15	0.15	ppbV	S	12/8/2017 10:45:00 PM
1,2-Dichloroethane	< 0.15	0.15	6pbV	1	12/8/2017 10:45:00 PM
1,2-Dichloropropane	< 0.15	0.15	bbpA	7	12/8/2017 10:45:00 PM
1,3,5-Trimethylbentene	< 0.15	0.15	\$b\$V	1	12/8/2017 10:45:00 PM
1.3-buladiene	< 0.15		Váqq	3	12/8/2017 10:45:00 PM
1,3-Dichlorobenzane	< 0.15	0.15	PpbV	4	12/8/2017 10:45:00 PM
1.4-Dichlarobenzene	< 0.15	0.15	ppay	1	12/8/2017 10:45:00 PM
.4-Dioxane	< 0.15	0.15	obpA	1	12/8/2012 to 12
	< 0.30	0.15	Veqq	1	12/8/2017 10:45:00 PM
2,4-trimethylpentane	< 0.15	0.30	Vėga	1	12/8/2017 10:45:00 PM
-ethyltoluene	< 0.15	0.15	ppbV	1	12/8/2017 10:45:00 PM
Celone		0.15	ppbV	1	12/8/2017 10:45:00 PM
llyl chloride	15 < 0.15	3.0	Vďqq	, 10	12/8/2017 10:45:00 PM
202918		0,15	ppbV	1	12/9/2017 1:48:00 AM
enzyl chioride	0.19	0.15	Vdqq	1	12/8/2017 10:45:00 PM
omodichloromethane	< 0.15	0.15	PpbV		12/8/2017 10:45:00 PM
Ornoform	< 0.15	0.15	poby	1	12/8/2017 10:45:00 PM
Example 2019	<0.15	0.15	PP6V	1	12/8/2017 10:45:00 PM
rbon disulfide	< 0.15	0.15	569/	1	12/8/2017 10:45:00 PM
rbon tetrachloride	< 0.15	0.15	ppbV	1	12/8/2017 10:45:00 PM
orobenzene	0.10	0.040	PPV	1	12/8/2017 10:45:00 PM
orgethane	< 0.15	0.15	bopA Lead	î	12/8/2017 10:45:00 PM
oroform	< 0.15	0.15	ppbV	1	12/8/2017 10:45:00 PM
Pomethane	< 0.15	0.15		-fin-	12/8/2017 10:45:00 PM
1.2-Dichloroethene	0.46	Q.15	pobV	7	12/8/2017 10:45:00 PM
.3-Dichloropropene	< 0.15	0.15	Pop/	E STATE OF THE STA	12/8/2017 10:45:00 PM
phexane	< 0.15	0.15	PODV	3	12/8/2017 10:45:00 PM
Autocyloromethane	< 0.15	0.15	pobV	Green	12/8/2017 10:45:00 PM
acelaia	< 0.15	Q.15	PobV	e de la companya de l	12/8/2017 10:45:00 PM
	0.30	0.15	PpbV	1	12/8/2017 10:45:00 PM
CFS: ** Openicaling	•	भः। ध	ppbV	1	12/8/2017 10:46:00 PM

Qualificra:

- Quantitation Limit
- Analyte descript in the associated Method Blank В
- Holding times for preparation or analysis exceeded JN.
- Non-matine analyte. Quantitation estimated. Spike Recovery outside accepted recovery limits
- Results reported are not blank corrected
- Estimated Value above quantitation range 2
- Analyse detected below quantitation limit į
- Not Detected at the Limit of Detection

CLIENT:

Lab Order:

Client Sample ID: OS-1-20171205

Tag Number: 95.272

Collection Date:

Project: Lab ID:

3130 Monroe Ave C1712024-003A

Analyses	The same against section of the			Matrix: AlR
111GAM3 is a color	Result	**Limit	Qual Units	DF Deto 4-1
×1×5×1×6×1				Date Analyzed
Freon 11 Freon 113 Freon 114 Freon 12 Heptane Hexachloro-1,3-butadiene Hexane Isopropyl alcohol m&p-Xylene Methyl Butyl Ketone Methyl Eshyl Ketone Methyl tert-butyl ether Methylene chloride FXylene	<0.15 0.27 <0.15 <0.15 0.59 <0.15 <0.15 <0.15 0.11 <0.30 <0.30 <0.30 <0.15	TO 0.15 0.15 0.15 0.15	ppity ppby ppby ppby ppby ppby ppby ppby pp	Analyst: R 1 12/8/2017 10:45:00 1 12/8/2017 10:45:00
Propylene Propylene Prachlorosthylene Prachlorosthylene Prachlorosthylene Prachlorosthene Prac	< 0.15 < 0.15 < 0.040	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	Vdqa Vdqq Vdqq	1 12/8/2017 10:45:00 PM

Qualifiers:

Quantitation Limit

Analyte detected in the associated Method Blank B

Holding times for preparation or analysis exceeded 1

Non-routine analyse. Quantitution estimated. IN

Spike Recovery outside accepted recovery limits

Results reported are not blank corrected

Estimated Value above quantitation range E

Analyte detected below quantitation fimit 3

NO Nut Detected at the Limit of Detection

WM 1/11/18

Appendix B

Laboratory QC Documentation CLIENT:

Ravi Engineering & Land Surveying, P.C.

Work Order:

C1712024

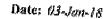
Project:

3130 Monroe Ave

Sample ID: ALCS1UG-120817 Client ID: ZZZZZ	SampType: LCS Baich IO: R13038		ide: 0.25CT-T(No: TO-16	CE- Units: ppbV		Prep De	ilė.	AND THE PROPERTY OF THE PROPER	0.25CT-TC RunNo: 13		No. of the last of
Analyte	Result	FQL	_			Analysis Os	io: 12/8/20	17	SeqNo: 15		
Acelone	A STATE OF THE STA	and the second	SPK value	SPK Ref Val	%REC	LowLimit	F-light Limit	RPO Ref Vel			
Allyl chloride	0.8100	0.30	1	O	61.0		TO VESTIGATE OF THE PARTY OF TH	A PART A SEE	%RPO	RPOLimit	Qual
Bonzene	Q.870Q	0.15	1	Ğ	87.G	70 70	130		- Infallon (111	Market - Company
Benzyl chloride	1.050	0.15	1	ō	105	70·	130				
Bromodichloromethane	1.270	0.16	1	ō		70	130				
Bromoform	1.210	0.15	1	õ	127	70	130				
Gramornethene	1.290	0.15	1	ů.	121	70	130				
Carbon disulfide	0.9500	0.15	· ¥	n n	129	70	130				
Carbon tetrachloride	0.9300	0.15	1	ų O	95.0	70	130				
Chloroberzene	1.070	0.040			93,0	70	730				
Chloroethane	1.170	Q.18	*	O O	107	70	130				
	1.000	0.15	,³ 14	O	117	70	130				
Official Company of the Company of t	1.030	0.15	l ar	Q	100	7Q	130				
	1.020	0.15	*	O	103	70	130				
is-1,2-Dichloraethone	0.9500	0.15	1	O	102	70	130				
ris-1,3-Dichloropopene	1.130	0.15	7	Q	95.0	70	130				
Cyclohexane	1.040	0.15	1	Ø	113	70	130				
ibromochloromethene	1.200	· -	1	Ф	104	70	130				
Thyl acetate	0.0000	0.15	1	0	120	70	130				
thylbenzene	1.030	0.15	1	٥	98.0	70	130				
feon 11	1.130	O.15	1	0	103	70					
reon 113	0.9800	0.15	1	Ó	113	70	130				
@On 114		0.15	1	0	0.89	70 [.]	130				
eon 12	1.140	0.15	1	O	114	70	130				
plane	1.110	0.15	1	o	111		130				
enelbatud-C.T-proidcax	1.030	0.15	1	ō	103	70 ⁻	130				
) Kene	1.420	O.15	19	a .	(142)	70	130				
propyi alcohol	0.6900	Ø.15	1	ő	89.0	70 	130				S
kp-Xylene	0.9300	0.16	16	a		70	130				e e
thyl Bulyl Ketone	2.260	0.30	2	n	93.0	70	130				
thyl Ethyl Kelone	1.000	0.30	- 1	a	112	70	130				
thyl isobulyl Kelone	0.9400	0.30	* 1	u Ø	100	7Q	130				
eliferes Results conserved	1.020	0.30	1	er O	94.0 102	70 70	130				

- Analyte detected below quantitation limit
- Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection

- Hadding times for preparation or analysis exceeded
- RFD outside accepted recovery limits





ANALYTICAL QC SUMMARY REPORT

CLIENT;

Ravi Engineering & Land Surveying, P.C.

Work Order:

C1712024

Project:

3130 Monroe Ave

Sample ID: ALCS1UGD-121117 Client ID: ZZZZZ Analyte	SampType: LCSD Balch (D: R13034		ide: 0.26CT-T(No: TO-15	E- Units: ppbV		Prep Dat Analysis Dat			Runivo: 13		
THE THE PARTY OF T	Result	PQL	SPK value	SPK Ref Val			o. 1414 164	er. (\	SeqNo: 15	1403	
1,1,1-Trichlomethane	1,190	0.15	4	en er (1641 ASI)	%REC	LowLimit	HighLima	RPD Ref Val	%RPD	RPDLimit	Quai
1,1,2,2-Tetrachloroethane	1.450	0.15	ļ.	0	119	_ 70	130	1.17	The same of the sa	The state of the s	44.(4.(3).
1,1,2-Trichloroethane	1.240	0.15	1	Ø	145	70	130	1.27	1.69	30	
1,1-Dichteroethane	1,070	0.15	1.	Q	724	70	130		13.2	30	\$
1,1-Cichloroethene	1.220	0. (S	1	Q	107	70	130	1.22	1.63	30	
1,2,4-Trichlorobenzene	1,280		4	0	122	70	130	1.01	5.77	30	
1,2,4-Trimethylbenzene	1.200	0.15	1	ø	128	70	130	0.92	0.8\$	30	
1.2-Dibromosthane	1,250	0.15	1	0	120	70		1.15	10,7	30	
1,2-Dichlorobenzene	1.310	0.15	1	0	_125	7a	130	1.18	1.68	30	
f,2-Dichloroethens	1.070	0.15	1	0	T31	> 70	130	4.2	4.08	30	
1,3-Dichloropropane		0.15	4	O	407	70	130	1.20	1.54	30	S
.3.5-Trimethy/benzene	1.170	0.15	1	۵	117		130	1.03	3.61	30	40-
"3-butadiene	1.230	0.15	1	ø	123	70	130	1.17	Ø	30	
.3-Dichlorobenzene	1.020	0.15	1	ā	102	7Q	130	1.27	3.20	30	
ensznedoroldak.	1.290	0.15	1.	a:	1 W.C	70	130	1	1.98	30	
4-Dioxene	1.340	0.15	1	o	120	70	130	1.26	2.35	30	
2.4-trimethylpentana	1,190	0.30	4:	ã	(134)	70	130	1.26	6.15	30	8
ethyttoluene	1.110	0.15	4	Ö	119	70	130	1.29	8.06	30	-2,78
cetone	1.300	0.15	•	ů ů	111	70	130	1.09	1.82	30 30	
lyl chloride	0.8700	0.30	9	r,	130	የዕ	130	1.3	0	30	
30.2806	0.9600	0.15	้	(A)	87.0	70	1.30	0.86	1.16		
nzyl chloride	1.110	0.15	•	ų G	96.0	70	130	0.69	7.57	30	
omodichloromethane	1.220	0.16	4	Ę, F	111	γo	130	1.08	2.74	30	
omoform omoform	1.250	0.15	1	O -	122	70	130	1.27		30	
	1.280	0.16	f. 4	0	125	70	130	1.2	4.02	30	
omomelhane	1.110	0.15	l «r	O	128	70	130	1.23	4.08	90	
alifiers: Beauty managed	a nor blank corrected	era sega	1	Q	111	70	130	1.08	3.98 4.61	30 30	

- Analyse detected below quantitation limit
- Spike Recuvery autside accepted accovery limits
- E. Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection

- H Holding times for proparation or analysis exceeded
- RPD outside accepted recovery limits

CLIENT: Ravi Engineering & Land Surveying, P.C.

Prior Prio	Popular Popu	Result Project Proje			Qualification	Manufest Assessment	Teleghander	Toffachion	Stylene	onalygon ^{al}	o-Xyleng	Methylene chloride	Methyl text	Methyl teol	Methyl Eth	Methyl Bu	пар-хумно	lectropy! alcohol	i-fexane	Hexachlo	Heptane	Freon 12	Freen 114	Freen 113	Freen 11	Ethylbenzene	Emyl acetate	Dibrom	#Upwequeko	cis-1,3-	Cis-1,2	Chloro	Chloroform	Chlere	Chlora	Carbo	Carbo	Analyte	_
PQL SPK value SPK Ref Val Analysis Cambridge Country of the Country of the Cambridge C	Fort. SPIK value SPIK Ref Val 488.0 70 0.15 1 0 105 70 0.16 1 0 106 70 0.15 1 0 106 70 0.15 1 0 106 70 0.15 1 0 106 70 0.15 1 0 106 70 0.15 1 0 106 70 0.15 1 0 106 70 0.15 1 0 106 70 0.15 1 0 106 70 0.15 1 0 106 70 0.15 1 0 106 70 0.15 1 0 107 70 0.15 1 0 107 70 0.15 1 0 100 70 0.15 1 0 95.0 70 11 0.15 1 0 95.0 70 11 0.15 1 0 95.0 70 13 0.15 1 0 95.0 70 13 0.15 1 0 95.0 70 13 0.15 1 0 95.0 70 13 0.15 1 0 95.0 70 13 0.15 1 0 95.0 70 13 0.15 1 0 95.0 70 13 0.15 1 0 95.0 70 13 0.15 1 0 95.0 70 13 0.15 1 0 95.0 70 13 0.15 1 0 95.0 70 13 0.15 1 0 95.0 70 13 0.15 1 0 95.0 70 13 0.15 1 0 95.0 70 13 0.15 1 0 95.0 70 13 0.15 1 0 95.0 70 13	TossiNo: TO-18 PROV. SPK value SPK Ref Vest Annalysis Date: 1271/2017 Run 0.040 1 0 98.0 70 130 <td></td> <td>A second to the second second</td> <td></td> <td>STATE OF THE PARTY OF THE PARTY</td> <td></td> <td>dila Hara</td> <td></td> <td></td> <td></td> <td>chloride</td> <td>bulyi ether</td> <td>sulyi Kelone</td> <td>yl Kelone</td> <td>Vi Ketone</td> <td></td> <td>alcanal</td> <td></td> <td>ro-1,3-butadiene</td> <td></td> <td></td> <td>***</td> <td>63</td> <td></td> <td>Kene</td> <td></td> <td>ochloromethane</td> <td>XIII A</td> <td>Dichoropropers</td> <td>Dichloroethene</td> <td>nethane</td> <td>fare</td> <td>ethane</td> <td>CONTRACTOR OF THE PROPERTY OF</td> <td>n tetrachlorida</td> <td>MICHELLER</td> <td>TO THE</td> <td></td>		A second to the second		STATE OF THE PARTY		dila Hara				chloride	bulyi ether	sulyi Kelone	yl Kelone	Vi Ketone		alcanal		ro-1,3-butadiene			***	63		Kene		ochloromethane	XIII A	Dichoropropers	Dichloroethene	nethane	fare	ethane	CONTRACTOR OF THE PROPERTY OF	n tetrachlorida	MICHELLER	TO THE	
Fosilvo: TO-18 PQL SPK ratiue SPK Ref Val %REC LowLant 0.040 1 0 98.0 70 108 70 108 70 108 70 108 70 108 70 108 70 108 70 108 70 108 70 108 70 108 70 108 70 108 70 108 70 108 70 108 70 108 108 70 1	FrestNo: TO-18 PQL SPK value SPK Ref Vel Analysis Date: 0.040 0.15 0.16 0.15 1 0 0.16 0.15 1 0 0.16 0.15 1 0 0.16 0.16 1 0 0.17 0 0.18 1 0 0.18 1 0 0.19 0.19 1 0 0.19 0.15 1 0 0.19 0.16 1 0 0.19 0.16 1 0 0.17 0 0.18 1 0 0.18 1 0 0.19 0 0.19 0 0 0.19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Prop Date: Prop Date: Prop Date: Run Prop Date: Prop Date: Run Prop Date: Run Prop Date:	w.quantitation limit do accepted recovery limits	not filank corrected	: :							0.2500		1.080	7, 750	X.300	0086:0	0,000	7.480	, QQQ	1.090	7,120	1.000	1.710	1,040	1.000	1.210	1.000	7, 140	0,9800	1,040	1.040	1.060	1,180	1.080	0.989.0			
Analysis Ca Analys	K Ref Val %FREC LowLimit His On 109 70 109 7	Ref Val Reic LowLimit HightImit Red Run Analysis Date: 12/11/2017 Seq Analysis Date: 12/11/	W.	3	0.15	0.14		3 (3	Š	Ø.16	02.0	0.30	0.30	0.30	o.	0.16 16	0. TS	0,15	Ö	0.15	0.16	5	o T	ç Ö	<u>o</u> 5	0 15	<u> </u>	Д Б	0.3	<u>0</u>	0	© 3	0.040	0.16	ក្តី	Tes:	
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Analysis Da LowLink CowLink 70 70 70 70 70 70 70 70 70 70 70 70 70	Analysis Carte: **CowClimit His 70 70 70 70 70 70 70 70 70 70 70 70 70	Prop Date: Run Analysis Date: 12/11/2017 Seq LowLimit HighLimit RPD Ref Val 70 130	ng.		227		•		0	O.56	0,28	117		_	175	0.36	63.0		.					~		121		0 114	0,89	0 104	Ω 104							:	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN T
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والمقاول والمرابعة والمراجعة والمراج

Project: 3130 Monrae Ave

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0.866	1.04	130		ŤOA :	Ö	_		4	ols-1,3-Dichloropropens
4,69	1.04	1.60	Ž (100	0	523	÷ 5	4	us-1,2-Lichloronthene
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1,68	1, 10		2	T CO	Ġ		3 6	1 500	All land and the land of the l
3,50		130	Ď	120	Ç	٠.	P A	1.080	Chloroform
		130	70) c	, تعه	Q.149	1.200	Chlanethere
AUNT TOWNS THE PROPERTY OF THE	0.94	100	8	i di	3 6	 -%	0.040	7.130	Chlorobenzene
Can's	EA BACKE		and the same of th		U.	- 4	0.16		Carbon tetrachloride
Ç		콧*	CowCind	%.T.E.O	SOK Ref Val	SPK value S	TO S	A CANADA	cathon disulting
	2017) ate: 12/11/2017	Analysis Date:			í			Analyte
PEDE PERMITTAL	A COMPANY COMP	lale:	Prep Date:	24	Andi zame	Testivo: TO-15	Testive	Baich (D: R13034	
A COLOR	TOWNS THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I	WANTED THE SAME OF THE PARTY OF							

Evaluate Continuing Calibration Report

Data File: C:\HPCHEM\1\DATA\AO120802.D Acq On: 8 Dec 2017 12:29 pm Sample: AluG 1.0 Misc: AN27_IUG MS Integration Params: RTBINF.P

MSD #1

inst. Miltiple:

e de

Vial: Operator:

C:\HPCHEW\1\MRTHODS\AN27_1UG.M (RTB Integrator)
TO-15 VOA Standards for 5 point calibration
Wed Jan 03 09:59:47 2018
Multiple Level Calibration Method Title

Response via

0.33min Max. R.T. Dev ... 120% Min. Rel. Area Max. Rel. Area 0,000 30% Min. RRF Max. RRF Dev Last Update

1	Compound	ANTH	CCRF	\$Dev	Area%	Dev (min)
	Bromochloromethane	000.4			123	9 66
	Propylene	(A)	60 G) (7) (8)	, (, () (;
ب ج	Freon 12	1 CC +		1 400 1 400 1	## 20 12 1 12 1 1	4
	Chloromethane	· k	44 (A)	-10.0	100	4 *
E⊣ vn ·		(A)	4.	-14.3		в (
	Vinyl Chloride	4	12		1634	,
	Butane	4. E. E. E	1,534	, .	# 444 1 PM 1 LET 1 CM	
	1, 3-butadiene	(4) (4)	1,200	40	156	
ርምነ	Bromomethane	1.405	131	i i		3 . GT
۳	Chloroethane	Œ	C C C C C	(e-1	, (°\) (°\) (°\	
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TO-15 VOA Standards for 5 point calibration
Wed Jan 03 09:59:47 2018 Title Last Update Method

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Response via Last Opdate

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Appendix C

Validator Qualifications

KENNETH R. APPLIN Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

3130 Monroe Ave. Rochester, NY NYSDEC BCP # C 828109

SDG: 0791-01

4 Water Samples

Prepared for:

Ravi Engineering & Land Surveying, P.C. 2110 South Clinton Avenue, Suite 1 Rochester, NY 14618

May 2017



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Table -	4-1 Data Val	lidation Guidance Documents	

Quality Control Criteria for Validating Laboratory Analytical Data

Summaries of Validated Results

Table 6-1 VOCs

Table 4-2

REVIEWER'S NARRATIVE SDG 0791-01

The data associated with this Sample Delivery Group (SDG) 0791-01, analyzed by Paradigm Environmental Services, Inc. Rochester, NY have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature:

Michael K. Perry

Chemist

Date:__

1.0 SUMMARY

SITE:

3130 Monroe Ave.

Rochester, NY

SAMPLING DATE:

March 02, 2017

SAMPLE TYPE:

4 water samples and one trip blank

LABORATORY:

Paradigm Environmental Services, Inc.

Rochester, NY

SDG No.:

0791-01

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for, four water samples and a trip blank collected on March 02, 2017. These samples were analyzed for the volatile organic compounds.

All laboratory analyses were performed by Paradigm Environmental Services, Inc., Rochester, NY and analyzed as SDG 0791-01. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance
	USEPA, 2008, Validating Volatile Organic Compounds By Gas
	Chromatography/Mass Spectrometry; SW-846 Method 8260B;
	SOP # HW-24, Rev. 2.
VOCs	
	USEPA, 2008, Statement of Work for Organic Analysis of
	Low/Medium Concentration of Volatile Organic
	Compounds SOM01.2; SOP HW-33, Rev. 2.
	USEPA, 2007, Statement of Work for Organic Analysis of
SVOCs	Low/Medium Concentration of Semivolatile Organic
	Compounds SOM01.2; SOP HW-35, Rev. 1.
	USEPA, 2006, CLP Organics Data Review and Preliminary
Pesticides/PCBs	Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14,
	Part C.
	USEPA, 2006, Validation of Metals for the Contract Laboratory
Metals	Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13),
	SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis
(Ambient air)	of Ambient Air in Canister by Method TO-15; SOP # HW-31,
(miorem au)	Rev. 4.

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING
LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg Sample Condition Holding Time System Monitoring Compounds Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Matrix Spikes Blanks Instrument Calibration & Verification Analyte ID Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Initial/Continuing Calibration CRDL Standards Blanks Interference Check Sample Spike Recoveries Lab Duplicate Lab Control Sample ICP Serial Dilutions Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Times Calibration Lab Control Samples Blanks Spike Recoveries Lab Duplicates	Completeness of Pkg Sample Condition Holding Time Canister Certification Lab Control Sample Instrument Tuning Blanks Initial Calibration & System Performance Daily Calibration Field Duplicate

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

- U The analyte was analyzed for but was not detected at or above the sample quantitation limit.
- The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
- JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1. The table list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 0791-01, five samples were analyzed and results were reported for 265 analytes. Five results were rejected. Even though some results were flagged with a "J" as estimated, all other results (98 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

SDG 0791-01

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	1,4-Dioxane	R	Initial calibration RRF < 0.005 (0.004)	Based on the new low responders rule from SOM2.1, the RRF <0.005 is used
All samples	Bromomethane Dichlorodifluoromethane Acetone	J detects/UJ non-detects	CCV > 20 %	Results are estimated

ACRONYMS

BSP Blank Spike

CCAL Continuing Calibration

CCB Continuing Calibration Blank

CCV Continuing Calibration Verification

CRDL Contract Required Detection Limit

CRQL Contract Required Quantitation Limit

%D Percent Difference

ICAL Initial Calibration

ICB Initial Calibration Blank

IS Internal Standard

LCS Laboratory Control Sample

MS/MSD Matrix Spike/Matrix Spike Duplicate

QA Quality Assurance

QC Quality Control

%R Percent recovery

RPD Relative Percent Difference

RRF Relative Response Factor

%RSD Percent Relative Standard Deviation

TAL Target Analyte List (metals)

TCL Target Compound List (organics)

Appendix A

Validated Analytical Results

LAB PROJECT NARRATIVE: 170791 PROJECT NAME: 3130 Monroe Ave.

SDG: 0791-01

CLIENT: Ravi Engineering & Land Surveying, P.C.

Four Groundwater samples and one Trip Blank were collected by the client on 03/02/2017 and received at the Paradigm laboratory on the same day, late in the day. Container and holding times were acceptable at time of receipt; the samples were received at 13° Centigrade and were on ice. Sample were submitted for the TCL list for VOCs. All analyses were performed using EPA SW-846 Methods and the associated holding times.

The items noted in this case narrative address compliance with the referenced methods, NYSDOH ELAP rules, and any project specific data quality requirements. These may be different from the usability criteria referenced in any "Functional Guidelines" or other data review standards used by data validators.

GENERAL NOTES

The initial and continuing calibration reports are only evaluated for compounds that are on the sample summary report.

Regarding results on QC summary forms versus included raw data, due to calculations made at the instrument where many significant figures may be used, there may be slight discrepancies between the summary report result and that recorded on the raw data. This does not affect data usability.

Regarding initial calibrations, it should be noted that the Quantitation Report concentrations supplied for the initial calibration reflect the calibration prior to updating. The response factors and areas are correct.

Regarding Quantitation Reports, it should be noted that the "#" symbol that appears on some of the Quantitation Reports is a software artifact and should be disregarded.

VOLATILES

Holding times were met for all samples.

The surrogate recoveries for the samples and QC samples were within QC limits.

Site specific QC was not requested on this SDG. The Laboratory Control Sample recovered within acceptance limits.

The method blank was free from contamination within the reportable ranges.

The instrument tunes passed all criteria.

The internal standards areas and retention times were within acceptance limits for the samples and the associated QC.

All data for the initial calibration was within acceptance limits. Compounds flagged with an "*" on the summary table have been calibrated using a non-average Response Factor calibration curve. The supporting curves are located after the initial calibration table.

All continuing calibration data was within acceptance limits.

(Signed) Provident Provident

(date) 4/18/2017

SDG#:

0791-01

LAB PROJECT #:

170791

CLIENT:

RAVI

BATCH COMPLETE:

3/3/17

DATE DUE:

4/3/17

PROJECT NAME: 3130 Monroe Ave

PROTOCOL: SW846

LAB.SAMPLE#	FIELD ID	MATRIX	REQUESTED ANALYSIS	DATE SAMPLED	DATE REC'D
170791-01	MW-1	WG	TCL VOC	3/2/17	3/3/17
170791-02	MW-2	WG	TCL VOC	3/2/17	3/3/17
170791-03	MW-3	WG	TCL VOC	3/2/17	3/3/17
170791-04	MW-4	WG	TCL VOC	3/2/17	3/3/17
170791-05	T-736	WG	TCL VOC	3/2/17	3/3/17
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PAR	ADIG	M		CLIENT:	REPORT TO:	# 1990 P		CLIENT:	es, labor		NVOICE	то: 🕦	175.00	CWARD A			2. 中型跨越的企业基础以	
				ADDRESS:	921			ADDRES		_\$±	tor E				<u> </u>	LAB PROJE	CT ID	
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See additional page for sample conditions.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave

Sample Identifier:

MW-1

Lab Sample ID:

170791-01

Matrix:

Groundwater

Date Sampled:

3/2/2017

Date Received: 3/3/2017

Volatile Organics

Analyte	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		3/8/2017 17:23
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		3/8/2017 17:23
1,1,2-Trichloroethane	< 2.00	ug/L		3/8/2017 17:23
1,1-Dichloroethane	< 2.00	ug/L		3/8/2017 17:23
1,1-Dichloroethene	< 2.00	ug/L		3/8/2017 17:23
1,2,3-Trichlorobenzene	< 5.00	ug/L		3/8/2017 17:23
1,2,4-Trichlorobenzene	< 5.00	ug/L		3/8/2017 17:23
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		3/8/2017 17:23
1,2-Dibromoethane	< 2.00	ug/L		3/8/2017 17:23
1,2-Dichlorobenzene	< 2.00	ug/L		3/8/2017 17:23
1,2-Dichloroethane	< 2.00	ug/L		3/8/2017 17:23
1,2-Dichloropropane	< 2.00	ug/L		3/8/2017 17:23
1,3-Dichlorobenzene	< 2.00	ug/L		3/8/2017 17:23
1,4-Dichlorobenzene	< 2.00	ug/L		3/8/2017 17:23
1,4-dioxane	<29.0 R	ug/L		3/8/2017 17:23
2-Butanone	< 10.0	ug/L		3/8/2017 17:23
2-Hexanone	< 5.00	ug/L		3/8/2017 17:23
4-Methyl-2-pentanone	< 5.00	ug/L		3/8/2017 17:23
Acetone	<10.0 UJ	ug/L		3/8/2017 17:23
Benzene	< 1.00	ug/L		3/8/2017 17:23
Bromochloromethane	< 5.00	ug/L		3/8/2017 17:23
Bromodichloromethane	< 2.00	ug/L		3/8/2017 17:23
Bromoform	< 5.00	ug/L		3/8/2017 17:23
Bromomethane	<2.00 UJ	ug/L		3/8/2017 17:23
Carbon disulfide	< 2.00	ug/L		3/8/2017 17:23
Carbon Tetrachloride	< 2.00	ug/L		3/8/2017 17:23
Chlorobenzene	< 2.00	ug/L		3/8/2017 17:23



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave

Sample Identifier:	MW-1					
Lab Sample ID:	170791-01			Date Sampled:	3/2/2017	
Matrix:	Groundwater			Date Received:	3/3/2017	
Chloroethane		< 2.00	ug/L		3/8/2017	17:23
Chloroform		< 2.00	ug/L		3/8/2017	
Chloromethane		< 2.00	ug/L		3/8/2017	
cis-1,2-Dichloroethene		< 2.00	ug/L		3/8/2017	
cis-1,3-Dichloropropene	•	< 2.00	ug/L		3/8/2017	
Cyclohexane		< 10.0	ug/L		3/8/2017	
Dibromochloromethane		< 2.00	ug/L		3/8/2017	
Dichlorodifluoromethan	e	< 2.00 NJ	ug/L		3/8/2017	
Ethylbenzene		< 2.00	ug/L		3/8/2017	
Freon 113		< 2.00	ug/L		3/8/2017	
Isopropylbenzene		< 2.00	ug/L		3/8/2017	
m,p-Xylene		< 2.00	ug/L		3/8/2017	
Methyl acetate		< 2.00	ug/L		3/8/2017	
Methyl tert-butyl Ether		< 2.00	ug/L		3/8/2017	
Methylcyclohexane		< 2.00	ug/L		3/8/2017	
Methylene chloride		< 5.00	ug/L		3/8/2017	
o-Xylene		< 2.00	ug/L		3/8/2017	
Styrene		< 5.00	ug/L		3/8/2017	
Tetrachloroethene		< 2.00	ug/L		3/8/2017	
Toluene		< 2.00	ug/L		3/8/2017	
trans-1,2-Dichloroethene	:	< 2.00	ug/L		3/8/2017	
trans-1,3-Dichloroproper	ne	< 2.00	ug/L		3/8/2017	
Trichloroethene		< 2.00	ug/L		3/8/2017	
Trichlorofluoromethane		< 2.00	ug/L		3/8/2017	
Vinyl chloride		< 2.00	ug/L		3/8/2017	



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave

Sample Identifier:

MW-1

Lab Sample ID:

170791-01

Date Sampled:

3/2/2017

Matrix:

Groundwater

Date Received: 3/3/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Anal	yzed
1,2-Dichloroethane-d4	106	81.2 - 120		3/8/2017	17:23
4-Bromofluorobenzene	87.2	82,4 - 112		3/8/2017	17:23
Pentafluorobenzene	94.3	90.2 - 112		3/8/2017	17:23
Toluene-D8	96.4	89.9 - 109		3/8/2017	17:23

Method Reference(s):

EPA 8260C

EPA 5030C

Data File:

x39899.D



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave

Sample Identifier:

MW-2

Lab Sample ID:

170791-02

Matrix:

Groundwater

Date Sampled:

3/2/2017

Date Received: 3/3/2017

Volatile Organics

	Analyte	Result	Units	Qualifier	Date Analyzed
	1,1,1-Trichloroethane	< 2.00	ug/L		3/8/2017 20:49
	1,1,2,2-Tetrachloroethane	< 2.00	ug/L		3/8/2017 20:49
	1,1,2-Trichloroethane	< 2.00	ug/L		3/8/2017 20:49
	1,1-Dichloroethane	< 2.00	ug/L		3/8/2017 20:49
	1,1-Dichloroethene	< 2.00	ug/L		3/8/2017 20:49
	1,2,3-Trichlorobenzene	< 5.00	ug/L		3/8/2017 20:49
	1,2,4-Trichlorobenzene	< 5.00	ug/L		3/8/2017 20:49
	1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	,	3/8/2017 20:49
	1,2-Dibromoethane	< 2.00	ug/L		3/8/2017 20:49
	1,2-Dichlorobenzene	< 2.00	ug/L		3/8/2017 20:49
	1,2-Dichloroethane	< 2.00	ug/L		3/8/2017 20:49
	1,2-Dichloropropane	< 2.00	ug/L		3/8/2017 20:49
	1,3-Dichlorobenzene	< 2.00	ug/L		3/8/2017 20:49
	1,4-Dichlorobenzene	< 2.00	ug/L		3/8/2017 20:49
	1,4-dioxane	<28:0 R	ug/L		3/8/2017 20:49
	2-Butanone	< 10.0	ug/L		3/8/2017 20:49
	2-Hexanone	< 5.00	ug/L		3/8/2017 20:49
	4-Methyl-2-pentanone	< 5.00	ug/L		3/8/2017 20:49
	Acetone	6.60 ナ	ug/L	J	3/8/2017 20:49
	Benzene	< 1.00	ug/L		3/8/2017 20:49
	Bromochloromethane	< 5.00	ug/L		3/8/2017 20:49
•	Bromodichloromethane	< 2.00	ug/L		3/8/2017 20:49
	Bromoform	< 5.00	ug/L		3/8/2017 20:49
	Bromomethane	<2.00 NJ	ug/L		3/8/2017 20:49
	Carbon disulfide	< 2.00	ug/L		3/8/2017 20:49
	Carbon Tetrachloride	< 2.00	ug/L		3/8/2017 20:49
	Chlorobenzene	< 2.00	ug/L		3/8/2017 20:49



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave

Sample Identifier:	MW-2				
Lab Sample ID:	170791-02			Date Sampled:	3/2/2017
Matrix:	Groundwater			Date Received:	3/3/2017
Chloroethane		< 2.00	ug/L		3/8/2017 20:49
Chloroform		< 2.00	ug/L		3/8/2017 20:49
Chloromethane		< 2.00	ug/L		3/8/2017 20:49
cis-1,2-Dichloroethene		< 2.00	ug/L		3/8/2017 20:49
cis-1,3-Dichloropropene		< 2.00	ug/L		3/8/2017 20:49
Cyclohexane		< 10.0	ug/L		3/8/2017 20:49
Dibromochloromethane		< 2.00	ug/L		3/8/2017 20:49
Dichlorodifluoromethane	2	<2.00 UJ	ug/L		3/8/2017 20:49
Ethylbenzene		< 2.00	ug/L		3/8/2017 20:49
Freon 113		< 2.00	ug/L		3/8/2017 20:49
Isopropylbenzene		< 2.00	ug/L		3/8/2017 20:49
m,p-Xylene		1.94	ug/L	J	3/8/2017 20:49
Methyl acetate		< 2.00	ug/L		3/8/2017 20:49
Methyl tert-butyl Ether		< 2.00	ug/L		3/8/2017 20:49
Methylcyclohexane		< 2.00	ug/L		3/8/2017 20:49
Methylene chloride		< 5.00	ug/L		3/8/2017 20:49
o-Xylene		1.99	ug/L	J	3/8/2017 20:49
Styrene		< 5.00	ug/L		3/8/2017 20:49
Tetrachloroethene		< 2.00	ug/L		3/8/2017 20:49
Toluene		< 2.00	ug/L		3/8/2017 20:49
trans-1,2-Dichloroethene		< 2.00	ug/L		3/8/2017 20:49
trans-1,3-Dichloropropen	e	< 2.00	ug/L		3/8/2017 20:49
Trichloroethene '		< 2.00	ug/L		3/8/2017 20:49
Trichlorofluoromethane		< 2.00	ug/L		3/8/2017 20:49
Vinyl chloride		< 2.00	ug/L		3/8/2017 20:49



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave

Sample Identifier:

MW-2

Lab Sample ID:

170791-02

Matrix:

Groundwater

Date Sampled:

3/2/2017

Date Received: 3/3/2017

Percent Recovery	Limits	Outliers	Date Anal	vzed
106	81.2 - 120		3/8/2017	20:49
93,6	82.4 - 112		3/8/2017	20:49
95.4	90.2 - 112		3/8/2017	20:49
95.0	89.9 - 109		3/8/2017	20:49
	106 93.6 95.4	10681.2 - 12093.682.4 - 11295.490.2 - 112	106 81.2 - 120 93.6 82.4 - 112 95.4 90.2 - 112	106 81.2 - 120 3/8/2017 93.6 82.4 - 112 3/8/2017 95.4 90.2 - 112 3/8/2017

Method Reference(s):

EPA 8260C

Data File:

EPA 5030C

x39908.D



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave

Sample Identifier:

MW-3

Lab Sample ID:

170791-03

Matrix:

Groundwater

Date Sampled: 3/2/2017

Date Received: 3/3/2017

Volatile Organics

<u>Analyte</u>	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L	•	3/8/2017 18:09
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		3/8/2017 18:09
1,1,2-Trichloroethane	< 2.00	ug/L		3/8/2017 18:09
1,1-Dichloroethane	< 2.00	ug/L		3/8/2017 18:09
1,1-Dichloroethene	< 2.00	ug/L		3/8/2017 18:09
1,2,3-Trichlorobenzene	< 5.00	ug/L		3/8/2017 18:09
1,2,4-Trichlorobenzene	< 5.00	ug/L		3/8/2017 18:09
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		3/8/2017 18:09
1,2-Dibromoethane	< 2.00	ug/L		3/8/2017 18:09
1,2-Dichlorobenzene	< 2.00	ug/L		3/8/2017 18:09
1,2-Dichloroethane	< 2.00	ug/L		3/8/2017 18:09
1,2-Dichloropropane	< 2.00	ug/L		3/8/2017 18:09
1,3-Dichlorobenzene	< 2.00	ug/L		3/8/2017 18:09
1,4-Dichlorobenzene	< 2.00	ug/L		3/8/2017 18:09
1,4-dioxane	< 30.0 R	ug/L		3/8/2017 18:09
2-Butanone	< 10.0	ug/L		3/8/2017 18:09
2-Hexanone	< 5.00	ug/L		3/8/2017 18:09
4-Methyl-2-pentanone	< 5.00	ug/L		3/8/2017 18:09
Acetone	<10.0 NJ	ug/L		3/8/2017 18:09
Benzene	< 1.00	ug/L		3/8/2017 18:09
Bromochloromethane	< 5.00	ug/L		3/8/2017 18:09
Bromodichloromethane	< 2.00	ug/L		3/8/2017 18:09
Bromoform	< 5.00	ug/L		3/8/2017 18:09
Bromomethane	<2.00uJ	ug/L		3/8/2017 18:09
Carbon disulfide	< 2.00	ug/L		3/8/2017 18:09
Carbon Tetrachloride	< 2.00	ug/L		3/8/2017 18:09
Chlorobenzene	< 2.00	ug/L		3/8/2017 18:09



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave

Sample Identifier:	MW-3					
Lab Sample ID:	170791-03			Date Sampled:	3/2/2017	
Matrix:	Groundwater			Date Received:	3/3/2017	
Chloroethane		< 2.00	ug/L		3/8/2017	18:0
Chloroform		< 2.00	ug/L		3/8/2017	18:0
Chloromethane		< 2.00	ug/L		3/8/2017	18:0
cis-1,2-Dichloroethene		< 2.00	ug/L		3/8/2017	18:0
cis-1,3-Dichloropropene		< 2.00	ug/L		3/8/2017	18:0
Cyclohexane		< 10.0	ug/L		3/8/2017	18:0
Dibromochloromethane		< 2.00	ug/L		3/8/2017	18:0
Dichlorodifluoromethane	•	< 2.00 UJ	ug/L		3/8/2017	18:0
Ethylbenzene		< 2.00	ug/L		3/8/2017	18:0
Freon 113		< 2.00	ug/L		3/8/2017	18:0
Isopropylbenzene		< 2.00	ug/L		3/8/2017	18:0
m,p-Xylene		< 2.00	ug/L		3/8/2017	18:0
Methyl acetate		< 2.00	ug/L		3/8/2017	18:0
Methyl tert-butyl Ether		< 2.00	ug/L		3/8/2017	18:0
Methylcyclohexane		< 2.00	ug/L		3/8/2017	18:0
Methylene chloride		< 5.00	ug/L		3/8/2017	18:0
o-Xylene		< 2,00	ug/L		3/8/2017	18:0
Styrene		< 5.00	ug/L		3/8/2017	18:0
Tetrachloroethene		1.92	ug/L	J	3/8/2017	18:0
Toluene		< 2.00	ug/L		3/8/2017	18:0
trans-1,2-Dichloroethene		< 2.00	ug/L		3/8/2017	18:0
trans-1,3-Dichloroproper	ne	< 2.00	ug/L		3/8/2017	18:0
Trichloroethene		< 2.00	ug/L		3/8/2017	18:0
Trichlorofluoromethane		< 2.00	ug/L		3/8/2017	18:0
Vinyl chloride		< 2.00	ug/L		3/8/2017	18:0



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave

Sample Identifier:

MW-3

Lab Sample ID:

170791-03

Matrix:

Date Sampled:

3/2/2017

Groundwater

Date Received: 3/3/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Anal	yzed
1,2-Dichloroethane-d4	107	81.2 - 120		3/8/2017	18:09
4-Bromofluorobenzene	88.1	82.4 - 112		3/8/2017	18:09
Pentafluorobenzene	96.2	90.2 - 112		3/8/2017	18:09
Toluene-D8	96.4	89.9 - 109		3/8/2017	18:09

Method Reference(s):

EPA 8260C EPA 5030C

Data File:

x39901.D



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave

Sample Identifier:

MW-4

Lab Sample ID:

170791-04

Matrix:

Groundwater

Date Sampled:

3/2/2017

Date Received: 3/3/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		3/8/2017 18:32
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		3/8/2017 18:32
1,1,2-Trichloroethane	< 2.00	ug/L		3/8/2017 18:32
1,1-Dichloroethane	< 2.00	ug/L		3/8/2017 18:32
1,1-Dichloroethene	< 2.00	ug/L		3/8/2017 18:32
1,2,3-Trichlorobenzene	< 5.00	ug/L		3/8/2017 18:32
1,2,4-Trichlorobenzene	< 5.00	ug/L		3/8/2017 18:32
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		3/8/2017 18:32
1,2-Dibromoethane	< 2.00	ug/L		3/8/2017 18:32
1,2-Dichlorobenzene	< 2.00	ug/L		3/8/2017 18:32
1,2-Dichloroethane	< 2.00	ug/L		3/8/2017 18:32
1,2-Dichloropropane	< 2.00	ug/L		3/8/2017 18:32
1,3-Dichlorobenzene	< 2.00	ug/L		3/8/2017 18:32
1,4-Dichlorobenzene	< 2.00	ug/L		3/8/2017 18:32
1,4-dioxane	< 20.0 R	ug/L		3/8/2017 18:32
2-Butanone	< 10.0	ug/L		3/8/2017 18:32
2-Hexanone	< 5.00	ug/L		3/8/2017 18:32
4-Methyl-2-pentanone	< 5.00	ug/L		3/8/2017 18:32
Acetone	<10.0 UJ	ug/L		3/8/2017 18:32
Benzene	< 1.00	ug/L		3/8/2017 18:32
Bromochloromethane	< 5.00	ug/L		3/8/2017 18:32
Bromodichloromethane	< 2.00	ug/L		3/8/2017 18:32
Bromoform	< 5.00	ug/L		3/8/2017 18:32
Bromomethane	< 2.00 NJ	ug/L		3/8/2017 18:32
Carbon disulfide	< 2.00	ug/L		3/8/2017 18:32
Carbon Tetrachloride	< 2.00	ug/L		3/8/2017 18:32
Chlorobenzene	< 2.00	ug/L		3/8/2017 18:32

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

WED Slinly



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave

Sample Identifier:	MW-4				
Lab Sample ID:	170791-04			Date Sampled:	3/2/2017
Matrix:	Groundwater			Date Received:	3/3/2017
Chloroethane		< 2.00	ug/L		3/8/2017 18:32
Chloroform		< 2.00	ug/L		3/8/2017 18:32
Chloromethane		< 2.00	ug/L		3/8/2017 18:32
cis-1,2-Dichloroethene		< 2.00	ug/L		3/8/2017 18:32
cis-1,3-Dichloropropene	•	< 2.00	ug/L		3/8/2017 18:32
Cyclohexane		< 10.0	ug/L		3/8/2017 18:32
Dibromochloromethane		< 2.00	ug/L		3/8/2017 18:32
Dichlorodifluoromethan	e	<2.00 UJ	ug/L		3/8/2017 18:32
Ethylbenzene		< 2.00	ug/L		3/8/2017 18:32
Freon 113		< 2.00	ug/L		3/8/2017 18:32
lsopropylbenzene		< 2.00	ug/L	•	3/8/2017 18:32
m,p-Xylene		< 2.00	ug/L		3/8/2017 18:32
Methyl acetate		< 2.00	ug/L		3/8/2017 18:32
Methyl tert-butyl Ether		< 2.00	ug/L		3/8/2017 18:32
Methylcyclohexane		< 2.00	ug/L		3/8/2017 18:32
Methylene chloride		< 5.00	ug/L		3/8/2017 18:32
o-Xylene		< 2.00	ug/L		3/8/2017 18:32
Styrene		< 5.00	ug/L		3/8/2017 18:32
Tetrachloroethene		< 2.00	ug/L		3/8/2017 18:32
Toluene		< 2.00	ug/L		3/8/2017 18:32
trans-1,2-Dichloroethen	е	< 2.00	ug/L		3/8/2017 18:32
trans-1,3-Dichloroprope	ne	< 2.00	ug/L		3/8/2017 18:32
Trichloroethene		< 2.00	ug/L		3/8/2017 18:32
Trichlorofluoromethane		< 2.00	ug/L		3/8/2017 18:32
Vinyl chloride		< 2.00	ug/L		3/8/2017 18:32



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave

Sample Identifier:

MW-4

Lab Sample ID:

170791-04

Date Sampled:

3/2/2017

Matrix:

Groundwater

Date Received: 3/3/2017

Surrogate **Percent Recovery** Limits **Outliers Date Analyzed** 1,2-Dichloroethane-d4 107 81.2 - 120 3/8/2017 18:32 4-Bromofluorobenzene 84.3 82.4 - 112 3/8/2017 18:32 Pentafluorobenzene 95.0 90.2 - 112 3/8/2017 18:32 Toluene-D8 99.6 89.9 - 109 3/8/2017 18:32

Method Reference(s):

EPA 8260C EPA 5030C

Data File:

x39902.D



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave

Sample Identifier:

T-736 Trip Blank

Lab Sample ID:

170791-05

Date Sampled: 3/

3/2/2017

Matrix:

Water

Date Received: 3/3/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		3/8/2017 16:59
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		3/8/2017 16:59
1,1,2-Trichloroethane	< 2.00	ug/L		3/8/2017 16:59
1,1-Dichloroethane	< 2.00	ug/L		3/8/2017 16:59
1,1-Dichloroethene	< 2.00	ug/L		3/8/2017 16:59
1,2,3-Trichlorobenzene	< 5.00	ug/L		3/8/2017 16:59
1,2,4-Trichlorobenzene	< 5.00	ug/L		3/8/2017 16:59
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		3/8/2017 16:59
1,2-Dibromoethane	< 2.00	ug/L		3/8/2017 16:59
1,2-Dichlorobenzene	< 2.00	ug/L		3/8/2017 16:59
1,2-Dichloroethane	< 2.00	ug/L		3/8/2017 16:59
1,2-Dichloropropane	< 2.00	ug/L		3/8/2017 16:59
1,3-Dichlorobenzene	< 2.00	ug/L		3/8/2017 16:59
1,4-Dichlorobenzene	< 2.00	ug/L		3/8/2017 16:59
1,4-dioxane	<20.0 R	ug/L		3/8/2017 16:59
2-Butanone	< 10.0	ug/L		3/8/2017 16:59
2-Hexanone	< 5.00	ug/L		3/8/2017 16:59
4-Methyl-2-pentanone	< 5.00	ug/L		3/8/2017 16:59
Acetone	<10.0 VIJ	ug/L		3/8/2017 16:59
Benzene	< 1.00	ug/L		3/8/2017 16:59
Bromochloromethane	< 5.00	ug/L		3/8/2017 16:59
Bromodichloromethane	< 2.00	ug/L		3/8/2017 16:59
Bromoform	< 5.00	ug/L		3/8/2017 16:59
Bromomethane	< 2.00 WJ	ug/L		3/8/2017 16:59
Carbon disulfide	< 2.00	ug/L		3/8/2017 16:59
Carbon Tetrachloride	< 2.00	ug/L		3/8/2017 16:59
Chlorobenzene	< 2.00	ug/L		3/8/2017 16:59



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave

• • • •	Sample Identifier:	T-736 Trip Bla	nk				
Chloroethane	Lab Sample ID:	170791-05			Date Sampled:	3/2/2017	
Chloroform	Matrix:	Water			Date Received:	3/3/2017	
Chloromethane	Chloroethane		< 2.00	ug/L		3/8/2017	16:5
cis-1,2-Dichloroethene < 2.00	Chloroform		< 2.00	ug/L		3/8/2017	16:5
cis-1,3-Dichloropropene < 2.00	Chloromethane		< 2.00	ug/L		3/8/2017	16:5
Cyclohexane	cis-1,2-Dichloroethene		< 2.00	ug/L		3/8/2017	16:5
Dibromochloromethane < 2.00	cis-1,3-Dichloropropene		< 2.00	ug/L		3/8/2017	16:5
Dichlorodifluoromethane	Cyclohexane		< 10.0	ug/L		3/8/2017	16:5
Ethylbenzene < 2.00	Dibromochloromethane		< 2.00	ug/L		3/8/2017	16:5
Freon 113 < 2.00	Dichlorodifluoromethane	9	< 2.00 WJ	ug/L		3/8/2017	16:5
Isopropylbenzene	Ethylbenzene		< 2.00	ug/L		3/8/2017	16:5
m,p-Xylene < 2.00	Freon 113		< 2.00	ug/L		3/8/2017	16:5
Methyl acetate < 2.00	Isopropylbenzene		< 2.00	ug/L		3/8/2017	16:5
Methyl tert-butyl Ether < 2.00	m,p-Xylene		< 2.00	ug/L		3/8/2017	16:5
Methylcyclohexane < 2.00	Methyl acetate		< 2.00	ug/L		3/8/2017	16:5
Methylene chloride < 5.00	Methyl tert-butyl Ether		< 2.00	ug/L		3/8/2017	16:5
o-Xylene < 2.00	Methylcyclohexane		< 2.00	ug/L		3/8/2017	16:5
Styrene <5.00	Methylene chloride		< 5.00	ug/L		3/8/2017	16:5
Tetrachloroethene < 2.00	o-Xylene		< 2.00	ug/L		3/8/2017	16:5
Toluene < 2.00	Styrene		< 5.00	ug/L		3/8/2017	16:5
trans-1,2-Dichloroethene < 2.00	Tetrachloroethene		< 2.00	ug/L		3/8/2017	16:5
trans-1,3-Dichloropropene < 2.00	Toluene		< 2.00	ug/L		3/8/2017	16:5
Trichloroethene < 2.00	trans-1,2-Dichloroethene)	< 2.00	ug/L		3/8/2017	16:5
Trichlorofluoromethane <2.00 ug/L 3/8/2017 16:5	trans-1,3-Dichloroproper	ne	< 2.00	ug/L		3/8/2017	16:5
	Trichloroethene		< 2.00	ug/L		3/8/2017	16:5
Vinyl chloride < 2.00 ug/L 3/8/2017 16:5	Trichlorofluoromethane		< 2.00	ug/L		3/8/2017	16:5
	Vinyl chloride		< 2.00	ug/L		3/8/2017	16:5

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

WED S/14/17



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave

Sample Identifier:

T-736 Trip Blank

Lab Sample ID:

170791-05

Date Sampled:

3/2/2017

Matrix:

Water

Date Received: 3/3/2017

Percent Recovery	Limits	Outliers	Date Anal	yzed
107	81.2 - 120		3/8/2017	16:59
86.1	82.4 - 112		3/8/2017	16:59
97.6	90.2 - 112		3/8/2017	16:59
94.2	89.9 - 109		3/8/2017	16:59
	107 86.1 97.6	107 81.2 - 120 86.1 82.4 - 112 97.6 90.2 - 112	107 81.2 - 120 86.1 82.4 - 112 97.6 90.2 - 112	107 81.2 - 120 3/8/2017 86.1 82.4 - 112 3/8/2017 97.6 90.2 - 112 3/8/2017

Method Reference(s):

EPA 8260C **EPA 5030C**

Data File:

x39898.D

Appendix B

Laboratory QC Documentation Method Path : C:\msdchem\1\METHODS\

Method File: 170301.M

Title : 8260/624 Analysis Last Update : Wed Mar 01 15:09:13 2017 Response Via : Initial Calibration

Calibration Files

1	=2	39602.D 2 =x3960	03.D	3 =x3	39604.I	4	=x3960	05.D 5	5 =x:	39606.I	0 6 =:	x39607.D	7	=x3
		Compound		1	2	3	4	5	6	7	Avg	%RSD		
٦١	I	Elvanahanana				TOM								
	P	Fluorobenzene Dichlorodifluo	0 170	0 241	0 246	1911	0 220	A 310	0 210	0 220	11.60			
	P	Chloromethane												
4)	P	Vinul ablasida	0.272	0.321	0.324	0.327	0.357	0.310	0.31/	0.344	9.45			
	P	Vinyl chloride Bromomethane	0.211	0.203	0.2/3	0.251	0.205	0.204	0.205	0.203	24.32	3 -		
	P	Chloroethane	0.215	0.150	0.1/0	0.157	0.120	0.113	0 000	0.100	16.16	***		
	P	Trichlorofluor	0.125	0.150	0.134	0.123	0.120	0.122	0.090	0.134	11.43			
8)	r	Ethyl ether								0.184				
9)	D	Freon 113								0.184				
10)		1,1-Dichloroet	0.149	0.189	0.200	0.214	0.194	0.180	0.1//	0.100	10.03			
11)		Acetone												
12)	E.	Isopropyl Alcohol	0.202	0.113	0.033	0.009	0.075	0.074	0.000	0.112	6.56	- /, ·		
13)	D	Carbon disulfide												
14)		Methyl acetate	0.421	0.323	0.000	0.000	0.030	0.000	0.555	0.579	13.22			
15)		Methylene chlo	0.755	0.175	0.101	0.173	0.100	0.159	0.100	0.700	5.29 5.18			
16)	£	Acrylonitrile												
17)		tert-Butyl Alc	0.004	0.088	0.037	0.091	0.088	0.083	0.08/	0.084	14.28			
18)	73	Methyl tert-bu												
19)														
20)		trans-1,2-Dich												
21)	F	1,1-Dichloroet												
22)		Vinyl acetate												
	75	2,2-Dichloropr												
23)		2-Butanone		0.034	0.041	0.042	0.041	0.039	0.041	0.0397	7.83			
24)	P	cis-1,2-Dichlo	0.275	0.311	0.324	0.335	0.322	0.315	0.307	0.313	6.12			
25)	75	Bromochloromet	0.117	0.143	0.151	0.151	0.149	0.148	0.145	0.143	8.47			
26)		Chloroform												
27)	S	Pentafluoroben										•		
28)	_	Tetrahydrofuran												
29)		1,1,1-Trichlor												
30)		Cyclohexane	0.306	0.417	0.464	0.539	0.482	0.421	0.459	0.441	16.36			
31)	S	1,2-Dichloroet												
32)		Carbon Tetrach												
33)		Benzene	1.039	1.191	1.217	1.241	1.167	1.120	1.086	1.152	6.35			
	P ·													
35)	₽	Trichloroethene										**		
36)		tert-Butyl Ace								0.120		>}~		
37)	P	Methylcyclohexane	0.268	0.447								0	1	2
38)		1,4-Dioxane			0.003	0.004	0.005	0.004	0.005	0.004) 14.33	y<	F	
									`			•		,

170301.M Wed Mar 01 15:09:40 2017 73VOAV2

of curve is not any of response factors

Page: 1

3/1/17/13/3

A TOP TO A STORY OF THE

96

Data File: C:\msdchem\1\DATA\170308\x39886.D

DataAcq Meth:8260RUN.M

Acq On : 8 Mar 2017 11:23 am Operator: Bill Brew
Sample : 50ppb mega CC Inst : Instrument #1

Misc :

ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 08 11:38:31 2017

Quant Method: C:\msdchem\1\METHODS\170301.M

Quant Title : 8260/624 Analysis QLast Update : Wed Mar 01 15:09:13 2017

Response via : Initial Calibration

Integrator: RTE

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev: 20% Max. Rel. Area: 200%

PI	ax. F	CRF DEV : 20% Max. Rel. A			Don Ima	no Domini	3,
_		Compound	AvgRF	CCRF	TUEV ALE	ea% Dev(min)	
1	I	Fluorobenzene	1.000	1.000	0.0	91 0.00	070
2	P	Dichlorodifluoromethane	0.229	0.183	(20.1#)	64 0.00	~
3	P	Chloromethane	0.314	0.266	15.3	74 0.00	-
4		Vinyl chloride	0.263	0.227	13.7	71 0.00	
5	P	Bromomethane	0.165	0.128	(22.4#)	74 0.00	
6	P	Chloroethane	0.134	0.125	6.7	74 0.00	
7	P	Trichlorofluoromethane	0.319	0.321	-0.6	80 0.00	
8		Ethyl ether	0.184	0.157	14.7	74 0.00	
9	P	Freon 113	0.186	0.185	0,5	79 0.00	
10		1,1-Dichloroethene	0.306	0.287	6-2	75 0.00	
11		Acetone	0.113	0.087#	(23.0#)	89 0.00	
12		Isopropyl Alcohol	0.016	0.015	6.3	85 0.00	
13	р	Carbon disulfide	0.579	0.538	7.1	73 0.00	
14		Methyl acetate	0.168	0.154	8.3	80 0.00	
15		Methylene chloride	0.245	0.215	12.2	78 0.00	
16		Acrylonitrile	0.084	0.080	4.8	80 0.00	
17		tert-Butyl Alcohol	0.028	0.031	-10.7	95 0.00	
18	P	Methyl tert-butyl Ether	0.627	0.609	2.9	83 0.00	
19		trans-1,2-Dichloroethene	0.307	0.281	8.5	77 0.00	
20		1,1-Dichloroethane	0.496	0.479	3.4	83 0.00	
21		Vinyl acetate	0.499	0.490	1.8	82 0.00	
22		2,2-Dichloropropane	0.349	0.382	-9.5	87 0.00	
23	P	2-Butanone	0.039	0.045#	-15.4	97 0.00	
24		cis-1,2-Dichloroethene	0.313	0.307	1.9	83 0.00	
25		Bromochloromethane	0.143	0.144	-0.7	87 0.00	
26	P	Chloroform	0.495	0.495	0.0	85 0.00	
27	S	Pentafluorobenzene	0.546	0.551	-0.9	90 0.00	
28		Tetrahydrofuran	0.082	0.086	-4.9	88 0.00	
29	P	1,1,1-Trichloroethane	0.383	0.403	-5.2	85 0.00	
30	P	Cyclohexane	0.441	0.439	0.5	74 0.00	
31	S	1,2-Dichloroethane-d4	0.259	0.269	-3.9	94 0.00	
32	P	Carbon Tetrachloride	0.322	0.352	-9.3	84 0.00	
33	₽	Benzene	1.152	1.142	0.9	83 0.00	
34	P	1,2-Dichloroethane	0.369	0.361	2.2	85 0.00	
35	P	Trichloroethene	0.287	0.292	-1.7	84 0.00	
36		tert-Butyl Acetate	0.120	0.134	-11.7 1	0.00	
37	P	Methylcyclohexane	0.468	0.501	<u>-7.1</u>	81 0.00	
38		1,4-Dioxane	0.004	0.005	(25.0#)	96 0.00	
39	UN	Ethyl acetate	0.000	0.000	0.0	0.00	
40	P	1,2-Dichloropropane	0.294	0.288	2.0	83 0.00	
41	UN	Isobutyl alcohol	0.000	0.000	0.0	0.00	
42		Dibromomethane	0.179	0.179		85 0.00	
43	P	Bromodichloromethane	0.353	0.356		84 0.00	
44		2-Chloroethyl vinyl Ether	0.168	0.146		73 0.00	
45	UN	Isopropyl acetate	0.000	0.000	0.0	0# 0.00	
46		1,1-Dichloropropene	0.372	0.377		82 0.00	
47	P	cis-1,3-Dichloropropene	0.440	0.466	-5.9	85 0.00	

0770 %

Appendix C

Validator Qualifications

KENNETH R. APPLIN Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

3130 Monroe Ave. Rochester, NY **NYSDEC BCP # C 828109**

SDG: 184515

4 Water Samples

Prepared for:

Ravi Engineering & Land Surveying, P.C. 2110 South Clinton Avenue, Suite 1 Rochester, NY 14618

January 2019



REVIEWER'S NARRATIVE SDG 184515

The data associated with this Sample Delivery Group (SDG) 184515, analyzed by Paradigm Environmental Services, Inc. Rochester, NY have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Muchael K. Perry
Chemist Date: 1/17/19

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REVI	EWER'S NARRATIVE						
1.0	SUMMARY						
2.0	INTRODUCTION						
3.0	SAMPLE AND ANALYSIS SUMMARY						
4.0	GUIDANCE DOCUMI	ENTS AND DATA REVIEW CRITERIA		2			
5.0	DATA VALIDATION QUALIFIERS						
6.0	RESULTS OF THE DA	TA REVIEW	4				
7.0	TOTAL USABLE DAT	A		4			
APPE APPE APPE							
Tabl	les						

Table 4-1 Data Validation Guidance Documents
 Table 4-2 Quality Control Criteria for Validating Laboratory Analytical Data

Summaries of Validated Results

Table 6-1 VOCs

1.0 SUMMARY

SITE:

3130 Monroe Ave.

Rochester, NY

SAMPLING DATE:

October 01, 2018

SAMPLE TYPE:

4 water samples

LABORATORY:

Paradigm Environmental Services, Inc.

Rochester, NY

SDG No.:

184515

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for, four water samples collected on October 01, 2018. These samples were analyzed for TCL volatile organic compounds.

All laboratory analyses were performed by Paradigm Environmental Services, Inc., Rochester, NY and analyzed as SDG 184515. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1 DATA VALIDATION GUIDANCE DOCUMENTS

Analyte Type	Validation Guidance				
	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2.				
VOCs					
	USEPA, 2008, Statement of Work for Organic Analysis of				
	Low/Medium Concentration of Volatile Organic				
	Compounds SOM01.2; SOP HW-33, Rev. 2.				
	USEPA, 2007, Statement of Work for Organic Analysis of				
SVOCs	Low/Medium Concentration of Semivolatile Organic				
	Compounds SOM01.2; SOP HW-35, Rev. 1.				
	USEPA, 2006, CLP Organics Data Review and Preliminary				
Pesticides/PCBs	Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14,				
	Part C.				
	USEPA, 2006, Validation of Metals for the Contract Laboratory				
Metals	Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13),				
	SOP # HW-2, Rev. 13.				
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)				
VOCs	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis				
(Ambient air)	of Ambient Air in Canister by Method TO-15; SOP # HW-31,				
(Aminicia air)	Rev. 4.				

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING
LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	Method TO-15
Completeness of Pkg Sample Condition Holding Time System Monitoring Compounds Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Surrogate Recoveries Matrix Spikes Blanks Instrument Calibration & Verification Analyte ID Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Condition Holding Time Initial/Continuing Calibration CRDL Standards Blanks Interference Check Sample Spike Recoveries Lab Duplicate Lab Control Sample ICP Serial Dilutions Lab Qualifiers Field-Duplicate	Completeness of Pkg Sample Condition Holding Times Calibration Lab Control Samples Blanks Spike Recoveries Lab Duplicates	Completeness of Pkg Sample Condition Holding Time Canister Certification Lab Control Sample Instrument Tuning Blanks Initial Calibration & System Performance Daily Calibration Field Duplicate

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

- U The analyte was analyzed for but was not detected at or above the sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
- JN The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1. The table list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 184515, four samples were analyzed and results were reported for 212 analytes. All results (100 %) are considered usable. See the summary table for the analyses that have been rejected or flagged and the associated QC reasons.

SDG 184515

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none		none		

ACRONYMS

BSP

Blank Spike

CCAL

Continuing Calibration

CCB

Continuing Calibration Blank

CCV

Continuing Calibration Verification

CRDL

Contract Required Detection Limit

CRQL

Contract Required Quantitation Limit

%D

Percent Difference

ICAL

Initial Calibration

ICB

Initial Calibration Blank

IS

Internal Standard

LCS

Laboratory Control Sample

MS/MSD

Matrix Spike/Matrix Spike Duplicate

QA

Quality Assurance

QC

Quality Control

%R

Percent recovery

RPD

Relative Percent Difference

RRF

Relative Response Factor

%RSD

Percent Relative Standard Deviation

TAL

Target Analyte List (metals)

TCL

Target Compound List (organics)

Appendix A

Validated Analytical Results

LAB PROJECT NARRATIVE: 184515 PROJECT NAME: 3130 Monroe Ave 45-17-008

SDG: 4515-01

CLIENT: Ravi Engineering & Land Surveying, P.C.

Four Groundwater samples were collected by the client on October 1, 2018 and received at the Paradigm laboratory on October 2, 2018. Container and holding times were acceptable at time of receipt; the samples were received at 13° Centigrade and were on ice. The samples were submitted with the Chain-of-Custody requesting the TCL list for VOCs. All analyses were performed using EPA SW-846 methods and associated holding times.

The items noted in this case narrative address compliance with the referenced methods, NYSDOH ELAP rules, and any project specific data quality requirements. These may be different from the usability criteria referenced in any "Functional Guidelines" or other data review standards used by data validators.

GENERAL NOTES

ALL ANALYSES

The initial and continuing calibration reports are only evaluated for compounds that are on the sample summary report.

Regarding results on QC summary forms versus included raw data, due to calculations made at the instrument where many significant figures may be used, there may be slight discrepancies between the summary report result and that recorded on the raw data. This does not affect data usability.

VOLATILES and SEMIVOLATILES

Regarding initial calibrations, it should be noted that the Quantitation Report concentrations supplied for the initial calibration reflect the calibration prior to updating. The response factors and areas are correct.

Regarding Quantitation Reports, it should be noted that the "#" symbol that appears on some of the Quantitation Reports is a software artifact and should be disregarded.

VOLATILES

Holding times were met for all samples

The surrogate recoveries for the samples and the associated QC were within acceptance limits.

Site specific QC was not requested on this SDG. The Laboratory Control Sample recovered within acceptance limits.

The Method Blank was free from contamination within the reportable ranges.

The instrument tune passed all criteria and samples were within a 12-hour window.

The internal standards areas and retention times were within acceptance limits for the samples and the associated QC.

All data for the initial calibration was within acceptance limits. Compounds flagged with an "*" on the summary table have been calibrated using a non-average Response Factor calibration curve. The supporting curves are located after the initial calibration table.

All continuing calibration data was within acceptance limits.

(signed)

Bruce Hoogesteger President

(date) 10/18/2018

BATCH LOG

Lab Name:

Lab Project #:

Client Name:

Paradigm Environmental Services
184515
Ravi Engineering & Land Surveying, P.C.
3130 Monroe Ave 45-17-008
N/A
4515-01

Client Project Name: Client Project #:

SDG No.:

Protocol:

SW846

Report Due Date:

10/9/2018

Batch Due Date:

11/1/2018

LAB SAMPLE NO.	MATRIX	CLIENT SAMPLE	D	REQUESTED ANALYSIS	DATE SAMPLED	DATE REC'D
184515-01	Groundwater	HLA-MW-2-2018		TCL VOCs	10/1/2018	10/2/2018
184515-02	Groundwater	MW-2-2018		TCL VOCs	10/1/2018	10/2/2018
184515-03	Groundwater	MW-3-2018	ľ	TCL VOCs	10/1/2018	10/2/2018
184515-04	Groundwater	MW-4-2018		TCL VOCs	10/1/2018	10/2/2018
			!			
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CHAIN OF CUSTODY

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		<u> </u>														See addi	tional pa	age for	r samp	le con	ditions.	•



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave 45-17-008

Sample Identifier:

MW-4-2018

Lab Sample ID:

184515-04

Matrix:

Groundwater

Date Sampled:

10/1/2018

Date Received: 10/2/2018

Volatile Organics

<u> Analyte</u>	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/4/2018 16:55
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/4/2018 16:55
1,1,2-Trichloroethane	< 2.00	ug/L		10/4/2018 16:55
1,1-Dichloroethane	< 2.00	ug/L		10/4/2018 16:55
1,1-Dichloroethene	< 2.00	ug/L		10/4/2018 16:55
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/4/2018 16:55
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/4/2018 16:55
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/4/2018 16:55
1,2-Dibromoethane	< 2.00	ug/L		10/4/2018 16:55
1,2-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:55
1,2-Dichloroethane	< 2.00	ug/L		10/4/2018 16:55
1,2-Dichloropropane	< 2.00	ug/L		10/4/2018 16:55
1,3-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:55
1,4-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:55
1,4-Dioxane	< 20.0	ug/L		10/4/2018 16:55
2-Butanone	< 10.0	ug/L		10/4/2018 16:55
2-Hexanone	< 5.00	ug/L		10/4/2018 16:55
4-Methyl-2-pentanone	< 5.00	ug/L		10/4/2018 16:55
Acetone	< 10.0	ug/L		10/4/2018 16:55
Benzene	< 1.00	ug/L		10/4/2018 16:55
Bromochloromethane	< 5.00	ug/L		10/4/2018 16:55
Bromodichloromethane	< 2.00	ug/L		10/4/2018 16:55
Bromoform	< 5.00	ug/L		10/4/2018 16:55
Bromomethane	< 2.00	ug/L		10/4/2018 16:55
Carbon disulfide	< 2.00	ug/L		10/4/2018 16:55
Carbon Tetrachloride	< 2.00	ug/L		10/4/2018 16:55
Chlorobenzene	< 2.00	ug/L		10/4/2018 16:55



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave 45-17-008

Sample Identifier:	MW-4-2018						
Lab Sample ID:	184515-04			Da	ate Sampled:	10/1/2018	
Matrix:	Groundwate	r		Da	ate Received:	10/2/2018	
Chloroethane		< 2.0	0 ug/	L		10/4/2018	16:55
Chloroform		< 2.0	0 ug/	L		10/4/2018	16:55
Chloromethane	, .	< 2.0	0 ug/	L		10/4/2018	16:55
cis-1,2-Dichloroethene		< 2.0	0 ug/	L		10/4/2018	16:55
cis-1,3-Dichloropropen	e	< 2.0	0 ug/	L		10/4/2018	16:55
Cyclohexane		< 10.	0 ug/	L		10/4/2018	16:55
Dibromochloromethane	·	< 2.0	0 ug/	L		10/4/2018	16:55
Dichlorodifluoromethar	ıe	< 2.0	0 ug/	L		10/4/2018	16:55
Ethylbenzene	- 1	< 2.0	0 ug/	L		10/4/2018	16:55
Freon 113		< 2.0	0 ug/	L		10/4/2018	16:55
Isopropylbenzene		< 2.0	0 ug/	L		10/4/2018	16:55
m,p-Xylene		< 2.0	0 ug/	L		10/4/2018	16:55
Methyl acetate		< 2.0	0 ug/	L		10/4/2018	16:55
Methyl tert-butyl Ether		< 2.0	0 ug/	L		10/4/2018	16:55
Methylcyclohexane		< 2.0	0 ug/	L		10/4/2018	16:55
Methylene chloride		< 5.0	0 ug/	L		10/4/2018	16:55
o-Xylene		< 2.0	0 ug/	L		10/4/2018	16:55
Styrene		< 5.0	0 ug/	L		10/4/2018	16:55
Tetrachloroethene	:	< 2.0	0 ug/	L		10/4/2018	16:55
Toluene	:	< 2.0	0 ug/	L		10/4/2018	16:55
trans-1,2-Dichloroether	ie	< 2.0	0 ug/	L		10/4/2018	16:55
trans-1,3-Dichloroprope	ene	< 2.0	0 ug/	L		10/4/2018	16:55
Trichloroethene	:	< 2.0	0 ug/	L		10/4/2018	16:55
Trichlorofluoromethan	e	< 2.0	0 ug/	Ĺ		10/4/2018	16:55
Vinyl chloride		< 2.0	0 ug/	L		10/4/2018	16:55



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave 45-17-008

Sample Identifier:

MW-4-2018

Lab Sample ID:

184515-04

7717-04

Date Sampled:

10/1/2018

Matrix:

Groundwater

Date Received:

10/2/2018

	L					
Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed		
1,2-Dichloroethane-d4	102	80.7 - 121		10/4/2018	16:55	
4-Bromofluorobenzene	92.0	74.3 - 121		10/4/2018	16:55	
Pentafluorobenzene	93.6	86.2 - 111		10/4/2018	16:55	
Toluene-D8	94.5	86.2 - 112		10/4/2018	16:55	

Method Reference(s):

EPA 8260C

EPA 5030C

Data File:

x54776.D



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave 45-17-008

Sample Identifier:

MW-3-2018

Lab Sample ID:

184515-03

Matrix:

Groundwater

Date Sampled:

10/1/2018

Date Received: 10/2/2018

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/4/2018 16:32
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/4/2018 16:32
1,1,2-Trichloroethane	< 2.00	ug/L		10/4/2018 16:32
1,1-Dichloroethane	< 2.00	ug/L		10/4/2018 16:32
1,1-Dichloroethene	< 2.00	ug/L		10/4/2018 16:32
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/4/2018 16:32
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/4/2018 16:32
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/4/2018 16:32
1,2-Dibromoethane	< 2.00	ug/L		10/4/2018 16:32
1,2-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:32
1,2-Dichloroethane	< 2.00	ug/L		10/4/2018 16:32
1,2-Dichloropropane	< 2.00	ug/L		10/4/2018 16:32
1,3-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:32
1,4-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:32
1,4-Dioxane	< 20.0	ug/L		10/4/2018 16:32
2-Butanone	< 10.0	ug/L		10/4/2018 16:32
2-Hexanone	< 5.00	ug/L		10/4/2018 16:32
4-Methyl-2-pentanone	< 5.00	ug/L		10/4/2018 16:32
Acetone	< 10.0	ug/L		10/4/2018 16:32
Benzene	< 1.00	ug/L		10/4/2018 16:32
Bromochloromethane	< 5.00	ug/L		10/4/2018 16:32
Bromodichloromethane	< 2.00	ug/L		10/4/2018 16:32
Bromoform	< 5.00	ug/L		10/4/2018 16:32
Bromomethane	< 2.00	ug/L		10/4/2018 16:32
Carbon disulfide	< 2.00	ug/L		10/4/2018 16:32
Carbon Tetrachloride	< 2.00	ug/L		10/4/2018 16:32
Chlorobenzene	< 2.00	ug/L		10/4/2018 16:32

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, October 8, 2018



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave 45-17-008

Sample Identifier:	MW-3-2018					
Lab Sample ID:	184515-03			Date Sampled:	10/1/2018	
Matrix:	Groundwater			Date Received:	10/2/2018	
Chloroethane		< 2.00	ug/L		10/4/2018	16:32
Chloroform	:	< 2.00	ug/L		10/4/2018	16:32
Chloromethane		< 2.00	ug/L		10/4/2018	16:32
cis-1,2-Dichloroethene		1.19	ug/L	j	10/4/2018	16:32
cis-1,3-Dichloroproper	ne	< 2.00	ug/L		10/4/2018	16:32
Cyclohexane	į	< 10.0	ug/L		10/4/2018	16:32
Dibromochloromethan	ie	< 2.00	ug/L		10/4/2018	16:32
Dichlorodifluorometha	ine	< 2.00	ug/L		10/4/2018	16:32
Ethylbenzene		< 2.00	ug/L		10/4/2018	16:32
Freon 113		< 2.00	ug/L		10/4/2018	16:32
Isopropylbenzene		< 2.00	ug/L		10/4/2018	16:32
m,p-Xylene		< 2.00	ug/L		10/4/2018	16:32
Methyl acetate	:	< 2.00	ug/L		10/4/2018	16:32
Methyl tert-butyl Ether	r	< 2.00	ug/L		10/4/2018	16:32
Methylcyclohexane		< 2.00	ug/L		10/4/2018	16:32
Methylene chloride		< 5.00	ug/L		10/4/2018	16:32
o-Xylene	:	< 2.00	ug/L		10/4/2018	16:32
Styrene		< 5.00	ug/L		10/4/2018	16:32
Tetrachloroethene		< 2.00	ug/L		10/4/2018	16:32
Toluene		< 2.00	ug/L		10/4/2018	16:32
trans-1,2-Dichloroethe	ene	< 2.00	ug/L		10/4/2018	16:32
trans-1,3-Dichloroprop	pene	< 2.00	ug/L		10/4/2018	16:32
Trichloroethene		< 2.00	ug/L		10/4/2018	16:32
Trichlorofluorometha	ne	< 2.00	ug/L		10/4/2018	16:32
Vinyl chloride		< 2.00	ug/L		10/4/2018	16:32



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave 45-17-008

Sample Identifier:

MW-3-2018

Lab Sample ID:

184515-03

Groundwater

Date Sampled:

10/1/2018

Matrix:

Date Received: 10/2/2018

Surrogate	Percent Recovery	Limits	Outliers	Date Anal	vzed
1,2-Dichloroethane-d4	102	80.7 - 121		10/4/2018	16:32
4-Bromofluorobenzene	98.2	74.3 - 121		10/4/2018	16:32
Pentafluorobenzene	94.6	86.2 - 111		10/4/2018	16:32
Toluene-D8	95.3	86.2 - 112		10/4/2018	16:32

Method Reference(s):

EPA 8260C

EPA 5030C

Data File:

x54775.D



Client:

Ravi Engineering & Land Surveying. P.C.

Project Reference:

3130 Monroe Ave 45-17-008

Sample Identifier:

MW-2-2018

Lab Sample ID:

184515-02

Groundwater

Date Sampled: 10/2

10/1/2018

Date Received: 10/2/2018

Volatile Organics

Matrix:

Analyte	Result	<u>Units</u>	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/4/2018 16:08
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/4/2018 16:08
1,1,2-Trichloroethane	< 2.00	ug/L		10/4/2018 16:08
1,1-Dichloroethane	< 2.00	ug/L		10/4/2018 16:08
1,1-Dichloroethene	< 2.00	ug/L		10/4/2018 16:08
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/4/2018 16:08
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/4/2018 16:08
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/4/2018 16:08
1,2-Dibromoethane	< 2.00	ug/L		10/4/2018 16:08
1,2-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:08
1,2-Dichloroethane	< 2.00	ug/L		10/4/2018 16:08
1,2-Dichloropropane	< 2.00	ug/L		10/4/2018 16:08
1,3-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:08
1,4-Dichlorobenzene	< 2.00	ug/L		10/4/2018 16:08
1,4-Dioxane	< 20.0	ug/L		10/4/2018 16:08
2-Butanone	< 10.0	ug/L		10/4/2018 16:08
2-Hexanone	< 5.00	ug/L		10/4/2018 16:08
4-Methyl-2-pentanone	< 5.00	ug/L		10/4/2018 16:08
Acetone	7.98	ug/L	J	10/4/2018 16:08
Benzene	< 1.00	ug/L		10/4/2018 16:08
Bromochloromethane	< 5.00	ug/L		10/4/2018 16:08
Bromodichloromethane	< 2.00	ug/L		10/4/2018 16:08
Bromoform	< 5.00	ug/L		10/4/2018 16:08
Bromomethane	< 2.00	ug/L		10/4/2018 16:08
Carbon disulfide	< 2.00	ug/L		10/4/2018 16:08
Carbon Tetrachloride	< 2.00	ug/L		10/4/2018 16:08
Chlorobenzene	< 2.00	ug/L		10/4/2018 16:08

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, October 8, 2018



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave 45-17-008

Sample Identifier:	MW-2-2018					
Lab Sample ID:	184515-02			Date Sampled:	10/1/2018	
Matrix:	Groundwater			Date Received:	10/2/2018	
Chloroethane		< 2.00	ug/L		10/4/2018	16:08
Chloroform		< 2.00	ug/L		10/4/2018	16:08
Chloromethane		< 2.00	ug/L		10/4/2018	16:08
cis-1,2-Dichloroethene		< 2.00	ug/L		10/4/2018	16:08
cis-1,3-Dichloropropen	2	< 2.00	ug/L		10/4/2018	16:08
Cyclohexane		< 10.0	ug/L		10/4/2018	16:08
Dibromochloromethane	2	< 2.00	ug/L		10/4/2018	16:08
Dichlorodifluoromethar	ne ·	< 2.00	ug/L		10/4/2018	16:08
Ethylbenzene		< 2.00	ug/L		10/4/2018	16:08
Freon 113		< 2.00	ug/L		10/4/2018	16:08
Isopropylbenzene		< 2.00	ug/L		10/4/2018	16:08
m,p-Xylene		< 2.00	ug/L		10/4/2018	16:08
Methyl acetate		< 2.00	ug/L		10/4/2018	16:08
Methyl tert-butyl Ether		< 2.00	ug/L		10/4/2018	16:08
Methylcyclohexane		< 2.00	ug/L		10/4/2018	16:08
Methylene chloride		< 5.00	ug/L		10/4/2018	16:08
o-Xylene		< 2.00	ug/L		10/4/2018	16:08
Styrene		< 5.00	ug/L		10/4/2018	16:08
Tetrachloroethene	:	< 2.00	ug/L		10/4/2018	16:08
Toluene		< 2.00	ug/L		10/4/2018	16:08
trans-1,2-Dichloroether	ie :	< 2.00	ug/L		10/4/2018	16:08
trans-1,3-Dichloroprop	ene	< 2.00	ug/L		10/4/2018	16:08
Trichloroethene		< 2.00	ug/L		10/4/2018	16:08
Trichlorofluoromethan	e	< 2.00	ug/L		10/4/2018	16:08
Vinyl chloride		< 2.00	ug/L		10/4/2018	16:08



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave 45-17-008

Sample Identifier:

MW-2-2018

Lab Sample ID:

184515-02

Date Sampled:

10/1/2018

Matrix:

Groundwater

Date Received: 10/2/2018

Surrogate	Percent Recovery	Limits	Outliers	Date Anal	zed
1,2-Dichloroethane-d4	101	80.7 - 121		10/4/2018	16:08
4-Bromofluorobenzene	99.4	74.3 - 121		10/4/2018	16:08
Pentafluorobenzene	95.6	86.2 - 111		10/4/2018	16:08
Toluene-D8	96.5	86.2 - 112		10/4/2018	16:08

Method Reference(s):

EPA 8260C

EPA 5030C

Data File:

x54774.D



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave 45-17-008

Sample Identifier:

HLA-MW-2-2018

Lab Sample ID:

184515-01

Matrix:

Groundwater

Date Sampled: 10/1/2018

Date Received: 10/2/2018

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/4/2018 15:45
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/4/2018 15:45
1,1,2-Trichloroethane	< 2.00	ug/L		10/4/2018 15:45
1,1-Dichloroethane	< 2.00	ug/L		10/4/2018 15:45
1,1-Dichloroethene	< 2.00	ug/L		10/4/2018 15:45
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/4/2018 15:45
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/4/2018 15:45
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/4/2018 15:45
1,2-Dibromoethane	< 2.00	ug/L		10/4/2018 15:45
1,2-Dichlorobenzene	< 2.00	ug/L		10/4/2018 15:45
1,2-Dichloroethane	< 2.00	ug/L		10/4/2018 15:45
1,2-Dichloropropane	< 2.00	ug/L		10/4/2018 15:45
1,3-Dichlorobenzene	< 2.00	ug/L		10/4/2018 15:45
1,4-Dichlorobenzene	< 2.00	ug/L		10/4/2018 15:45
1,4-Dioxane	< 20.0	ug/L		10/4/2018 15:45
2-Butanone	< 10.0	ug/L		10/4/2018 15:45
2-Hexanone	< 5.00	ug/L		10/4/2018 15:45
4-Methyl-2-pentanone	< 5.00	ug/L		10/4/2018 15:45
Acetone	< 10.0	ug/L		10/4/2018 15:45
Benzene	< 1.00	ug/L		10/4/2018 15:45
Bromochloromethane	< 5.00	ug/L		10/4/2018 15:45
Bromodichloromethane	< 2.00	ug/L		10/4/2018 15:45
Bromoform	< 5.00	ug/L		10/4/2018 15:45
Bromomethane	< 2.00	ug/L		10/4/2018 15:45
Carbon disulfide	< 2.00	ug/L		10/4/2018 15:45
Carbon Tetrachloride	< 2.00	ug/L		10/4/2018 15:45
Chlorobenzene	< 2.00	ug/L		10/4/2018 15:45



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave 45-17-008

rroject keierence:	2120 Monioe was 42-	-17-000				
Sample Identifier:	HLA-MW-2-2018		**			
Lab Sample ID:	184515-01			Date Sampled:	10/1/2018	
Matrix:	Groundwater			Date Received:	10/2/2018	
Chloroethane	< 2.0	0 u	g/L		10/4/2018	15:45
Chloroform	< 2.0	0 u	g/L		10/4/2018	15:45
Chloromethane	< 2.0	0 u	g/L		10/4/2018	15:45
cis-1,2-Dichloroethene	< 2.0	0 u	g/L		10/4/2018	15:45
cis-1,3-Dichloropropene	e < 2.0	0 u	g/L		10/4/2018	15:45
Cyclohexane	< 10.	.0 u	g/L		10/4/2018	15:45
Dibromochloromethane	e < 2.0	0 u	g/L		10/4/2018	15:45
Dichlorodifluoromethar	ne < 2.0	0 u	g/L		10/4/2018	15:45
Ethylbenzene	< 2.0	0 u	g/L		10/4/2018	15:45
Freon 113	< 2.0	0 u	g/L		10/4/2018	15:45
Isopropylbenzene	< 2.0	0 u	g/L		10/4/2018	15:45
m,p-Xylene	< 2.0	0 u	g/L		10/4/2018	15:45
Methyl acetate	< 2.0	0 u	g/L		10/4/2018	15:45
Methyl tert-butyl Ether	< 2.0	0 u	g/L		10/4/2018	15:45
Methylcyclohexane	< 2.0	0 u	g/L		10/4/2018	15:45
Methylene chloride	< 5.0	0 u	g/L		10/4/2018	15:45
o-Xylene	< 2.0	0 u	g/L		10/4/2018	15:45
Styrene	< 5.0	0 u	g/L		10/4/2018	15:45
Tetrachloroethene	< 2.0	0 u	g/L		10/4/2018	15:45
Toluene	< 2.0	0 u	g/L		10/4/2018	15:45
trans-1,2-Dichloroether	ne < 2.0	0 u	g/L		10/4/2018	15:45
trans-1,3-Dichloroprop	ene < 2.0	0 u	g/L		10/4/2018	15:45
Trichloroethene	< 2.0	0 u	g/L		10/4/2018	15:45
Trichlorofluoromethan	e < 2.0	0 u	g/L		10/4/2018	15:45
Vinyl chloride	< 2.0	0 u	g/L		10/4/2018	15:45
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This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client:

Ravi Engineering & Land Surveying, P.C.

Project Reference:

3130 Monroe Ave 45-17-008

Sample Identifier:

HLA-MW-2-2018

Lab Sample ID:

184515-01

Date Sampled:

10/1/2018

Matrix:

Groundwater

Date Received: 10/2/2018

· · · · · · · · · · · · · · · · · · ·					
Surrogate	Percent Recovery	Limits	Outliers	Date Anal	yzed
1,2-Dichloroethane-d4	104	80.7 - 121		10/4/2018	15:45
4-Bromofluorobenzene	101	74.3 - 121		10/4/2018	15:45
Pentafluorobenzene	95.3	86.2 - 111		10/4/2018	15:45
Toluene-D8	97.8	86.2 - 112		10/4/2018	15:45

Method Reference(s):

EPA 8260C

EPA 5030C

Data File:

x54773.D

Appendix B

Laboratory
QC

Documentation

All laboratory quality control data were within the established control limits. No analytical results were qualified.

Appendix C

Validator Qualifications

KENNETH R. APPLIN Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).



APPENDIX F Waste Disposal Documentation

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NOTICE Shippers of histardous materials must enter 24-hour emergency	Date 06 15	1 40	F101 - 6.1 - 11	70	
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The agreed or declared value of the property is hereby specifically stated. The carrier sha	ill not make delivery of this ship consignor this consignor shall s	rign the following s smant without on	mont of foolohs and	Check A	ppropriate Box:
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RECENTED, subjects to the obsenifications and lawfully filed tariffs in affect on the date of an obsenification of condition, of contents of packages unknown), merked, contigued, and destined as indicate or compression in destination of the property Under the contract) agrees to carry to its usual section in its meta-sky agreed as as a section carrier of all or any of, said property over all or the transport of the carrier of all or any of, said property over all or the terms and confedence in this is a real or a relievator should be subject to all the terms and confedence of the said bill of lading, set forth in the classification or tariff while the excepted for himself and his usagers. Arch with TRE If appropries to designate Halandays Majeriels are defined in the U.S. Description of	er classification or berill, if this is th governs the transportation of	pais spibulant du magaire mar or 190 pais spibulant du	ing jeek torth [1] in the shipmone. Shippon he d the said terms and	miorm Freight Classi Freby certifies that hi conditions are here!	ications in effect on F is femiliar with all by agreed to by the
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Appendix G

IC/EC Certification



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



Site No.	C828109	Site Details	Box 1	
ite Name	Speedy's Cleaners	tive measures work plan has been implemented at the before mentioned site. 2019, the site is in compliance. YES NO Re correct? It then above or on a separate sheet. Site property been sold, subdivided, merged, or undergone a uring this Reporting Period? Range of use at the site during this Reporting Period 1 (d))? Re, and/or local permits (e.g., building, discharge) been issued uring this Reporting Period? Re to questions 2 thru 4, include documentation or evidence has been previously submitted with this certification form. Reddering development? Box 2 YES NO Consistent with the use(s) listed below?		
Site Addres City/Town: County: Mo Site Acreag	nroe			
			e before mention	ned site.
			YES	NO
. Is the i	nformation above corre	ect?	×	11
If NO, i	nclude handwritten ab	ove or on a separate sheet.		
			The state of the s	×
	ere been any change o NYCRR 375-1.11(d))?	of use at the site during this Reporting Period	11	X
				×
5. Is the s	site currently undergoid	ng development?	G.	K
			Box 2	
			YES	NO
	current site use consis ercial and Industrial	tent with the use(s) listed below?	X	
7. Are all	ICs/ECs in place and	functioning as designed?	×	1.1
		EITHER QUESTION 6 OR 7 IS NO, sign and date ETE THE REST OF THIS FORM. Otherwise co		
A Correcti	ve Measures Work Pla	en must be submitted along with this form to a	ddress these is:	BU es .
Signature	of Owner Remedial Par	ty or Designated Representative	Date	

SITE NO. C828109 Box 3

Description of Institutional Controls

Parcel 150.120-1-6 <u>Owner</u>

3130 Monroe Avenue Associates LLC

Institutional Control

Ground Water Use Restriction
Soil Management Plan
Building Use Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

The elements of the institutional and engineering controls are listed below:

- 1) A site cover (consisting of the building and paved parking lot) currently exists and will be maintained to allow for commercial use of the site.
- 2) Imposition of an institutional control in the form of an environmental easement for the controlled property that:
- a) requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- b) allows the use and development of the controlled property for commercial and industrial uses as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- c) restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and
 - d) requires compliance with the Department approved Site Management Plan.
- 3) A Site Management Plan is required, which includes the following:
- A) An Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:

Institutional Controls: The environmental easement discussed above.

Engineering Controls: The sub-slab depressurization system, and the site cover system discussed above.

This plan includes, but may not be limited to:

- a) an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
- b) descriptions of the provisions of the environmental easement including any land use and groundwater use restrictions;
- c) a provision for evaluation of the potential for soil vapor intrusion for any new buildings developed on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
- d) a provision for the continued operation, maintenance, and monitoring of the existing sub-slab depressurization system at the on-site building;
 - e) provisions for the management and inspection of the identified engineering controls;
 - f) maintaining site access controls and Department notification; and
- g) the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.
- B) A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:
- a) monitoring of groundwater and indoor air to assess the performance and effectiveness of the remedy;
 - b) a schedule of monitoring and frequency of submittals to the Department; and
 - c) monitoring for soil vapor intrusion for any buildings occupied or developed on the site, as may be

		Box
B		
	ngineering Controls	
Parcel	Engineering Control	
150,120-1-6	Vapor Mitigation	
	Cover System	
		Во
Pariodic	c Review Report (PRR) Certification Statements	
	ng "YES" below that:	
1. I certify by checkin	ig TES below that	
	odic Review report and all attachments were prepared under the direction of, r, the party making the certification;	and
are in accord	est of my knowledge and belief, the work and conclusions described in this condance with the requirements of the site remedial program, and generally according and the information presented is accurate and compete.	
engineening prac	cuces, and the information presented is accurate and compete. YES	N
	X	11
or Engineering cor following statemen (a) the Insti	itutional Control and/or Engineering Control(s) employed at this site is uncha	he inge
since the da	ate that the Control was put in-place, or was last approved by the Departmen	ıt,
(b) nothing the environn	has occurred that would impair the ability of such Control, to protect public hent;	neal
	to the site will continue to be provided to the Department, to evaluate the	
	cluding access to evaluate the continued maintenance of this Control;	
remedy, incl (d) nothing	cluding access to evaluate the continued maintenance of this Control; has occurred that would constitute a violation or failure to comply with the pement Plan for this Control; and	
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IC CERTIFICATIONS SITE NO. C828109

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

IC/EC CERTIFICATIONS

Box 7

Professional Engineer 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.

Manus Styles Van Dussen at 2110 S. Clinton Aut, Tools, NY 146189

print name print business address

am certifying as a Professional Engineer for the 3130 Monroe Aenue Assoc. Lice Of Owner or Remedial Party, Rendering Certification at 2110 S. Clinton Aut, Tools, NY 146189

print business address

Assoc. Lice Of Owner or Remedial Party, Rendering Certification (Required for PE)