



March 1, 2016

NYSDEC Region 8
6274 East Avon-Lima Road
Avon, New York 14414
Attn: Mr. Mike Zamiarski

Re: 62-64 Scio Street Brownfield Cleanup
USEPA Assistance ID No. BF97219700
NYSDEC Spill No. 0650898
Groundwater Evaluation Summary Report

Dear Mike:

Please find enclosed summary information regarding the brownfield cleanup and groundwater quality evaluation which the City of Rochester has been conducting at 62-64 Scio Street, Rochester (Figure 1). Included with this report are: a copies of the laboratory analytical results; copies of the field sampling data; groundwater contour maps; and groundwater summary tables with graphical representations of groundwater contaminant concentrations through time.

Background and Methods

The City began the groundwater quality evaluation following contaminated soil source removal in August 2012, which is described in detail in the *Soil Source Removal Remedial Action Summary Report* previously submitted to the NYSDEC on March 25, 2013. Approximately 1,400 tons of petroleum contaminated soil were excavated from the Site as a result of two (2) leaking underground storage tanks, which were removed between 2003 and 2006. Soils exhibiting residual petroleum contamination were left in place along the southern limits of the property due to property limit restrictions and the presence of several public and private utility lines which could have potentially been damaged during excavation.

Six (6) new groundwater monitoring wells were installed at the Site in August, 2013. Monitoring Wells MW-4 and MW-6 were installed in the approximate locations of former monitoring wells MW-3 and MW-1 respectively, which were destroyed during the soil source excavation activities. Monitoring Wells MW-8 and MW-9 were installed on the southern adjacent property, hydraulically down-gradient from the Site, in order to further evaluate potential off-site contaminant migration. Figure 1 illustrates the locations of the existing monitoring well array. Post source removal groundwater samples were collected in August, 2013 and baseline contaminant concentrations were evaluated. Elevated levels of petroleum contaminants were detected in the south-central portion of the Site, and in the two (2) off-Site



wells. Consequently, in June, 2014, the City installed a MATRIX, 16-injection point (IP) oxygen injection (O₂) system in order to remediate residual contaminants in the groundwater and in contaminated soils along the southern limits of the property. System IPs were installed to provide adequate coverage across the Site, as well as to provide concentrated oxygen delivery to the most heavily contaminated portion of the Site, along the south-central property line. The O₂ system was in operation throughout the period from June 2014 to September 2015. Monthly O₂ system O&M visits were conducted to ensure the system was operating at optimal levels. Copies of the O₂ system O&M log sheets are included with this report.

Groundwater samples were collected quarterly and analyzed for Volatile Organic Compounds (VOCs) via EPA Method 8260. Field parameters including dissolved oxygen content, oxidation-reduction potential, and conductivity were also recorded in order to optimize the remediation system operation. A total of five (5) groundwater sampling events were completed from September 2014 through September 2015.

Findings

Table 1 summarizes the dissolved oxygen (DO) concentrations in groundwater recorded from each monitoring well and IP during each of the sampling events. Table 2 illustrates VOC contaminant concentrations in groundwater throughout the sampling period. Elevated DO concentrations, ranging from 1.38 mg/L to greater than 40 mg/L were consistently observed from groundwater samples during each sampling event. The successful delivery of concentrated oxygen to the water table and subsequent enhanced bioremediation of VOC contaminants resulted in a 100% reduction in VOC contaminant concentrations in all on-Site monitoring wells. Elevated VOC concentrations continue to be detected at off-Site monitoring wells MW-8 and MW-9 indicating the well locations are outside the radius of influence of the O₂ system. Groundwater Contour Maps with VOC concentrations for each sampling event are included in this report. Graphical depictions of the reduction in VOC concentrations at all monitoring wells are also included with this report.

Conclusions

Based on the results of the groundwater quality evaluation, the City respectfully requests deactivation of the O₂ system and decommissioning of the on-Site monitoring wells. The City proposes to discontinue oxygen injection for a period of three (3) months, at which time, groundwater samples will be collected from all monitoring wells and analyzed for VOCs. If no contaminant "rebound" is exhibited, the City will remove the O₂ system components and decommission all on-Site monitoring wells and IPs in accordance with all appropriate protocols.

The City will continue to address off-Site contamination through in-situ chemical oxidation technology. The City will work with the adjacent property owner to obtain legal access to the western parking lot at 58 Scio Street. An array of injection points, or temporary Geoprobe points will be advanced in order to introduce a chemical oxidant into groundwater via slurry or slow release cylinder. Groundwater quality will be evaluated through subsequent sample analysis. Additional injections will be administered as necessary in order to reach regulatory cleanup objectives. Once cleanup objectives are reached, the City will decommission any remaining

monitoring wells and injection points and petition the NYSDEC for spill closure and/ or a certificate of completion. Lu Engineers is currently preparing an off-Site remedial action approach and cost estimate for the City, which will be forwarded to your office for review and comment upon completion.

Please review the enclosed documentation and contact me at your convenience at 585.428.7892 or via e-mail at forbesj@cityofrochester.gov with any comments or recommendations.

Sincerely,

Jane MH Forbes
Environmental Specialist
City of Rochester – DEQ

cc: File

Enclosures

GAENVQUALJANE\JOBS\Scio Street Cleanup_EPA2011\Groundwater Evaluation Summary 02-22-2016.docx

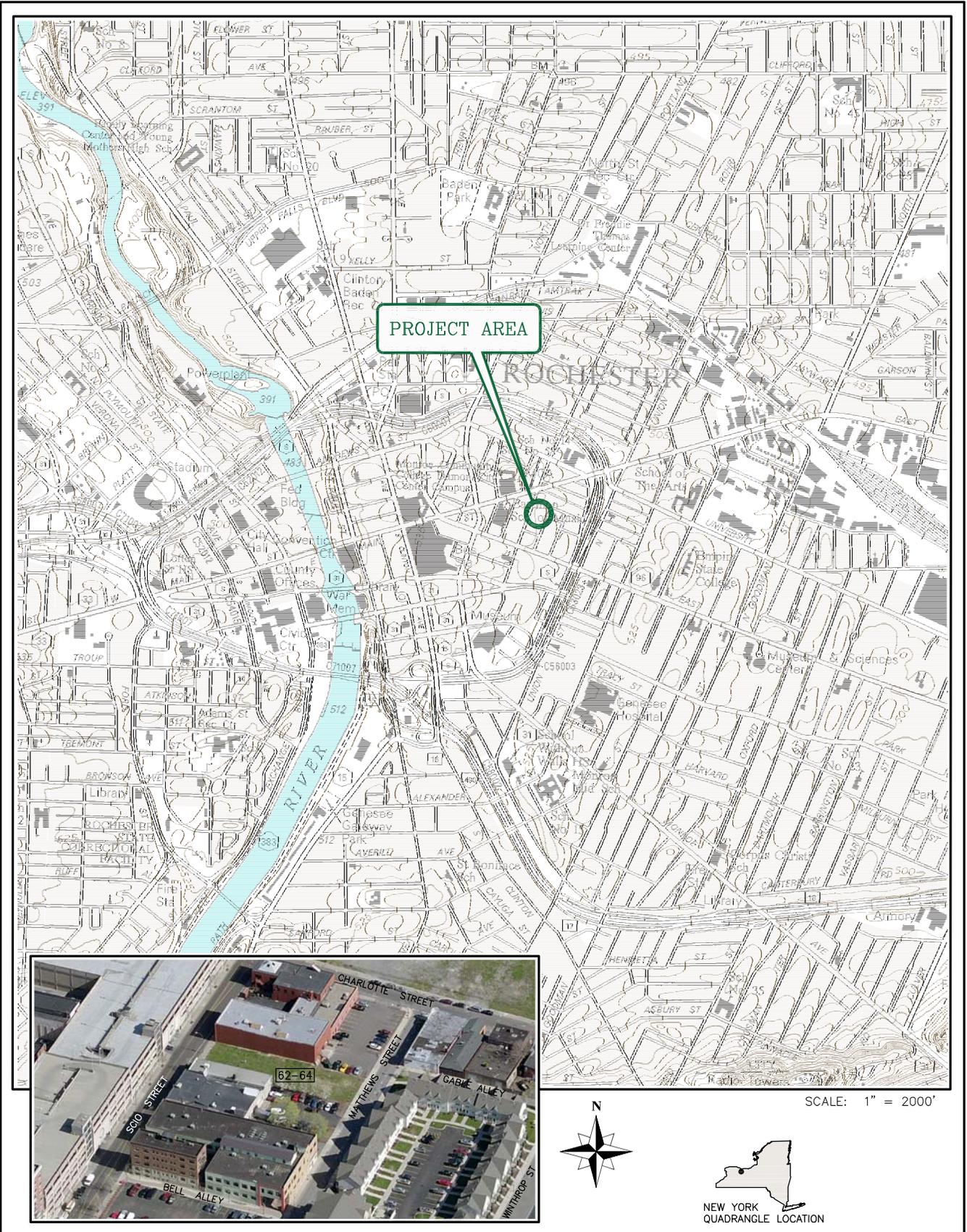


FIGURE 1. SITE LOCATION MAP
CITY OF ROCHESTER | BROWNFIELD SITE CLEAN-UP
62-64 SCIO STREET
ROCHESTER - MONROE COUNTY - NEW YORK

DATE: JANUARY 2012

SCALE: 1:24,000

DRAWN BY: DLS

MAP SOURCE: NYS DOT RASTER QUADRANGLES - ROCHESTER WEST & ROCHESTER EAST / NEW YORK, MONROE COUNTY
 DOT EDITION DATE: 1997 / USGS CONTOUR DATA: 1971.
 2009 MICROSOFT CORPORATION, 2009 NAVTEQ AND
 2009 PICTOMETRY INTERNATIONAL CORP.

Table 162-64 Scio Street
Dissolved Oxygen Comparison

IP ID:	Sample Date				
	9/18/2014	12/22/2014	3/31/2015	6/16/2015	9/23/2015
IP1	44.93	NS	29.77	30.27	20.05
IP2	28.56	NS	25.40	23.93	6.38
IP3	6.81	35.51	14.00	28.47	3.19
IP4	18.61	35.90	27.71	30.27	20.30
IP5	22.66	29.77	27.43	24.82	23.69
IP6	22.33	20.04	25.44	16.59	19.76
IP7	22.01	20.30	17.14	17.53	15.52
IP8	11.97	20.01	14.62	14.09	5.12
IP9	35.19	23.15	26.29	22.28	6.03
IP10	3.52	2.57	12.34	6.98	2.66
IP11	37.02	8.70	25.23	26.51	20.20
IP12	40.06	33.22	29.63	7.65	16.99
IP13	45.00	27.20	26.91	28.40	20.99
IP14	38.63	27.46	29.87	26.88	5.22
IP15	12.63	14.49	20.06	17.21	1.38
IP16	17.81	25.17	14.70	13.64	13.45
MW-02	4.63	13.81	12.34	16.17	13.45
MW-04 (former MW-03)	3.70	20.40	17.54	18.52	15.02
MW-05	0.27	NS	19.41	12.85	7.99
MW-06 (former MW-01)	0.11	10.70	9.41	7.22	2.86
MW-07	1.47	7.08	16.59	8.55	9.30
MW-08	0.06	3.55	7.70	1.50	1.26
MW-09	0.06	5.39	11.48	1.75	2.12

NS=Not Sampled

DO results are reported in mg/L

Table 2
62-64 Scio Street BCP Site
City of Rochester
Quarterly Groundwater Sampling Results
September 2015

Groundwater Results - VOCs

Detected Parameters ¹	NYS GW Std ²	MW-02							MW-04 (Former MW-03)							MW-05							MW-06 (Former MW-01)						
		May-07 ³	Aug-13	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	May-07 ³	Aug-13	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	Aug-13	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	May-07 ³	Aug-13	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	
1,2,4-Trimethylbenzene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	1,210	5.71	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	156	10.2	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	
1,3,5-Trimethylbenzene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	249	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		
Benzene	1	< 0.700	< 0.700	< 0.700	< 0.700	< 0.700	< 0.700	< 1.00	1,660	7.36	0.409	< 0.700	0.846	< 0.700	< 1.00	< 0.700	< 0.700	NS	< 0.700	< 0.700	< 1.00	24.1	< 0.700	< 0.700	< 0.700	< 0.700	< 0.700	< 1.00	
Ethylbenzene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	1,530	26	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	385	5.42	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	
Isopropylbenzene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	80	4.78	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	38.3	1.93	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	
m/p-Xylenes	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	4,876	< 2.00	< 2.00	< 2.00	< 2.00	2.91	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	231.4	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	
Methyl-Tert-Butyl Ether	10	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	
Naphthalene	10	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	438	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	NS	< 5.00	< 5.00	< 5.00	< 2.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	
n-Butylbenzene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	1.54	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	< 2.00	2.61	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	
n-Propylbenzene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	154	6.02	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	95	1.13	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	
o-Xylene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	
p-Isopropyltoluene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	
sec-Butylbenzene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	
tert-Butylbenzene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	
Toluene	5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	1,260	2.07	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	NS	< 2.00	< 2.00	< 2.00	31.4	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	

Detected Parameters ¹	NYS GW Std ²	MW-07						MW-08						MW-09					
		Aug-13	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	Aug-13	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	Aug-13	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15
1,2,4-Trimethylbenzene	5	163	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	97.5	41.8	118	549	400	848	2.00	< 2.00	< 2.00	4.40	< 2.00	< 2.00
1,3,5-Trimethylbenzene	5	29.1	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	21.8	3.15	13.6	116	64.4	115	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Benzene	1	9.41	< 0.700	< 0.700	< 0.700	< 0.700	< 1.00	60.4	8.74	25.4	47.0	35.7	39.1	4.11	1.53	1.75	1.80	1.68	1.20
Ethylbenzene	5	216	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	207	60.8	163	677	568	1,060	15.1	5.99	7.88	9.74	< 2.00	< 2.00
Isopropylbenzene	5	24.7	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	20.7	6.71	16.2	36.2	29.9	62.4	2.83	6.05	4.52	2.24	< 2.00	< 2.00
m/p-Xylenes	5	510	< 2.00	6.01	< 2.00	5.36	< 2.00	248	53.7	182	1420	952	1,400	11.4	1.02	2.34	10.7	< 2.00	< 2.00
Methyl-Tert-Butyl Ether	10	< 20.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 20.0	< 2.00	< 4.00	< 20.0	< 20.0	< 20.0	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Naphthalene	10	142	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	60	9.24	38.1	182	139	266	11.7	< 5.00	< 5.00	5.43	< 5.00	< 5.00
n-Butylbenzene	5	< 20.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 20.0	1.59	5.89	< 20.0	< 20.0	< 20.0	< 2.00	1.38	< 2.00	< 2.00	< 2.00	< 2.00
n-Propylbenzene	5	55	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	38.6	13.3	32.4	82.2	75.3	155	4.93	10.3	10.3	2.94	2.04	< 2.00
o-Xylene	5	74.5	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	16	4.21	16.8	78.2	46.2	52.2	2.14	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
p-Isopropyltoluene	5	< 20.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 20.0	< 2.00	< 4.00	< 20.0	< 20.0	< 20.0	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
sec-Butylbenzene	5	< 20.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 20.0	< 2.00	< 4.00	< 20.0	< 20.0	< 20.0	< 2.00	1.51	< 2.00	< 2.00	< 2.00	< 2.00
tert-Butylbenzene	5	< 20.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 20.0	< 2.00	< 4.00	< 20.0	< 20.0	< 20.0	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00
Toluene	5	36.2	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	23.9	4.9	17	94.0	70.1	95.6	3.18	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00

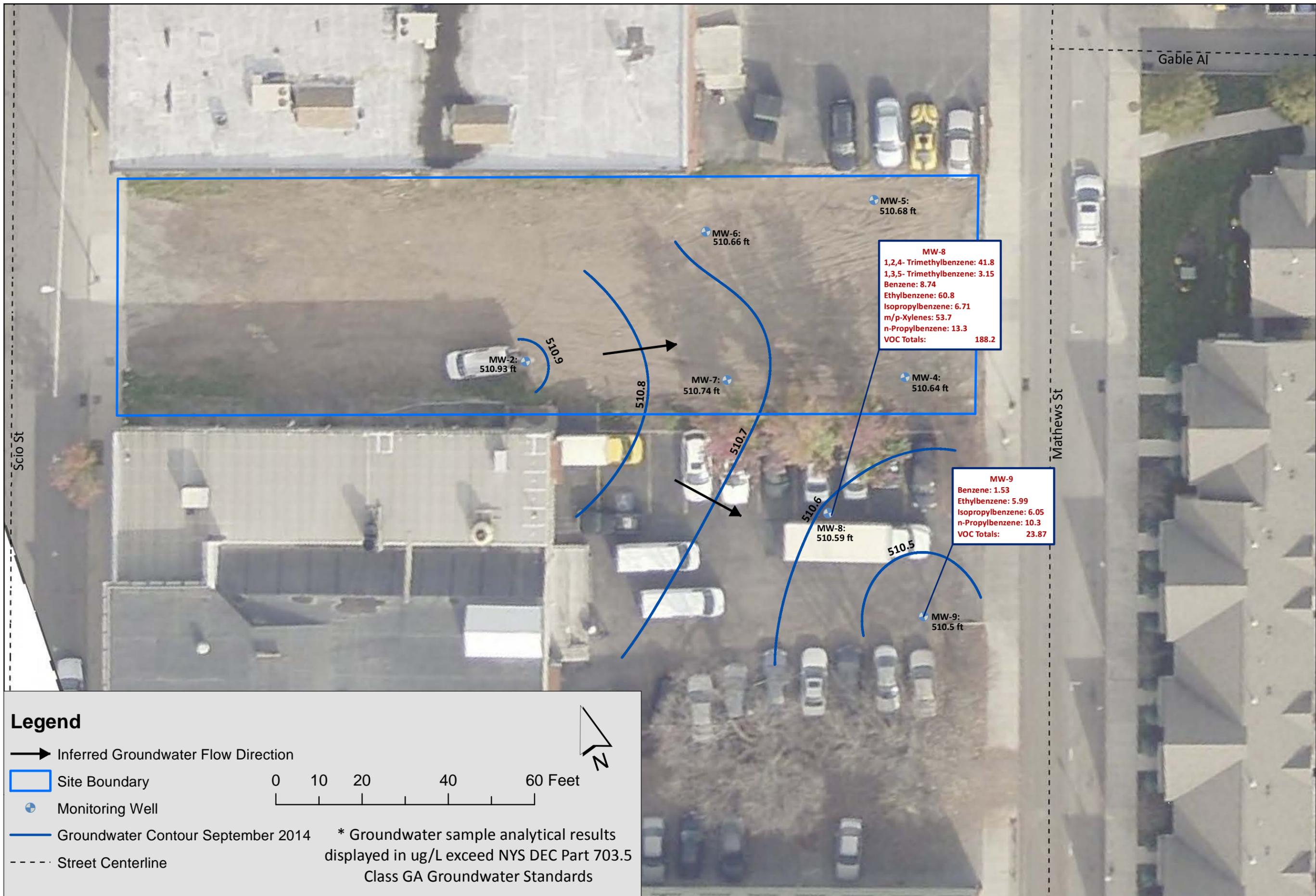
BOLD parameter detected above NYS Ambient Groundwater Standard or applicable NYSDEC Guidance Value

1 - Results presented in ug/L or parts per billion (ppb)

2 - NYS Ambient Groundwater Standard

3 - May 2007 groundwater data shown for trend analysis comparison

NS = Not Sampled



Legend

➔ Inferred Groundwater Flow Direction

▭ Site Boundary

⊕ Monitoring Well

— Groundwater Contour September 2014

- - - Street Centerline

0 10 20 40 60 Feet



* Groundwater sample analytical results displayed in ug/L exceed NYS DEC Part 703.5 Class GA Groundwater Standards

MW-8
 1,2,4- Trimethylbenzene: 41.8
 1,3,5- Trimethylbenzene: 3.15
 Benzene: 8.74
 Ethylbenzene: 60.8
 Isopropylbenzene: 6.71
 m/p-Xylenes: 53.7
 n-Propylbenzene: 13.3
 VOC Totals: 188.2

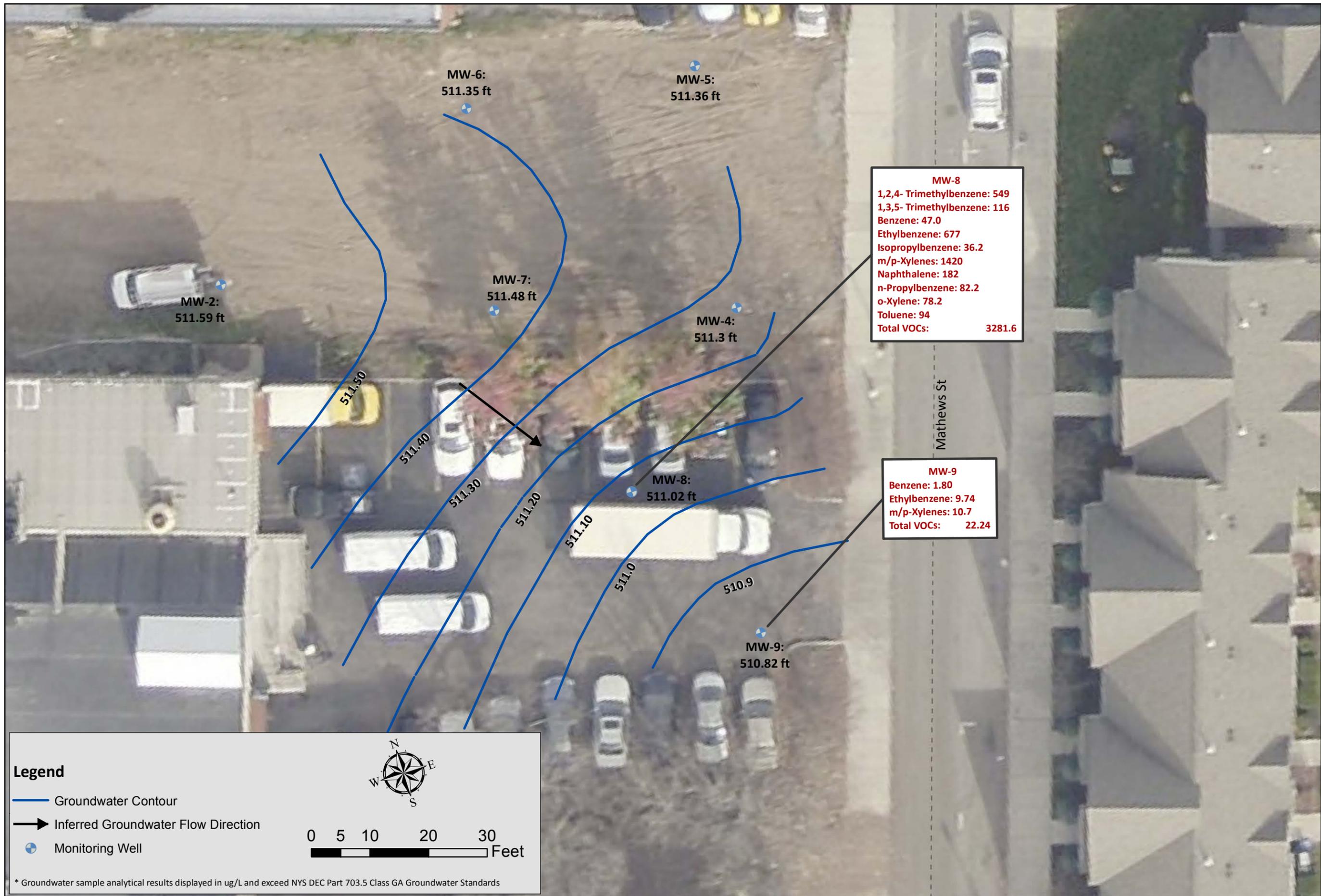
MW-9
 Benzene: 1.53
 Ethylbenzene: 5.99
 Isopropylbenzene: 6.05
 n-Propylbenzene: 10.3
 VOC Totals: 23.87

DATE: NOVEMBER 2014
 SCALE: 1 Inch= 20 Feet
 DRAWN/CHECKED: CSB/ED
 DATA SOURCE: PICTOMETRY



GROUNDWATER CONTOUR MAP
 SEPTEMBER 2014
 62-64 SCIO STREET BCP SITE
 ROCHESTER, NY





Legend

-  Groundwater Contour
-  Inferred Groundwater Flow Direction
-  Monitoring Well



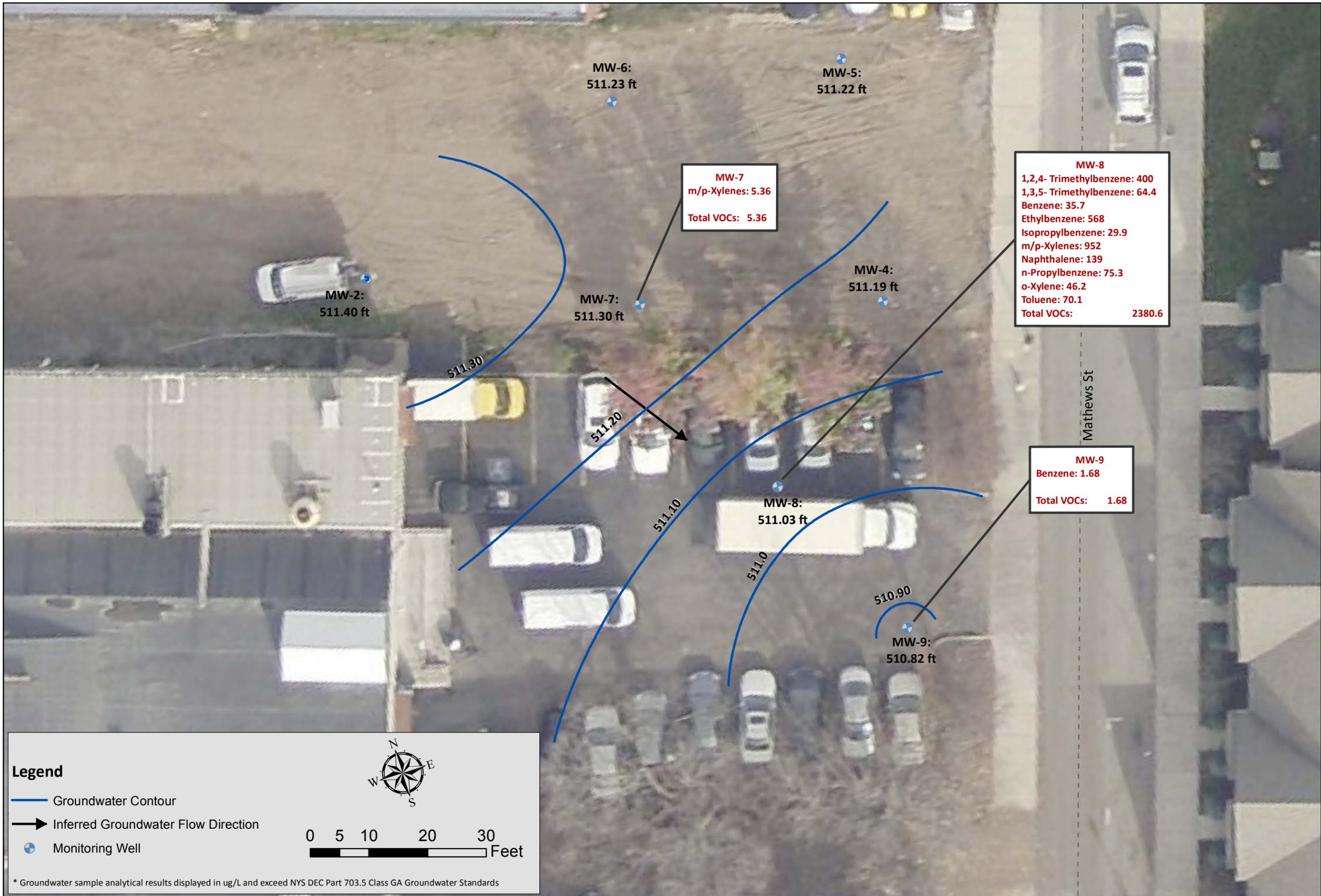
* Groundwater sample analytical results displayed in ug/L and exceed NYS DEC Part 703.5 Class GA Groundwater Standards

DATE: JULY 2015
 SCALE: 1 Inch= 15 Feet
 DRAWN/CHECKED: CSB/ED
 DATA SOURCE:
 PICTOMETRY



GROUNDWATER CONTOUR MAP
 March 2015
 62-64 SCIO STREET BCP SITE
 ROCHESTER, NY





Legend

- Groundwater Contour
- Inferred Groundwater Flow Direction
- Monitoring Well



* Groundwater sample analytical results displayed in ug/L and exceed NYS DEC Part 703.5 Class GA Groundwater Standards

DATE: July 2015

SCALE: 1 Inch= 15 Feet

DRAWN/CHECKED: CSB/ED

DATA SOURCE:
PICTOMETRY

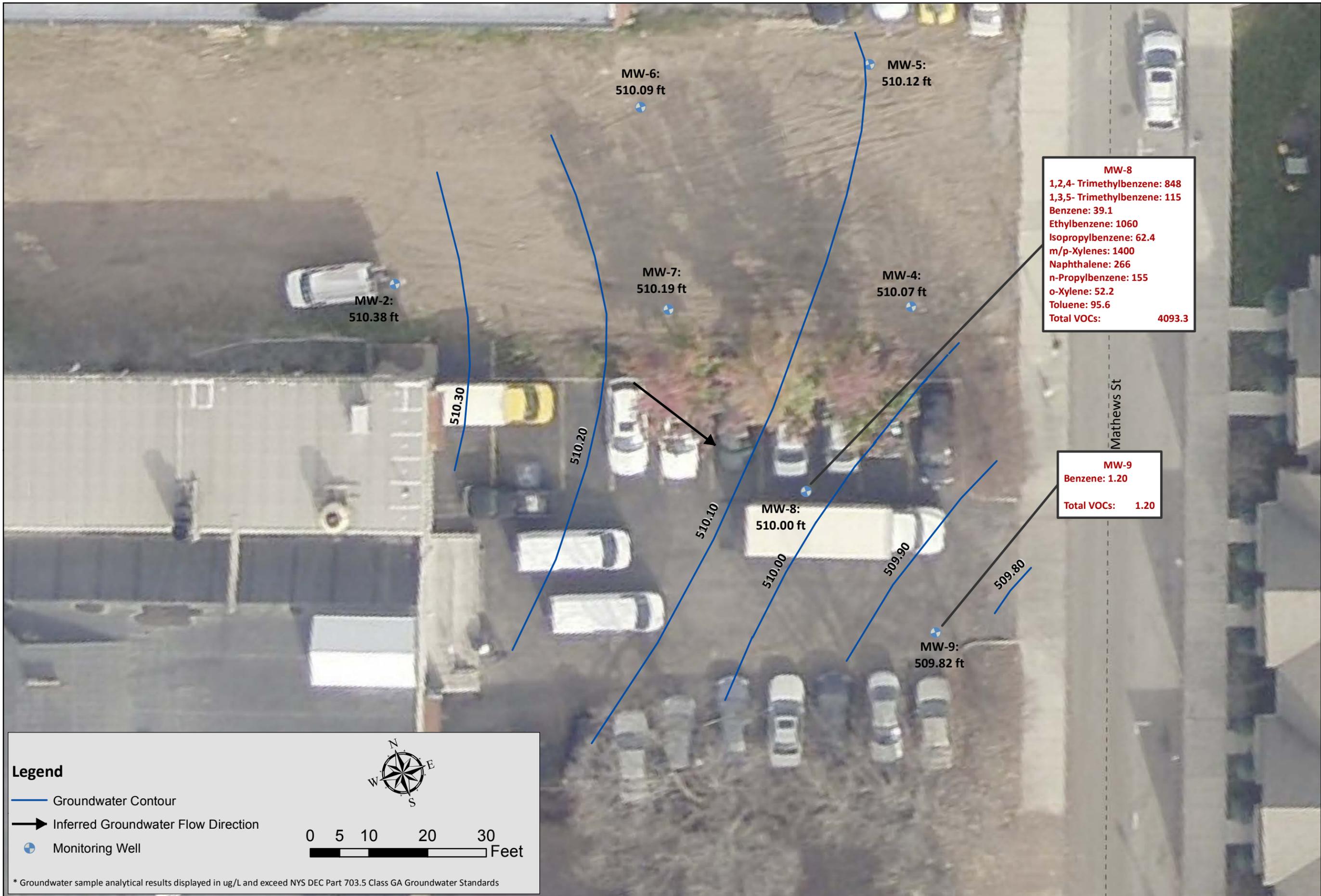


GROUNDWATER CONTOUR MAP

June 2015

62-64 SCIO STREET BCP SITE
ROCHESTER, NY





MW-8
 1,2,4- Trimethylbenzene: 848
 1,3,5- Trimethylbenzene: 115
 Benzene: 39.1
 Ethylbenzene: 1060
 Isopropylbenzene: 62.4
 m/p-Xylenes: 1400
 Naphthalene: 266
 n-Propylbenzene: 155
 o-Xylene: 52.2
 Toluene: 95.6
Total VOCs: 4093.3

MW-9
 Benzene: 1.20
Total VOCs: 1.20

Legend

-  Groundwater Contour
-  Inferred Groundwater Flow Direction
-  Monitoring Well



* Groundwater sample analytical results displayed in ug/L and exceed NYS DEC Part 703.5 Class GA Groundwater Standards

DATE: September 2015
 SCALE: 1 Inch= 15 Feet
 DRAWN/CHECKED: CSB/ED
 DATA SOURCE:
 PICTOMETRY

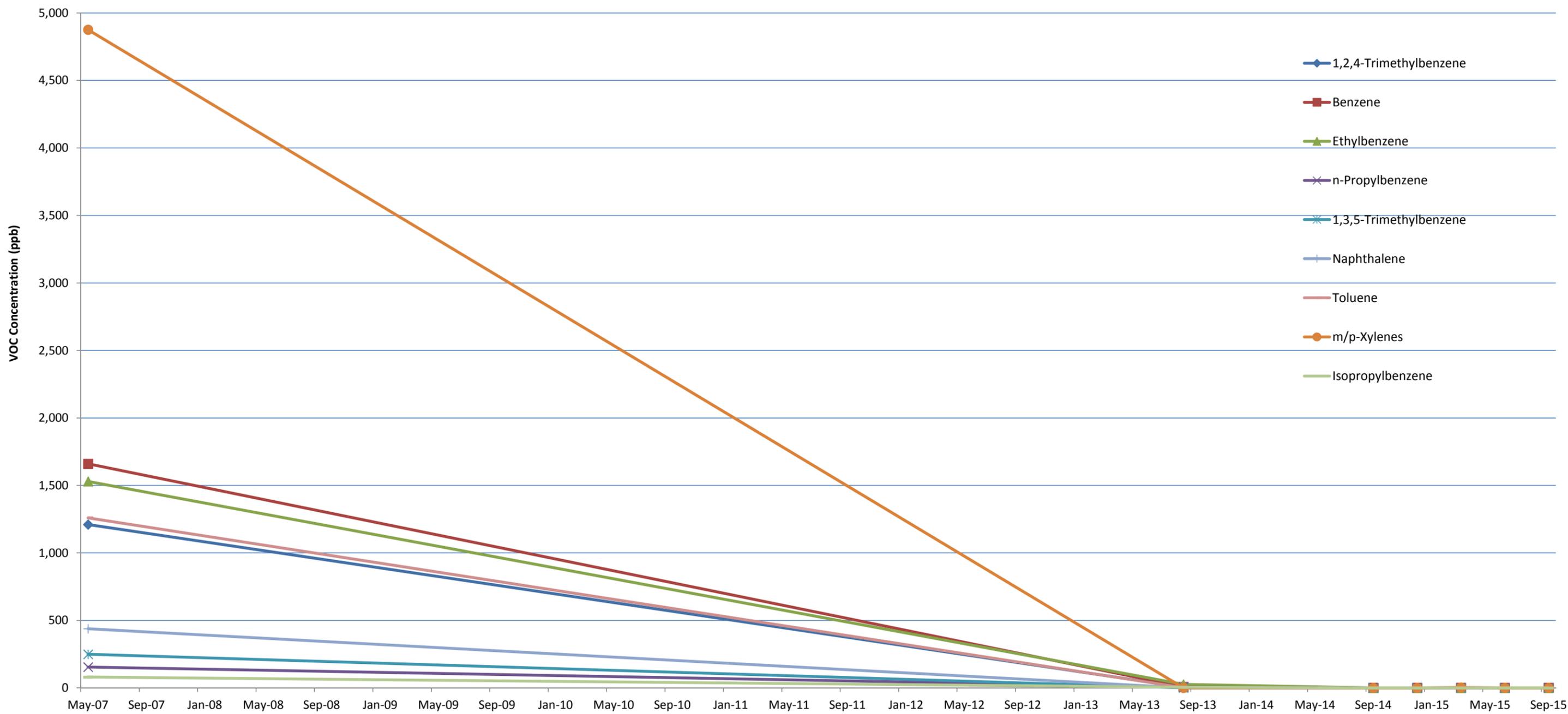


GROUNDWATER CONTOUR MAP
 September 2015
 62-64 SCIO STREET BCP SITE
 ROCHESTER, NY



**62-64 Scio Street BCP Site
City of Rochester
Quarterly Groundwater Sampling Results
Comparison**

MW-04 (former MW-03)

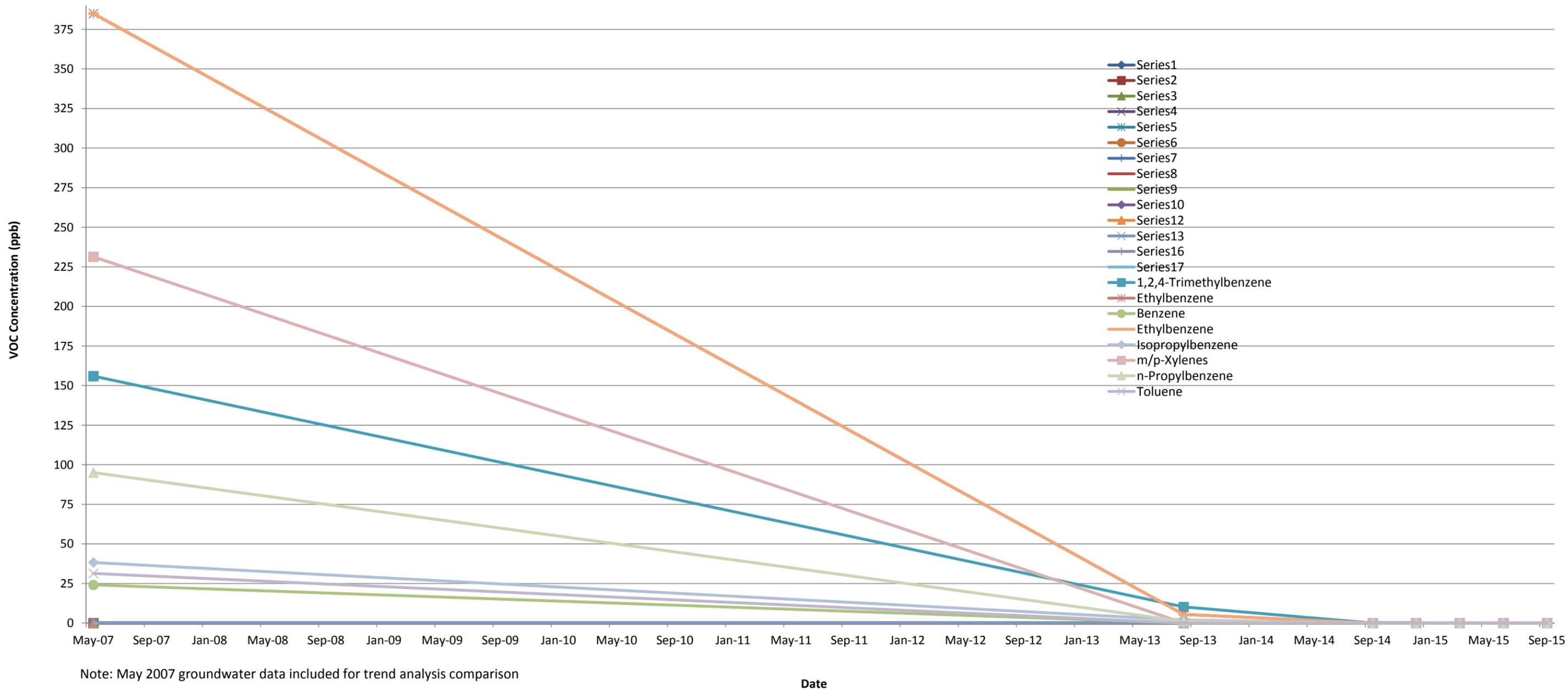


Note: May 2007 groundwater data included for trend analysis comparison

Date

**62-64 Scio Street BCP Site
City of Rochester
Quarterly Groundwater Sampling Results
Comparison**

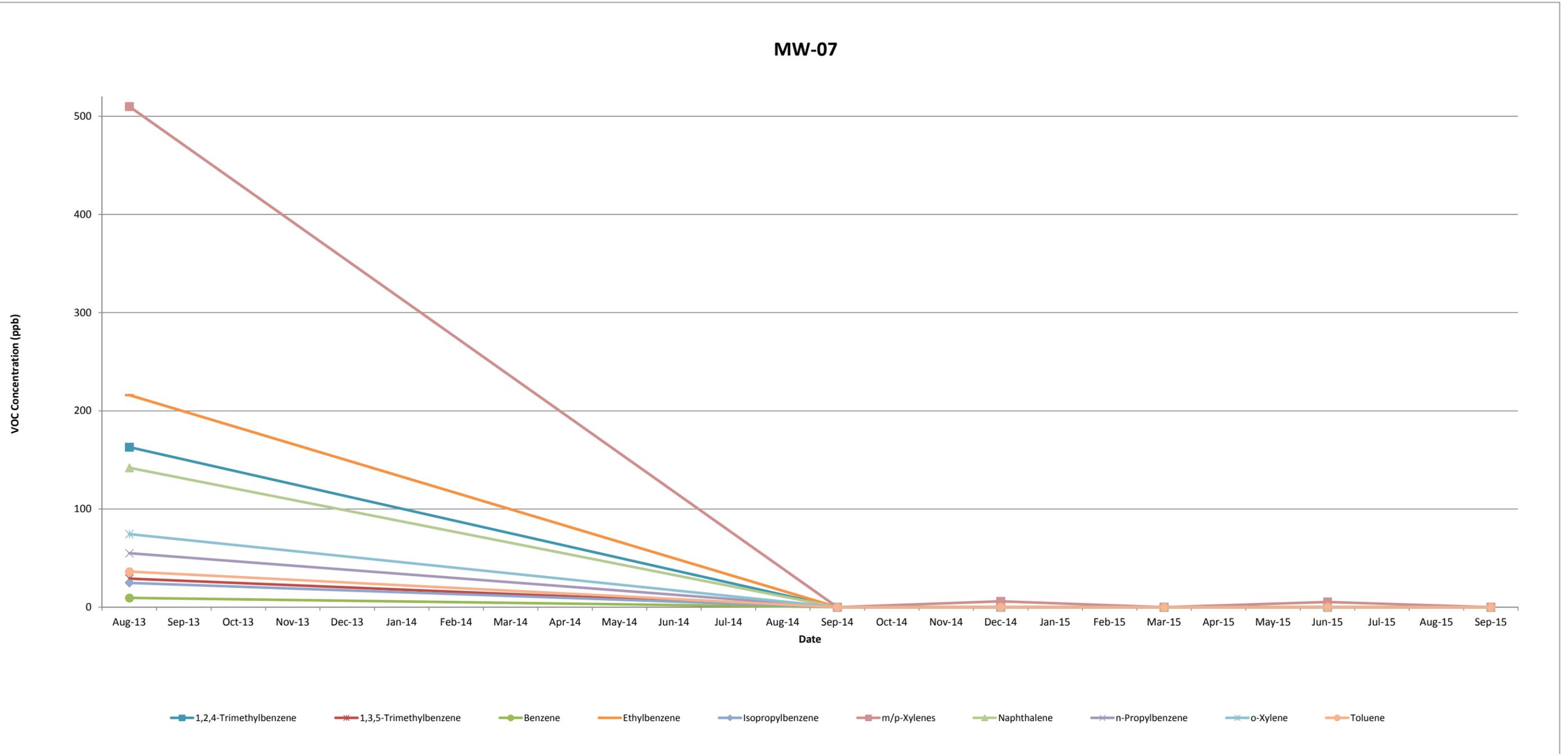
MW-06 (former MW-01)



Note: May 2007 groundwater data included for trend analysis comparison

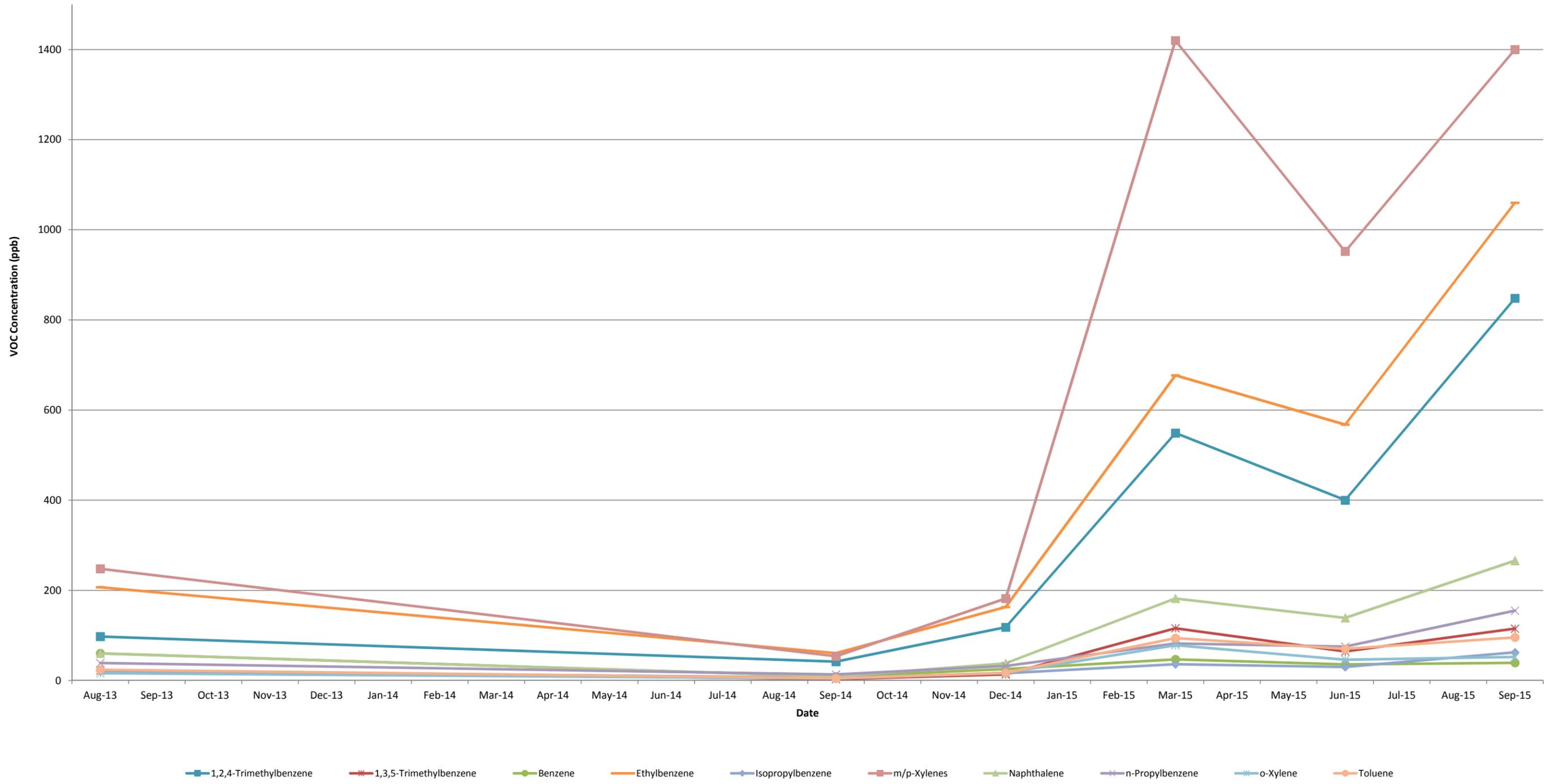
**62-64 Scio Street BCP Site
City of Rochester
Quarterly Groundwater Sampling Results
September 2015**

MW-07



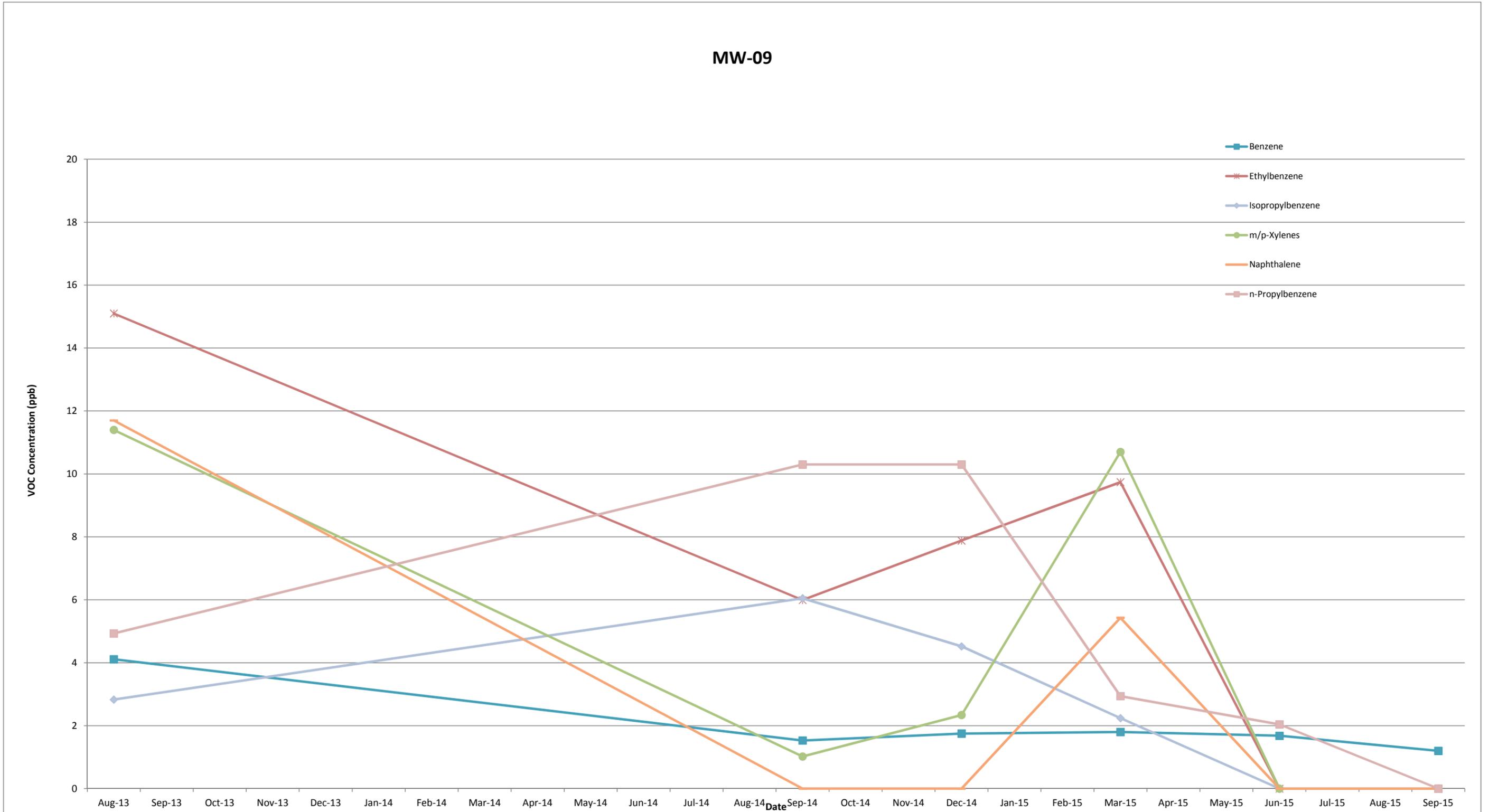
**62-64 Scio Street BCP Site
City of Rochester
Quarterly Groundwater Sampling Results
September 2015**

MW-08



**62-64 Scio Street BCP Site
City of Rochester
Quarterly Groundwater Sampling Results
September 2015**

MW-09



Low Flow Groundwater Sampling Field Record



Project Name SC10 ST
 Location ID 62-64 SC10 ST
 Activity Time 0942

Field Sample ID MW-6
 Sample Time 12:07

Job # 4226
 Sampling Event # ---
 Date 9/18/14

SAMPLING NOTES

Initial Depth to Water 8.64 feet
 Final Depth to Water 8.61 feet
 Screen Length _____ feet
 Total Volume Purged ~ 3 gallons
 Measurement Point TOR
 Well Depth 14.82 feet
 Pump Intake Depth _____
 PID Well Head _____

Well Diameter 2"
 Well Integrity:
 Cap Good
 Casing _____
 Locked ↓
 Collar ↓

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
 Volume of Water in casing - 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

6.18 = 1.007

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
11:20	8.64	250 ml	16.8	6.82	1.17	20.0	1.49	-68.9	
11:25	8.63	250 ml	16.9	6.89	0.23	12.3	1.48	-89.2	
11:30	8.61	251	16.8	6.90	0.21	7.56	1.47	-92.0	
11:35	8.61	251	16.9	6.90	0.22	6.58	1.47	-92.2	
11:40	8.64	251	16.9	6.91	0.19	5.72	1.46	-92.8	
11:45	8.63	251	16.8	6.91	0.16	4.62	1.46	-94.4	
11:50	8.62	251	16.8	6.89	0.17	3.75	1.46	-94.2	
11:55	8.62	252	16.9	6.90	0.12	2.82	1.46	-95.3	
12:00	8.60	252	16.8	6.91	0.11	3.02	1.46	-95.7	
12:05	8.61	250	16.9	6.91	0.11	2.88	1.45	-96.1	

Purge Observations: Cloudy, no odor
 Purge Water Containerized: N/A

EQUIPMENT DOCUMENTATION

Type of Pump: Peristaltic
 Type of Tubing: 1/4" HDPE
 Type of Water Quality Meter: Horiba U-22; LaMotte 2020

Calibrated: Yes

ANALYTICAL PARAMETERS

Parameter Volumes Sample Collected
 VOCs 3 x 40 ml X 2 VOAs

LOCATION NOTES

Signature: [Signature]
 Checked By: _____

Low Flow Groundwater Sampling Field Record



Project Name SCIO ST.
 Location ID 62149 SCIO ST
 Activity Time 0954

Field Sample ID MW-8
 Sample Time 1:47

Job # 4224
 Sampling Event # _____
 Date 9/18/14

SAMPLING NOTES

Initial Depth to Water 8.50 feet Measurement Point TOR
 Final Depth to Water 8.83 feet Well Depth 17.23 feet
 Screen Length _____ feet Pump Intake Depth _____
 Total Volume Purged ~5 gallons PID Well Head _____

Well Diameter 2"
 Well Integrity:
 Cap Good
 Casing ✓
 Locked ✓
 Collar _____

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
 Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
12:40	8.60	100ml	17.7	7.10	0.22	4.38	1.87	-134.3	
12:55	8.68	150ml	17.6	7.12	0.12	3.22	1.76	-140.1	
1:00	8.65	149ml	17.3	7.13	0.11	3.04	1.76	-138.7	
1:05	8.63	150ml	17.1	7.13	0.26	4.29	1.83	-142.5	
1:10	8.69	150ml	17.4	7.13	0.11	5.64	1.81	-143.9	
1:15	8.63	pump stopped	16.8	7.14	0.05	4.29	1.78	-148.6	
1:25	8.71	250	17.3	7.15	0.26	2.57	1.68	-131.3	tubing got caught
1:30	8.80	250	17.3	7.12	0.08	2.81	1.78	-142.0	
1:35	8.83	250	17.2	7.10	0.06	2.50	1.80	-148.4	
1:40	8.81	250	17.2	7.07	0.08	6.11	1.87	-150.7	
1:45	8.83	250	17.2	7.06	0.06	2.84	1.86	-153.5	

Purge Observations: smells like tar (Biomass) pump keeps stopping
 Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

Type of Pump: peristaltic
 Type of Tubing: 1/4" HDPE
 Type of Water Quality Meter: Horiba U-22; LaMotte 2020

Calibrated: yes

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	3 x 40 ml	X2 <u>VOCs</u>

LOCATION NOTES

Signature: [Signature]
 Checked By: _____

Low Flow Groundwater Sampling Field Record



Project Name Scio St.
 Location ID 62124 Scio St.
 Activity Time 1003

Field Sample ID MW-7
 Sample Time 1410

Job # 4226
 Sampling Event # ---
 Date 9/18/14

SAMPLING NOTES

Initial Depth to Water 8.36 feet Measurement Point TOR
 Final Depth to Water 8.37 feet Well Depth 16.21 feet
 Screen Length _____ feet Pump Intake Depth _____
 Total Volume Purged ~3.5 gallons PID Well Head ##

Well Diameter 2"
 Well Integrity: _____
 Cap Good
 Casing _____
 Locked ↓
 Collar ↓

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]

Volume of Water in casing - 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

1.279 gallons

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1311	8.35	250	16.7	7.04	1.61	34.91	59.9	-19.9	
1316	8.38	250	16.9	7.04	2.21	12.2	1.52	-18.9	
1321	8.37	250	17.0	7.03	2.10	7.2	1.53	-41.8	
1326	8.37	250	17.1	7.03	2.06	4.87	1.54	-41.9	
1331	8.36	250	17.1	7.03	2.06	5.08	1.53	-39.0	
1336	8.36	250	17.1	7.02	1.68	2.08	1.54	-47.6	
1341	8.36	250	17.1	7.02	1.74	1.26	1.53	-41.0	
1346	8.36	250	17.1	7.02	1.72	1.19	1.52	-37.7	
1351	8.36	250	17.2	7.01	1.58	1.09	1.52	-40.4	
1356	8.36	250	17.2	7.01	1.79	0.66	1.53	-38.0	
1401	8.36	250	17.1	7.01	1.62	0.74	1.53	-42.2	
1406	8.37	250	17.1	7.01	1.47	0.64	1.53	-44.0	

Purge Observations: Turbid, slight petroleum odor
 Purge Water Containerized: N/A

EQUIPMENT DOCUMENTATION

Type of Pump: Peristaltic
 Type of Tubing: 1/4" HDPE
 Type of Water Quality Meter: Horiba U-22; LaMotte 2020

Calibrated: Yes

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	3 x 40 ml	x 2 VOA's

LOCATION NOTES

Signature: _____
 Checked By: _____

Low Flow Groundwater Sampling Field Record

 Project Name Scio St
 Location ID 42-64 Scio St.
 Activity Time 0959

 Field Sample ID hw-9
 Sample Time 2:45 pm

 Job # 4226
 Sampling Event #
 Date 9/18/14

SAMPLING NOTES

 Initial Depth to Water 7.81 feet Measurement Point TOR
 Final Depth to Water 7.99 feet Well Depth 17.26 feet
 Screen Length feet Pump Intake Depth
 Total Volume Purged ~3 gallons PID Well Head

 Well Diameter 2"
 Well Integrity:
 Cap good
 Casing
 Locked
 Collar

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]

Volume of Water in casing - 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
2:08	7.82	250	16.8	7.23	0.22	1.46	1.70	-116.6	
2:13	8.02	250	16.8	7.26	0.70	1.59	1.07	-129	
2:19	7.98	250	16.8	7.26	0.08	1.58	1.60	-135.1	
2:25	7.99	250	16.9	7.26	0.08	0.91	1.60	-138.1 → -138.1	
2:30	7.99	250	16.8	7.26	0.07	1.54	1.61	-139.4	
2:35	7.99	250	16.8	7.26	0.06	1.61	1.68	-141.2	
2:40	8.00	250	16.8	7.26	0.06	0.95	1.74	-141.0	
2:45									

 Purge Observations: Cloudy, no odor
 Purge Water Containerized:

EQUIPMENT DOCUMENTATION

 Type of Pump: Peristaltic
 Type of Tubing: 1/4" HDPE
 Type of Water Quality Meter: Horiba U-22; LaMotte 2020

 Calibrated: YES

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	3 x 40 ml	~ 2 vials

LOCATION NOTES

 Signature:
 Checked By:

Low Flow Groundwater Sampling Field Record

 Project Name SC10 ST
 Location ID 62-64 SC10 ST
 Activity Time 1055

 Field Sample ID MW-4
 Sample Time 1520

 Job # 4226
 Sampling Event # ---
 Date 9/18/14

SAMPLING NOTES

 Initial Depth to Water 7.36 feet
 Final Depth to Water 7.40 feet
 Screen Length _____ feet
 Total Volume Purged 3.0 gallons
 Measurement Point TOR
 Well Depth 13.84 feet
 Pump Intake Depth _____
 PID Well Head _____

 Well Diameter 2"
 Well Integrity:
 Cap Good
 Casing ↓
 Locked ↓
 Collar ↓

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]

Volume of Water in casing - 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1422	7.40	250	16.6	7.20	6.65	4.22	0.93	25.1	
1427	7.40	250	16.8	7.18	5.98	2.04	0.94	24.9	
1432	7.40	250	16.7	7.18	5.57	3.75	0.95	24.8	
1437	7.40	250	16.7	7.17	4.21	2.25	0.97	7.8	
1442	7.40	250	16.7	7.17	3.99	1.98	0.97	0.9	
1447	7.40	250	16.7	7.17	3.84	1.60	0.97	0.6	
1452	7.40	250	16.7	7.17	3.65	1.13	0.98	-5.1	
1457	7.40	250	16.7	7.17	3.62	1.08	0.98	-6.7	
1502	7.40	250	16.7	7.17	3.65	1.00	0.98	-9.9	
1507	7.40	250	16.7	7.17	3.71	0.80	0.98	-10.0	
1512	7.40	250	16.7	7.17	3.62	0.89	0.99	-12.0	
1517	7.40	250	16.7	7.17	3.70	0.53	0.99	-14.0	

 Purge Observations: Turbid, no odor
 Purge Water Containerized: N/A

EQUIPMENT DOCUMENTATION

 Type of Pump: Peristaltic
 Type of Tubing: 1/4" HDPE
 Type of Water Quality Meter: Horiba U-22; LaMotte 2020

 Calibrated: Yes

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	3 x 40 ml	x 2 VAS

LOCATION NOTES

 Signature: [Signature]
 Checked By: _____

Low Flow Groundwater Sampling Field Record



Project Name SC10 ST
 Location ID 62-64 SC10
 Activity Time 0929

Field Sample ID MW-2
 Sample Time 0929 1235

Job # 4226
 Sampling Event # __
 Date 9/18/14

SAMPLING NOTES

Blind Dup

Initial Depth to Water 11.17 feet
 Final Depth to Water 11.65 feet
 Screen Length feet
 Total Volume Purged ~ 3.5 gallons
 Measurement Point TOR
 Well Depth 14.86 feet
 Pump Intake Depth
 PID Well Head

Well Diameter 2"
 Well Integrity:
 Cap GOOD
 Casing
 Locked
 Collar

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
 Volume of Water in casing - 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1148	11.30	250	16.6	7.18	7.54	12.3	0.81	59.1	
1153	11.50	250	16.6	7.16	6.79	9.99	0.82	65.3	
1158	11.64	250	16.6	7.16	5.93	7.23	0.81	69.3	
1203	11.65	250	16.6	7.16	5.54	4.98	0.81	73.9	
1208	11.65	250	16.6	7.16	5.17	3.59	0.81	76.6	
1213	11.66	250	16.6	7.17	4.92	1.51	0.82	79.2	
1218	11.63	250	16.6	7.16	4.76	1.02	0.83	82.2	
1223	11.65	250	16.6	7.16	4.67	1.53	0.83	83.6	
1228	11.65	250	16.6	7.16	4.63	1.50	0.84	83.9	

Purge Observations: Cloudy, no odor
 Purge Water Containerized: N/A

EQUIPMENT DOCUMENTATION

Type of Pump: Peristaltic
 Type of Tubing: 1/4" HDPE
 Type of Water Quality Meter: Horiba U-22; LaMotte 2020

Calibrated: Yes

ANALYTICAL PARAMETERS

Parameter Volumes Sample Collected
 VOCs 3 x 40 ml x4 - Blind Dup

LOCATION NOTES

Signature: [Signature]
 Checked By:

Groundwater Sampling Field Record



Project Name Scio St BCP Site
 Location ID MW-2
 Activity Time 1121

Field Sample ID MW-2_12-22-14
 Sample Time 1129

Job # 4226
 Sampling Event # 02
 Date 12/22/14

SAMPLING NOTES

Initial Depth to Water 11.08 feet Measurement Point TOR
 Final Depth to Water _____ feet Well Depth 15.32 feet
 Screen Length 10 feet Pump Intake Depth -
 Total Volume Purged 22 gallons PID Well Head -

Well Diameter 2"
 Well Integrity:
 Cap ok
 Casing ok
 Locked ✓
 Collar ok

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
 Volume of Water in casing - 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1129	11.08	bailer	11.0	7.30	13.81	189	0.89	92.6	

Purge Observations: _____
 Purge Water Containerized: NO-per NYSDEC

EQUIPMENT DOCUMENTATION

Type of Pump: NA - sample by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020

Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	yes

LOCATION NOTES

Signature: _____
 Checked By: _____

Groundwater Sampling Field Record

 Project Name Scio St BCP Site
 Location ID MW-8
 Activity Time 1156

 Field Sample ID MW-8-12-22-14
 Sample Time 1215

 Job # 4226
 Sampling Event # 02
 Date 12/22/14

SAMPLING NOTES

 Initial Depth to Water 8.56 feet
 Final Depth to Water — feet
 Screen Length 10 feet
 Total Volume Purged ~4.5 gallons
 Measurement Point TOR
 Well Depth 17.55 feet
 Pump Intake Depth —
 PID Well Head —

 Well Diameter 2"
 Well Integrity:
 Cap OK
 Casing OK
 Locked Y
 Collar OK

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]

Volume of Water in casing - 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1215	8.56	bailer	10.2	7.16	3.55	8.21	4.77	-43.5	

 Purge Observations: _____
 Purge Water Containerized: no - discharge to MCPW per NYSDEC

EQUIPMENT DOCUMENTATION

 Type of Pump: NA - sample by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020

Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	<u>yes</u>

LOCATION NOTES

 Signature: _____
 Checked By: _____

Groundwater Sampling Field Record

 Project Name Scio St BCP Site
 Location ID Mw-2
 Activity Time 1041

 Field Sample ID Mw-2-033115
 Sample Time 1047

 Job # 4226
 Sampling Event # 03
 Date 3/31/15

SAMPLING NOTES

3/30/15

 Initial Depth to Water 10.51 set Measurement Point TOR
 Final Depth to Water _____ feet Well Depth 15.00 feet
 Screen Length 10 feet Pump Intake Depth _____
 Total Volume Purged 2.2 gallons PID Well Head _____

 Well Diameter 2"
 Well Integrity:
 Cap
 Casing
 Locked
 Collar

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
 Volume of Water in casing - 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1050	10.57	-	9.2	7.03	1234	41.8	1.00	198.6	

 Purge Observations: Turbia, No odor
 Purge Water Containerized: No-per DEC

EQUIPMENT DOCUMENTATION

 Type of Pump: NA - sample by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020

Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	✓

LOCATION NOTES

 Signature: AC
 Checked By: _____

Groundwater Sampling Field Record

Project Name Scio St BCP Site
 Location ID MWS
 Activity Time 1057

Field Sample ID MWS-033115
 Sample Time 1104

Job # 4226
 Sampling Event # 03
 Date 3-31-15

SAMPLING NOTES

Initial Depth to Water ³¹³⁰¹¹⁵ 6.34 feet
 Final Depth to Water _____ feet
 Screen Length 10 feet
 Total Volume Purged 4.5 gallons
 Measurement Point TOR
 Well Depth 15.00 feet
 Pump Intake Depth _____
 PID Well Head _____

Well Diameter 2"
 Well Integrity:
 Cap
 Casing
 Locked
 Collar

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]

Volume of Water in casing - 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1057	6.40	-	5.9	7.22	19.41	71.2	1.90	169.0	

Purge Observations: no odor, turbid.
 Purge Water Containerized: no per MUSEC

EQUIPMENT DOCUMENTATION

Type of Pump: NA - sample by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020

Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	<input checked="" type="checkbox"/>

LOCATION NOTES

Signature: AC
 Checked By: _____

Groundwater Sampling Field Record

 Project Name Scio St BCP Site
 Location ID MW7
 Activity Time 1114

 Field Sample ID MW7-03315
 Sample Time 1118

 Job # 4226
 Sampling Event # 03
 Date 3/31/15

SAMPLING NOTES

 Initial Depth to Water 7.62 feet Measurement Point TOR
 Final Depth to Water _____ feet Well Depth 16.58 feet
 Screen Length 10 feet Pump Intake Depth _____
 Total Volume Purged 4 gallons PID Well Head _____

 Well Diameter 2"
 Well Integrity:
 Cap
 Casing
 Locked
 Collar

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
 Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1114	7.72	—	7.4	7.10	16.59	66.9	2.39	1641	

 Purge Observations: no odor, turbid
 Purge Water Containerized: no per NYSDDEC

EQUIPMENT DOCUMENTATION

 Type of Pump: NA – sample by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020

Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	✓

LOCATION NOTES

 Signature: Ac
 Checked By: _____

Groundwater Sampling Field Record

 Project Name Scio St BCP Site
 Location ID MW-8
 Activity Time 1128

 Field Sample ID MW8-03215
 Sample Time 1136

 Job # 4226
 Sampling Event # 03
 Date 3/31/15

SAMPLING NOTES

 Initial Depth to Water 7.98 feet Measurement Point TOR
 Final Depth to Water _____ feet Well Depth 17.55 feet
 Screen Length 10 feet Pump Intake Depth _____
 Total Volume Purged 5 gallons PID Well Head _____

 Well Diameter 2
 Well Integrity:
 Cap
 Casing
 Locked
 Collar

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]

Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1134	7.97	-	7.2	7.09	7.70	11.23	4.12	-547	

 Purge Observations: STRONG gasoline odor, low turbidity
 Purge Water Containerized: no per MYS DEC

EQUIPMENT DOCUMENTATION

 Type of Pump: NA – sample by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020

Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	<input checked="" type="checkbox"/>

LOCATION NOTES

 Signature: AC
 Checked By: _____

Groundwater Sampling Field Record

 Project Name Scio St BCP Site
 Location ID _____
 Activity Time _____

 Field Sample ID IP POINTS
 Sample Time (P. 1)

 Job # 4226
 Sampling Event # _____
 Date 3/31/15

SAMPLING NOTES

 Initial Depth to Water _____ feet Measurement Point TOR _____
 Final Depth to Water _____ feet Well Depth _____ feet
 Screen Length _____ feet Pump Intake Depth _____
 Total Volume Purged _____ gallons PID Well Head _____
 [purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
 Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth
 Well Diameter _____
 Well Integrity: _____
 Cap _____
 Casing _____
 Locked _____
 Collar _____

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	(TURBIDITY) Comments
1152	IP 1		6.4	8.43	29.77	OR	1.50	96.5	OVER RANGE
	IP 2		7.3	7.45	25.40	2008	2.71	103.3	AU
	IP 3		8.1	7.19	14.00	118	1.87	100.1	NTU
	IP 4		7.0	7.35	27.71	2587	1.19	99.8	AU
	IP 5		7.3	7.49	27.43	50.0	2.24	101.3	NTU
	IP 6		6.8	7.50	25.44	17.2	2.33	107.1	NTU
	IP 7		7.6	7.36	17.14	794	1.90	98.7	AU
	IP 8		8.1	7.22	14.62	1784	1.56	50.6	AU
	IP 9		6.9	7.35	26.29	1461	3.35	103.8	AU
	IP 10		6.5	6.79	12.34	42	3.49	27.9	NTU
	IP 11		6.3	7.44	25.23	22.1	2.65	35.1	NTU
	IP 12		6.9	7.69	29.63	1259	2.09	45.5	AU

 Purge Observations: IP 8 - GASOLINE OOR, DARK GREY
 Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

 Type of Pump: NA - sample by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	

LOCATION NOTES

 Signature: _____
 Checked By: _____

Groundwater Sampling Field Record

 Project Name Scio St BCP Site
 Location ID _____
 Activity Time _____

 Field Sample ID 1P POINTS
 Sample Time (P.2)

 Job # 4226
 Sampling Event # _____
 Date 3-31-15

SAMPLING NOTES

 Initial Depth to Water _____ feet Measurement Point TOR Well Diameter _____
 Final Depth to Water _____ feet Well Depth _____ feet Well Integrity: _____
 Screen Length _____ feet Pump Intake Depth _____ Cap _____
 Total Volume Purged _____ gallons PID Well Head _____ Casing _____
 [purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter] Locked _____
 Volume of Water in casing - 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth Collar _____

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	(TURBIDITY) Comments
1125	10.13		7.4	7.50	26.91	OR	2.44	61.6	OVER RANGE
	10.14		7.6	7.48	29.87	OR	2.42	70.4	OVER RANGE
	10.15		7.4	7.04	20.06	1112	3.03	77.8	AU
	10.16		7.9	7.17	14.70	OR	0.95	10.1	OVER RANGE

 Purge Observations: _____
 Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

 Type of Pump: NA - sample by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020 Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	

LOCATION NOTES

 Signature: _____
 Checked By: _____

Groundwater Sampling Field Record

 Project Name Scio St BCP Site
 Location ID MW-5
 Activity Time 6/15/15

 Field Sample ID MW5-061615
 Sample Time 0855

 Job # 4226
 Sampling Event # 04
 Date 06/15/15

SAMPLING NOTES

 Initial Depth to Water 6.48 (6/15/15) feet
 Final Depth to Water _____ feet
 Screen Length 10 feet
 Total Volume Purged _____ gallons
 Measurement Point TOR
 Well Depth _____ feet
 Pump Intake Depth _____
 PID Well Head _____

 Well Diameter 2"
 Well Integrity:
 Cap _____
 Casing _____
 Locked _____
 Collar _____

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
 Volume of Water in casing - 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
0859	7.12	-	19.1	7.91	12.85	0	0.315	95.8	

 Purge Observations: _____
 Purge Water Containerized: _____
Slight Sulphur Smell very turbid, due to rain excess amount of water infiltrating into top of well

EQUIPMENT DOCUMENTATION

 Type of Pump: NA - sample by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020

Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	✓

LOCATION NOTES

 Signature: _____
 Checked By: _____

Groundwater Sampling Field Record

 Project Name Scio St BCP Site
 Location ID _____
 Activity Time _____

 Field Sample ID 1P Points
 Sample Time (page 1)

 Job # 4226
 Sampling Event # ---
 Date 6/16/15

SAMPLING NOTES

 Initial Depth to Water _____ feet Measurement Point TOR Well Diameter _____
 Final Depth to Water _____ feet Well Depth _____ feet Well Integrity: _____
 Screen Length _____ feet Pump Intake Depth _____ Cap _____
 Total Volume Purged _____ gallons PID Well Head _____ Casing _____
 [purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter] Locked _____
 Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth Collar _____

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
10:50	1P1	—	16.3	8.14	30.27	over range	0.85	37.0	↑ Turbidity
10:40	1P2	—	15.4	7.46	23.93	over range	2.08	65.2	↑ Turbidity
11:39	1P3	—	16.3	7.50	28.47	625 AU	1.75	65.7	
11:15	1P4	—	16.3	7.50	30.27	-49	0.509	67.3	
11:23	1P5	—	17.1	7.55	24.82	1952 AU	1.74	45.2	
11:52	1P6	—	15.5	7.15	16.59	687 AU	2.22	68.1	
11:48	1P7	—	18.1	7.30	17.53	875 AU	2.22	65.7	
11:55	1P8	—	17.3	14.09 → 7.22	491	491	1.32	60.0	
11:29	1P9	—	16.6	7.38	22.28	1637 AU	2.30	66.7	
10:43	1P10	—	14.9	7.01	6.98	over range	3.49	-64.1	Gasoline odor / Gray
12:15	1P11	—	14.8	7.18	26.51	1319 AU	2.58	62.1	
10:53	1P12	—	21.2	8.01	7.65	2266 AU	0.309	35.7	

 Purge Observations: _____
 Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

 Type of Pump: NA – sample by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus, LaMotte 2020

Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	

LOCATION NOTES

 Signature: _____
 Checked By: _____

Groundwater Sampling Field Record



Project Name Scio St BCP Site
 Location ID MW-2
 Activity Time 0925

Field Sample ID MW2-092315
 Sample Time 0930

Job # 4226
 Sampling Event # 05
 Date 9/23/15

SAMPLING NOTES

Initial Depth to Water 11.72 feet Measurement Point TOR
 Final Depth to Water _____ feet Well Depth _____ feet
 Screen Length _____ feet Pump Intake Depth _____
 Total Volume Purged ~5 gallons PID Well Head _____

Well Diameter 2"
 Well Integrity:
 Cap
 Casing
 Locked
 Collar

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]

Volume of Water in casing - 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
0925			17.7	7.07	13.45	45.4	0.86	67.6	

Purge Observations: Turbid, no odor
 Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

Type of Pump: NA - Sampled by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus; LaMotte 2020

Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	<input checked="" type="checkbox"/>

LOCATION NOTES

Signature: _____
 Checked By: _____

Groundwater Sampling Field Record



Project Name Scio St BCP Site
 Location ID MW-4
 Activity Time 0945

Field Sample ID MW4-092315
 Sample Time 0950

Job # 4226
 Sampling Event # 05
 Date 9/23/15

SAMPLING NOTES

Initial Depth to Water 7.93 feet
 Final Depth to Water _____ feet
 Screen Length _____ feet
 Total Volume Purged ~ 5 gallons
 Measurement Point TOR
 Well Depth _____ feet
 Pump Intake Depth _____
 PID Well Head _____

Well Diameter 2"
 Well Integrity:
 Cap
 Casing
 Locked
 Collar

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
 Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
0945	-	-	18.2	7.32	15.02	18.7	0.84	97.4	

Purge Observations: Clear, no odor
 Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

Type of Pump: NA – Sampled by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus; LaMotte 2020

Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	<input checked="" type="checkbox"/>

LOCATION NOTES

Signature: _____
 Checked By: _____

Groundwater Sampling Field Record

 Project Name Scio St BCP Site
 Location ID MW-5
 Activity Time 0905

 Field Sample ID MW5-092315
 Sample Time 0910

 Job # 4226
 Sampling Event # 05
 Date 9/23/15

SAMPLING NOTES

 Initial Depth to Water 7.58 feet
 Final Depth to Water _____ feet
 Screen Length _____ feet
 Total Volume Purged ~5 gallons
 Measurement Point TOR
 Well Depth _____ feet
 Pump Intake Depth _____
 PID Well Head _____

 Well Diameter 2"
 Well Integrity:
 Cap
 Casing
 Locked
 Collar

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]

Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
0910			19.5	6.89	7.99	65	1.11	171.4	

 Purge Observations: Turbid, no odor
 Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

 Type of Pump: NA – Sampled by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus; LaMotte 2020

Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	<input checked="" type="checkbox"/>

LOCATION NOTES

 Signature: _____
 Checked By: _____

Groundwater Sampling Field Record



Project Name Scio St BCP Site
 Location ID MW-6
 Activity Time 0915

Field Sample ID MW6-092315
 Sample Time 0920

Job # 4226
 Sampling Event # 05
 Date 9/23/15

SAMPLING NOTES

Initial Depth to Water 9.21 feet
 Final Depth to Water _____ feet
 Screen Length _____ feet
 Total Volume Purged ~5 gallons
 Measurement Point TOR
 Well Depth _____ feet
 Pump Intake Depth _____
 PID Well Head _____

Well Diameter 2"
 Well Integrity:
 Cap
 Casing
 Locked
 Collar

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]

Volume of Water in casing - 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
0915			18.2	6.89	2.86	98.4	1.32	23.4	

Purge Observations: Turbid, no slight odor
 Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

Type of Pump: NA - Sampled by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus; LaMotte 2020

Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	<input checked="" type="checkbox"/>

LOCATION NOTES

Signature: _____
 Checked By: _____

Groundwater Sampling Field Record



Project Name Scio St BCP Site
 Location ID MW-7
 Activity Time 0935

Field Sample ID MW7-092315
 Sample Time 0940

Job # 4226
 Sampling Event # 05
 Date 9/23/15

SAMPLING NOTES

Initial Depth to Water 8.91 feet Measurement Point TOR
 Final Depth to Water _____ feet Well Depth _____ feet
 Screen Length _____ feet Pump Intake Depth _____
 Total Volume Purged ~5 gallons PID Well Head _____

Well Diameter 2"
 Well Integrity:
 Cap
 Casing
 Locked
 Collar

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]

Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
<u>0935</u>			<u>17.9</u>	<u>6.89</u>	<u>9.30</u>	<u>20.7</u>	<u>2.21</u>	<u>99.6</u>	

Purge Observations: Clear, no odor
 Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

Type of Pump: NA – Sampled by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus; LaMotte 2020

Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	<u>2 x 40 ml</u>	<input checked="" type="checkbox"/>

LOCATION NOTES

Buro Dup @ this location

Signature: _____
 Checked By: _____

Groundwater Sampling Field Record



Project Name Scio St BCP Site
 Location ID MW-8
 Activity Time 1005

Field Sample ID MW8-092315
 Sample Time 1010

Job # 4226
 Sampling Event # 05
 Date 9/23/15

SAMPLING NOTES

Initial Depth to Water 9.00 feet
 Final Depth to Water _____ feet
 Screen Length _____ feet
 Total Volume Purged ~5 gallons
 Measurement Point TOR
 Well Depth _____ feet
 Pump Intake Depth _____
 PID Well Head _____

Well Diameter 2"
 Well Integrity:
 Cap
 Casing
 Locked
 Collar

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]

Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1005	-	-	18.5	7.33	1.26	1.27	484	-165.5	

Purge Observations: Clear, strong petroleum odor
 Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

Type of Pump: NA – Sampled by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus; LaMotte 2020

Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	<input checked="" type="checkbox"/>

LOCATION NOTES

Signature: _____
 Checked By: _____

Groundwater Sampling Field Record

 Project Name Scio St BCP Site
 Location ID MW-9
 Activity Time 0955

 Field Sample ID MW9-092315
 Sample Time 1000

 Job # 4226
 Sampling Event # 05
 Date 9/23/15

SAMPLING NOTES

 Initial Depth to Water 8.58 feet
 Final Depth to Water _____ feet
 Screen Length _____ feet
 Total Volume Purged ~5 gallons
 Measurement Point TOR
 Well Depth _____ feet
 Pump Intake Depth _____
 PID Well Head _____

 Well Diameter 2"
 Well Integrity:
 Cap
 Casing
 Locked
 Collar

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
 Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
0955			18.0	7.15	2.12	13.7	4.06	11.6	

 Purge Observations: Clear, slight petroleum odor
 Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

 Type of Pump: NA – Sampled by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus; LaMotte 2020

Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	<input checked="" type="checkbox"/>

LOCATION NOTES

 Signature: _____
 Checked By: _____

Groundwater Sampling Field Record



Project Name Scio St BCP Site
 Location ID _____
 Activity Time _____

Field Sample ID IP Points
 Sample Time (page 1)

Job # 4226
 Sampling Event # 05
 Date 9/23/15

SAMPLING NOTES

Initial Depth to Water _____ feet Measurement Point TOR Well Diameter _____
 Final Depth to Water _____ feet Well Depth _____ feet Well Integrity: _____
 Screen Length _____ feet Pump Intake Depth _____ Cap _____
 Total Volume Purged _____ gallons PID Well Head _____ Casing _____
 [purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter] Locked _____
 Volume of Water in casing - 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth Collar _____

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1043	IP 1	-	19.2	7.28	20.05	NA*	1.32	6.9	very turbid*
1038	IP 2	-	18.4	7.17	6.38	48 NTU	1.80	-64.2	turbid
1030	IP 3	-	18.0	7.27	3.19	618 AU	1.30	-53.8	Turbid slight petrol odor
1045	IP 4	-	19.2	7.36	20.30	NA*	0.80	+20.7	very turbid*
1048	IP 5	-	19.0	7.37	23.69	NA*	1.58	28.5	
1051	IP 6	-	18.6	7.43	19.76	73.2	2.18	8.2	
1056	IP 7	-	18.6	7.18	15.52	NA*	2.54	2.1	very turbid
1020	IP 8	-	18.8	7.34	5.12	NA*	0.92	-141.9	very turbid* heavy petrol odor
1101	IP 9	-	18.2	7.32	6.03	NA*	2.19	-49.5	very turbid
1106	IP 10	-	17.5	7.25	2.66	NA*	3.18	-112.8	very turbid* strong petrol odor
1115	IP 11	-	17.7	7.54	20.20	50.8	2.38	2.9	
1111	IP 12	-	17.6	7.58	16.99	NA*	1.73	-59.8	very turbid*

Purge Observations: _____
 Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

Type of Pump: NA - Sampled by bailer
 Type of Tubing: NA
 Type of Water Quality Meter: YSI Pro Plus; LaMotte 2020 Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	

LOCATION NOTES

Signature: _____
 Checked By: _____



Lab Project ID: 144103

Client: Lu Engineers, Inc.
Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: MW-05-09-18-14

Lab Sample ID: 144103-01

Date Sampled: 9/18/2014

Matrix: Groundwater

Date Received: 9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/24/2014
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/24/2014
Benzene	< 0.700	ug/L		9/24/2014
Ethylbenzene	< 2.00	ug/L		9/24/2014
Isopropylbenzene	< 2.00	ug/L		9/24/2014
m,p-Xylene	< 2.00	ug/L		9/24/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/24/2014
Naphthalene	< 5.00	ug/L		9/24/2014
n-Butylbenzene	< 2.00	ug/L		9/24/2014
n-Propylbenzene	< 2.00	ug/L		9/24/2014
o-Xylene	< 2.00	ug/L		9/24/2014
p-Isopropyltoluene	< 2.00	ug/L		9/24/2014
sec-Butylbenzene	< 2.00	ug/L		9/24/2014
tert-Butylbenzene	< 2.00	ug/L		9/24/2014
Toluene	< 2.00	ug/L		9/24/2014
Method Reference(s):	EPA 8260C			
	EPA 5030			
Data File:	x17099.D			

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 Wednesday, October 01, 2014



Lab Project ID: 144103

Client: Lu Engineers, Inc.
Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: MW-06-09-18-14
Lab Sample ID: 144103-02 Date Sampled: 9/18/2014
Matrix: Groundwater Date Received: 9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/24/2014
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/24/2014
Benzene	< 0.700	ug/L		9/24/2014
Ethylbenzene	< 2.00	ug/L		9/24/2014
Isopropylbenzene	< 2.00	ug/L		9/24/2014
m,p-Xylene	< 2.00	ug/L		9/24/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/24/2014
Naphthalene	< 5.00	ug/L		9/24/2014
n-Butylbenzene	< 2.00	ug/L		9/24/2014
n-Propylbenzene	< 2.00	ug/L		9/24/2014
o-Xylene	< 2.00	ug/L		9/24/2014
p-Isopropyltoluene	< 2.00	ug/L		9/24/2014
sec-Butylbenzene	< 2.00	ug/L		9/24/2014
tert-Butylbenzene	< 2.00	ug/L		9/24/2014
Toluene	< 2.00	ug/L		9/24/2014
Method Reference(s):	EPA 8260C			
	EPA 5030			
Data File:	x17098.D			

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Lab Project ID: 144103

Client: Lu Engineers, Inc.
Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: MW-02-09-18-14

Lab Sample ID: 144103-03

Date Sampled: 9/18/2014

Matrix: Groundwater

Date Received: 9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/24/2014
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/24/2014
Benzene	< 0.700	ug/L		9/24/2014
Ethylbenzene	< 2.00	ug/L		9/24/2014
Isopropylbenzene	< 2.00	ug/L		9/24/2014
m,p-Xylene	< 2.00	ug/L		9/24/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/24/2014
Naphthalene	< 5.00	ug/L		9/24/2014
n-Butylbenzene	< 2.00	ug/L		9/24/2014
n-Propylbenzene	< 2.00	ug/L		9/24/2014
o-Xylene	< 2.00	ug/L		9/24/2014
p-Isopropyltoluene	< 2.00	ug/L		9/24/2014
sec-Butylbenzene	< 2.00	ug/L		9/24/2014
tert-Butylbenzene	< 2.00	ug/L		9/24/2014
Toluene	< 2.00	ug/L		9/24/2014
Method Reference(s):	EPA 8260C			
	EPA 5030			
Data File:	x17097.D			

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 Wednesday, October 01, 2014



Lab Project ID: 144103

Client: Lu Engineers, Inc.
Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: MW-08-09-18-14
Lab Sample ID: 144103-04
Matrix: Groundwater

Date Sampled: 9/18/2014
Date Received: 9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,2,4-Trimethylbenzene	41.8	ug/L		9/25/2014
1,3,5-Trimethylbenzene	3.15	ug/L		9/25/2014
Benzene	8.74	ug/L		9/25/2014
Ethylbenzene	60.8	ug/L		9/25/2014
Isopropylbenzene	6.71	ug/L		9/25/2014
m,p-Xylene	53.7	ug/L		9/25/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/25/2014
Naphthalene	9.24	ug/L		9/25/2014
n-Butylbenzene	1.59	ug/L	J	9/25/2014
n-Propylbenzene	13.3	ug/L		9/25/2014
o-Xylene	4.21	ug/L		9/25/2014
p-Isopropyltoluene	< 2.00	ug/L		9/25/2014
sec-Butylbenzene	< 2.00	ug/L		9/25/2014
tert-Butylbenzene	< 2.00	ug/L		9/25/2014
Toluene	4.90	ug/L		9/25/2014
Method Reference(s):	EPA 8260C EPA 5030			
Data File:	x17115.D			

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 Wednesday, October 01, 2014



Lab Project ID: 144103

Client: Lu Engineers, Inc.
Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: MW-07-09-18-14

Lab Sample ID: 144103-05

Date Sampled: 9/18/2014

Matrix: Groundwater

Date Received: 9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/24/2014
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/24/2014
Benzene	< 0.700	ug/L		9/24/2014
Ethylbenzene	< 2.00	ug/L		9/24/2014
Isopropylbenzene	< 2.00	ug/L		9/24/2014
m,p-Xylene	< 2.00	ug/L		9/24/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/24/2014
Naphthalene	< 5.00	ug/L		9/24/2014
n-Butylbenzene	< 2.00	ug/L		9/24/2014
n-Propylbenzene	< 2.00	ug/L		9/24/2014
o-Xylene	< 2.00	ug/L		9/24/2014
p-Isopropyltoluene	< 2.00	ug/L		9/24/2014
sec-Butylbenzene	< 2.00	ug/L		9/24/2014
tert-Butylbenzene	< 2.00	ug/L		9/24/2014
Toluene	< 2.00	ug/L		9/24/2014
Method Reference(s):	EPA 8260C			
	EPA 5030			
Data File:	x17095.D			

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 Wednesday, October 01, 2014



Lab Project ID: 144103

Client: Lu Engineers, Inc.
Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: MW-09-09-18-14
Lab Sample ID: 144103-06
Matrix: Groundwater

Date Sampled: 9/18/2014
Date Received: 9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/25/2014
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/25/2014
Benzene	1.53	ug/L		9/25/2014
Ethylbenzene	5.99	ug/L		9/25/2014
Isopropylbenzene	6.05	ug/L		9/25/2014
m,p-Xylene	1.02	ug/L	J	9/25/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/25/2014
Naphthalene	< 5.00	ug/L		9/25/2014
n-Butylbenzene	1.38	ug/L	J	9/25/2014
n-Propylbenzene	10.3	ug/L		9/25/2014
o-Xylene	< 2.00	ug/L		9/25/2014
p-Isopropyltoluene	< 2.00	ug/L		9/25/2014
sec-Butylbenzene	1.51	ug/L	J	9/25/2014
tert-Butylbenzene	< 2.00	ug/L		9/25/2014
Toluene	< 2.00	ug/L		9/25/2014
Method Reference(s):	EPA 8260C			
	EPA 5030			
Data File:	x17114.D			

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Lab Project ID: 144103

Client: Lu Engineers, Inc.
Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: MW-04-09-18-14
Lab Sample ID: 144103-07
Matrix: Groundwater

Date Sampled: 9/18/2014
Date Received: 9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/24/2014
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/24/2014
Benzene	0.409	ug/L	J	9/24/2014
Ethylbenzene	< 2.00	ug/L		9/24/2014
Isopropylbenzene	< 2.00	ug/L		9/24/2014
m,p-Xylene	< 2.00	ug/L		9/24/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/24/2014
Naphthalene	< 5.00	ug/L		9/24/2014
n-Butylbenzene	< 2.00	ug/L		9/24/2014
n-Propylbenzene	< 2.00	ug/L		9/24/2014
o-Xylene	< 2.00	ug/L		9/24/2014
p-Isopropyltoluene	< 2.00	ug/L		9/24/2014
sec-Butylbenzene	< 2.00	ug/L		9/24/2014
tert-Butylbenzene	< 2.00	ug/L		9/24/2014
Toluene	< 2.00	ug/L		9/24/2014
Method Reference(s):	EPA 8260C			
	EPA 5030			
Data File:	x17093.D			

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.



Lab Project ID: 144103

Client: Lu Engineers, Inc.
Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: Blind-DUP-07-18-14
Lab Sample ID: 144103-08
Matrix: Groundwater

Date Sampled: 9/18/2014
Date Received: 9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/24/2014
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/24/2014
Benzene	< 0.700	ug/L		9/24/2014
Ethylbenzene	< 2.00	ug/L		9/24/2014
Isopropylbenzene	< 2.00	ug/L		9/24/2014
m,p-Xylene	< 2.00	ug/L		9/24/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/24/2014
Naphthalene	< 5.00	ug/L		9/24/2014
n-Butylbenzene	< 2.00	ug/L		9/24/2014
n-Propylbenzene	< 2.00	ug/L		9/24/2014
o-Xylene	< 2.00	ug/L		9/24/2014
p-Isopropyltoluene	< 2.00	ug/L		9/24/2014
sec-Butylbenzene	< 2.00	ug/L		9/24/2014
tert-Butylbenzene	< 2.00	ug/L		9/24/2014
Toluene	< 2.00	ug/L		9/24/2014
Method Reference(s):	EPA 8260C			
	EPA 5030			
Data File:	x17092.D			

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.



Lab Project ID: 144103

Client: Lu Engineers, Inc.
Project Reference: City of Roch. 4226 Scio St.

Sample Identifier: Trip Blank T-540
Lab Sample ID: 144103-09 Date Sampled: 9/18/2014
Matrix: Groundwater Date Received: 9/18/2014

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/24/2014
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/24/2014
Benzene	< 0.700	ug/L		9/24/2014
Ethylbenzene	< 2.00	ug/L		9/24/2014
Isopropylbenzene	< 2.00	ug/L		9/24/2014
m,p-Xylene	< 2.00	ug/L		9/24/2014
Methyl tert-butyl Ether	< 2.00	ug/L		9/24/2014
Naphthalene	< 5.00	ug/L		9/24/2014
n-Butylbenzene	< 2.00	ug/L		9/24/2014
n-Propylbenzene	< 2.00	ug/L		9/24/2014
o-Xylene	< 2.00	ug/L		9/24/2014
p-Isopropyltoluene	< 2.00	ug/L		9/24/2014
sec-Butylbenzene	< 2.00	ug/L		9/24/2014
tert-Butylbenzene	< 2.00	ug/L		9/24/2014
Toluene	< 2.00	ug/L		9/24/2014
Method Reference(s):	EPA 8260C			
	EPA 5030			
Data File:	x17091.D			

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Method Blank Report

Client: Lu Engineers, Inc.
Project Reference: City of Roch. 4226 Scio St.
Lab Project ID: 144103
SDG #: 4103-01
Matrix: Groundwater

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,2,4-Trimethylbenzene	<2.00	ug/L		9/24/2014
1,3,5-Trimethylbenzene	<2.00	ug/L		9/24/2014
Benzene	<0.700	ug/L		9/24/2014
Ethylbenzene	<2.00	ug/L		9/24/2014
Isopropylbenzene	<2.00	ug/L		9/24/2014
m,p-Xylene	<2.00	ug/L		9/24/2014
Methyl tert-butyl Ether	<2.00	ug/L		9/24/2014
Naphthalene	<5.00	ug/L		9/24/2014
n-Butylbenzene	<2.00	ug/L		9/24/2014
n-Propylbenzene	<2.00	ug/L		9/24/2014
o-Xylene	<2.00	ug/L		9/24/2014
p-Isopropyltoluene	<2.00	ug/L		9/24/2014
sec-Butylbenzene	<2.00	ug/L		9/24/2014
tert-Butylbenzene	<2.00	ug/L		9/24/2014
Toluene	<2.00	ug/L		9/24/2014

Method Reference(s): EPA 8260C
EPA 5030
Data File: x17075.D
QC Batch ID: voaw092414
QC Number: 1



PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Lu Engineers, Inc.

Project Reference: City of Roch. 4226 Scio St.

Lab Project ID: 144103

SDG #: 4103-01

Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Benzene	50.0	ug/L	55.0	110	85.2 - 115		9/24/2014
Ethylbenzene	50.0	ug/L	49.8	99.7	82.2 - 113		9/24/2014
Toluene	50.0	ug/L	52.1	104	84 - 112		9/24/2014

Method Reference(s): EPA 8260C

EPA 5030

Data File: x17074.D

QC Number: 1

QC Batch ID: v0aw092414

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Method Blank Report

Client: Lu Engineers, Inc.
Project Reference: City of Roch. 4226 Scio St.
Lab Project ID: 144103
SDG #: 4103-01
Matrix: Groundwater

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,2,4-Trimethylbenzene	<2.00	ug/L		9/25/2014
1,3,5-Trimethylbenzene	<2.00	ug/L		9/25/2014
Benzene	<0.700	ug/L		9/25/2014
Ethylbenzene	<2.00	ug/L		9/25/2014
Isopropylbenzene	<2.00	ug/L		9/25/2014
m,p-Xylene	<2.00	ug/L		9/25/2014
Methyl tert-butyl Ether	<2.00	ug/L		9/25/2014
Naphthalene	<5.00	ug/L		9/25/2014
n-Butylbenzene	<2.00	ug/L		9/25/2014
n-Propylbenzene	<2.00	ug/L		9/25/2014
o-Xylene	<2.00	ug/L		9/25/2014
p-Isopropyltoluene	<2.00	ug/L		9/25/2014
sec-Butylbenzene	<2.00	ug/L		9/25/2014
tert-Butylbenzene	<2.00	ug/L		9/25/2014
Toluene	<2.00	ug/L		9/25/2014

Method Reference(s): EPA 8260C
EPA 5030
Data File: x17107.D
QC Batch ID: voaw092514
QC Number: 1

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Report Prepared Wednesday, October 01, 2014



PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Lu Engineers, Inc.
Project Reference: City of Roch. 4226 Scio St.
Lab Project ID: 144103
SDG #: 4103-01
Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Benzene	50.0	ug/L	55.8	112	85.2 - 115		9/25/2014
Ethylbenzene	50.0	ug/L	51.0	102	82.2 - 113		9/25/2014
Toluene	50.0	ug/L	53.1	106	84 - 112		9/25/2014

Method Reference(s): EPA 8260C
EPA 5030
Data File: x17106.D
QC Number: 1
QC Batch ID: voaw092514

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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.

"V" = Sample concentration is >10 times the spike. No meaningful Spike Recovery can be calculated.

"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.

CHAIN OF CUSTODY



PROJECT REFERENCE
 City of Rockwell
 422c
 State St

REPORT TO: CLIENT: LU ENGINEERS		INVOICE TO:	
ADDRESS: 175 Sullys Dr. STE 202		ADDRESS:	
CITY: PITTSFORD NY	STATE: NY	CITY:	STATE:
PHONE: (585) 385-7417	ZIP: 14534	PHONE: SAME	ZIP:
ATTN: G. Andrus / Jane Forster / A.C. Greenhouse		ATTN:	
Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid		WA - Water WG - Groundwater	
DW - Drinking Water WW - Wastewater		SO - Soil SL - Sludge	
SD - Solid PT - Paint		WP - Wipe CK - Caulk AR - Air	
LAB PROJECT ID 144103		Quotation #:	
Email: gregandrus@luengineers.com For the City of Rochester, NY address: 422c State St, Pittsford, NY			

DATE COLLECTED	TIME COLLECTED	C O M P O S I T E	G R A B	SAMPLE IDENTIFIER	M C A T D R I S	N O N B A I R E S	STARS VOC	REMARKS	PARADIGM LAB SAMPLE NUMBER
1 9/18/14	1130	X	X	MW-05-09-18-14	WG	2	X		01
2	1207	X	X	MW-06-09-18-14	WG	2	X		02
3	1235	X	X	MW-02-09-18-14	WG	2	X		03
4	1347	X	X	MW-08-09-18-14	WG	2	X		04
5	1410	X	X	MW-07-09-18-14	WG	2	X		05
6	1445	X	X	MW-09-09-18-14	WG	2	X		06
7	1520	X	X	MW-04-09-18-14	WG	2	X		07
8	1130	X	X	MW-05-09-18-14	WG	2	X		08
9	1130	X	X	MW-05-09-18-14	WG	2	X		09
10		X	X	Blind-DUP-09-18-14	WG	2	X		08

Turnaround Time

Availability contingent upon lab approval; additional fees may apply.

Report Supplements

Standard 5 day Batch QC Basic EDD

Rush 3 day Category A ASQ NYSDEC EDD

Rush 2 day Category B

Rush 1 day

Other Other EDD

please indicate: 10 DAY please indicate:

Chain of Custody

Sampled By: [Signature] Date/Time: 9/18/14 1530

Received By: [Signature] Date/Time: 9/18/14 1530

Retrieved By: [Signature] Date/Time: 9/18/14 1530

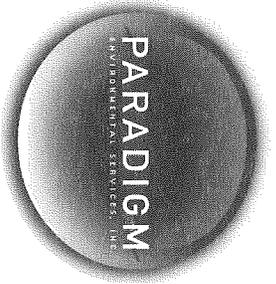
Received @ Lab By: [Signature] Date/Time: 9/18/14 1550

PI.F.

Total Cost: \$159.16/14

20°C 1600 9/18/14. custody seals with client delivered. 159.16/14

10883



179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

2013

CHAIN OF CUSTODY

PROJECT REFERENCE

REPORT TO:	CLIENT:	INVOICE TO:	LAB PROJECT ID
ADDRESS:	ADDRESS:	ADDRESS:	144103
CITY:	CITY:	CITY:	Quotation #:
STATE:	STATE:	STATE:	Email:
ZIP:	ZIP:	ZIP:	
PHONE:	PHONE:	PHONE:	
ATTN:	ATTN:	ATTN:	

Matrix Codes:
 AQ - Aqueous Liquid WA - Water DW - Drinking Water SO - Soil SD - Solid
 NQ - Non-Aqueous Liquid WG - Groundwater WW - Wastewater SL - Sludge PT - Paint
 WP - Wipe OL - Oil
 CK - Caulk AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPONENTS	GRADES	SAMPLE IDENTIFIER	MATERIALS	CONTAMINANTS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1 9/18/14				T-540	WC	1	X STARS VIX	09
2								
3								
4								
5								
6								
7								
8								
9								
10								

Turnaround Time

Availability contingent upon lab approval; additional fees may apply.

Standard 5 day	<input type="checkbox"/>	Batch QC	<input type="checkbox"/>	Basic EDD	<input type="checkbox"/>
Rush 3 day	<input type="checkbox"/>	Category A	<input type="checkbox"/>	NYSDEC EDD	<input type="checkbox"/>
Rush 2 day	<input type="checkbox"/>	Category B	<input type="checkbox"/>		
Rush 1 day	<input type="checkbox"/>	Other	<input type="checkbox"/>	Other EDD	<input type="checkbox"/>
Other	<input type="checkbox"/>	Other	<input type="checkbox"/>	Other EDD	<input type="checkbox"/>

Report Supplements

Availability contingent upon lab approval; additional fees may apply.

Standard 5 day	<input type="checkbox"/>	Batch QC	<input type="checkbox"/>	Basic EDD	<input type="checkbox"/>
Rush 3 day	<input type="checkbox"/>	Category A	<input type="checkbox"/>	NYSDEC EDD	<input type="checkbox"/>
Rush 2 day	<input type="checkbox"/>	Category B	<input type="checkbox"/>		
Rush 1 day	<input type="checkbox"/>	Other	<input type="checkbox"/>	Other EDD	<input type="checkbox"/>
Other	<input type="checkbox"/>	Other	<input type="checkbox"/>	Other EDD	<input type="checkbox"/>

Sampled By _____ Date/Time _____

Total Cost: _____

Relinquished By _____ Date/Time _____

Received By _____ Date/Time _____

P.I.F. _____

Received @ Lab By _____ Date/Time _____



Chain of Custody Supplement

Client: LU Completed by: Molly Vail
 Lab Project ID: 144103 Date: 9/18/14

Sample Condition Requirements
 Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Preservation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Temperature	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Comments	<u>20°C @ 1600hrs custody seals N/A client delivered OK to run out of temp per KM</u>		
Sufficient Sample Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Lu Engineers, Inc.

For Lab Project ID

145526

Referencing

City of Rochester, 62-64 Scio St.

Prepared

Tuesday, December 30, 2014

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

A handwritten signature in black ink, consisting of several overlapping, slanted strokes, positioned above a horizontal line.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

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Page 1 of 12

Report Prepared Tuesday, December 30, 2014



Lab Project ID: 145526

Client: Lu Engineers, Inc.

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW02_12-22-14

Lab Sample ID: 145526-01

Date Sampled: 12/22/2014

Matrix: Water

Date Received: 12/22/2014

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		12/23/2014 19:49
1,3,5-Trimethylbenzene	< 2.00	ug/L		12/23/2014 19:49
Benzene	< 0.700	ug/L		12/23/2014 19:49
Ethylbenzene	< 2.00	ug/L		12/23/2014 19:49
Isopropylbenzene	< 2.00	ug/L		12/23/2014 19:49
m,p-Xylene	< 2.00	ug/L		12/23/2014 19:49
Methyl tert-butyl Ether	< 2.00	ug/L		12/23/2014 19:49
Naphthalene	< 5.00	ug/L		12/23/2014 19:49
n-Butylbenzene	< 2.00	ug/L		12/23/2014 19:49
n-Propylbenzene	< 2.00	ug/L		12/23/2014 19:49
o-Xylene	< 2.00	ug/L		12/23/2014 19:49
p-Isopropyltoluene	< 2.00	ug/L		12/23/2014 19:49
sec-Butylbenzene	< 2.00	ug/L		12/23/2014 19:49
tert-Butylbenzene	< 2.00	ug/L		12/23/2014 19:49
Toluene	< 2.00	ug/L		12/23/2014 19:49

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	91.5	85.7 - 112		12/23/2014 19:49
4-Bromofluorobenzene	91.6	86.6 - 110		12/23/2014 19:49
Pentafluorobenzene	94.5	94.6 - 106	*	12/23/2014 19:49
Toluene-D8	95.9	91.8 - 107		12/23/2014 19:49

Method Reference(s): EPA 8260C

EPA 5030

Data File: x19633.D



Lab Project ID: 145526

Client: Lu Engineers, Inc.
Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW04_12-22-14
Lab Sample ID: 145526-02 **Date Sampled:** 12/22/2014
Matrix: Water **Date Received:** 12/22/2014

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		12/23/2014 19:26
1,3,5-Trimethylbenzene	< 2.00	ug/L		12/23/2014 19:26
Benzene	< 0.700	ug/L		12/23/2014 19:26
Ethylbenzene	< 2.00	ug/L		12/23/2014 19:26
Isopropylbenzene	< 2.00	ug/L		12/23/2014 19:26
m,p-Xylene	< 2.00	ug/L		12/23/2014 19:26
Methyl tert-butyl Ether	< 2.00	ug/L		12/23/2014 19:26
Naphthalene	< 5.00	ug/L		12/23/2014 19:26
n-Butylbenzene	< 2.00	ug/L		12/23/2014 19:26
n-Propylbenzene	< 2.00	ug/L		12/23/2014 19:26
o-Xylene	< 2.00	ug/L		12/23/2014 19:26
p-Isopropyltoluene	< 2.00	ug/L		12/23/2014 19:26
sec-Butylbenzene	< 2.00	ug/L		12/23/2014 19:26
tert-Butylbenzene	< 2.00	ug/L		12/23/2014 19:26
Toluene	< 2.00	ug/L		12/23/2014 19:26

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	91.0	85.7 - 112		12/23/2014 19:26
4-Bromofluorobenzene	93.4	86.6 - 110		12/23/2014 19:26
Pentafluorobenzene	96.2	94.6 - 106		12/23/2014 19:26
Toluene-D8	96.6	91.8 - 107		12/23/2014 19:26

Method Reference(s): EPA 8260C
EPA 5030
Data File: x19632.D



Client: Lu Engineers, Inc.

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW06_12-22-14

Lab Sample ID: 145526-03

Date Sampled: 12/22/2014

Matrix: Water

Date Received: 12/22/2014

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		12/24/2014 19:29
1,3,5-Trimethylbenzene	< 2.00	ug/L		12/24/2014 19:29
Benzene	< 0.700	ug/L		12/24/2014 19:29
Ethylbenzene	< 2.00	ug/L		12/24/2014 19:29
Isopropylbenzene	< 2.00	ug/L		12/24/2014 19:29
m,p-Xylene	< 2.00	ug/L		12/24/2014 19:29
Methyl tert-butyl Ether	< 2.00	ug/L		12/24/2014 19:29
Naphthalene	< 5.00	ug/L		12/24/2014 19:29
n-Butylbenzene	< 2.00	ug/L		12/24/2014 19:29
n-Propylbenzene	< 2.00	ug/L		12/24/2014 19:29
o-Xylene	< 2.00	ug/L		12/24/2014 19:29
p-Isopropyltoluene	< 2.00	ug/L		12/24/2014 19:29
sec-Butylbenzene	< 2.00	ug/L		12/24/2014 19:29
tert-Butylbenzene	< 2.00	ug/L		12/24/2014 19:29
Toluene	< 2.00	ug/L		12/24/2014 19:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	90.4	85.7 - 112		12/24/2014 19:29
4-Bromofluorobenzene	92.4	86.6 - 110		12/24/2014 19:29
Pentafluorobenzene	97.1	94.6 - 106		12/24/2014 19:29
Toluene-D8	97.6	91.8 - 107		12/24/2014 19:29

Method Reference(s): EPA 8260C

EPA 5030

Data File: x19692.D



Lab Project ID: 145526

Client: Lu Engineers, Inc.
Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW07_12-22-14
Lab Sample ID: 145526-04 **Date Sampled:** 12/22/2014
Matrix: Water **Date Received:** 12/22/2014

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		12/23/2014 19:02
1,3,5-Trimethylbenzene	< 2.00	ug/L		12/23/2014 19:02
Benzene	< 0.700	ug/L		12/23/2014 19:02
Ethylbenzene	< 2.00	ug/L		12/23/2014 19:02
Isopropylbenzene	< 2.00	ug/L		12/23/2014 19:02
m,p-Xylene	6.01	ug/L		12/23/2014 19:02
Methyl tert-butyl Ether	< 2.00	ug/L		12/23/2014 19:02
Naphthalene	< 5.00	ug/L		12/23/2014 19:02
n-Butylbenzene	< 2.00	ug/L		12/23/2014 19:02
n-Propylbenzene	< 2.00	ug/L		12/23/2014 19:02
o-Xylene	< 2.00	ug/L		12/23/2014 19:02
p-Isopropyltoluene	< 2.00	ug/L		12/23/2014 19:02
sec-Butylbenzene	< 2.00	ug/L		12/23/2014 19:02
tert-Butylbenzene	< 2.00	ug/L		12/23/2014 19:02
Toluene	< 2.00	ug/L		12/23/2014 19:02

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	89.4	85.7 - 112		12/23/2014 19:02
4-Bromofluorobenzene	98.0	86.6 - 110		12/23/2014 19:02
Pentafluorobenzene	98.0	94.6 - 106		12/23/2014 19:02
Toluene-D8	101	91.8 - 107		12/23/2014 19:02

Method Reference(s): EPA 8260C
 EPA 5030
Data File: x19631.D



Client: Lu Engineers, Inc.

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW08_12-22-14

Lab Sample ID: 145526-05

Date Sampled: 12/22/2014

Matrix: Water

Date Received: 12/22/2014

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	118	ug/L		12/24/2014 19:53
1,3,5-Trimethylbenzene	13.6	ug/L		12/24/2014 19:53
Benzene	25.4	ug/L		12/24/2014 19:53
Ethylbenzene	163	ug/L		12/24/2014 19:53
Isopropylbenzene	16.2	ug/L		12/24/2014 19:53
m,p-Xylene	182	ug/L		12/24/2014 19:53
Methyl tert-butyl Ether	< 4.00	ug/L		12/24/2014 19:53
Naphthalene	38.1	ug/L		12/24/2014 19:53
n-Butylbenzene	5.89	ug/L		12/24/2014 19:53
n-Propylbenzene	32.4	ug/L		12/24/2014 19:53
o-Xylene	16.8	ug/L		12/24/2014 19:53
p-Isopropyltoluene	< 4.00	ug/L		12/24/2014 19:53
sec-Butylbenzene	< 4.00	ug/L		12/24/2014 19:53
tert-Butylbenzene	< 4.00	ug/L		12/24/2014 19:53
Toluene	17.0	ug/L		12/24/2014 19:53

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	86.8	85.7 - 112		12/24/2014 19:53
4-Bromofluorobenzene	97.3	86.6 - 110		12/24/2014 19:53
Pentafluorobenzene	99.3	94.6 - 106		12/24/2014 19:53
Toluene-D8	102	91.8 - 107		12/24/2014 19:53

Method Reference(s): EPA 8260C

EPA 5030

Data File: x19693.D



Lab Project ID: 145526

Client: Lu Engineers, Inc.
Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW09_12-22-14
Lab Sample ID: 145526-06 **Date Sampled:** 12/22/2014
Matrix: Water **Date Received:** 12/22/2014

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		12/23/2014 18:39
1,3,5-Trimethylbenzene	< 2.00	ug/L		12/23/2014 18:39
Benzene	1.75	ug/L		12/23/2014 18:39
Ethylbenzene	7.88	ug/L		12/23/2014 18:39
Isopropylbenzene	4.52	ug/L		12/23/2014 18:39
m,p-Xylene	2.34	ug/L		12/23/2014 18:39
Methyl tert-butyl Ether	< 2.00	ug/L		12/23/2014 18:39
Naphthalene	< 5.00	ug/L		12/23/2014 18:39
n-Butylbenzene	< 2.00	ug/L		12/23/2014 18:39
n-Propylbenzene	10.3	ug/L		12/23/2014 18:39
o-Xylene	< 2.00	ug/L		12/23/2014 18:39
p-Isopropyltoluene	< 2.00	ug/L		12/23/2014 18:39
sec-Butylbenzene	< 2.00	ug/L		12/23/2014 18:39
tert-Butylbenzene	< 2.00	ug/L		12/23/2014 18:39
Toluene	< 2.00	ug/L		12/23/2014 18:39

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	91.3	85.7 - 112		12/23/2014 18:39
4-Bromofluorobenzene	97.7	86.6 - 110		12/23/2014 18:39
Pentafluorobenzene	98.6	94.6 - 106		12/23/2014 18:39
Toluene-D8	102	91.8 - 107		12/23/2014 18:39

Method Reference(s): EPA 8260C
 EPA 5030
Data File: x19630.D



Lab Project ID: 145526

Client: Lu Engineers, Inc.
Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: T-583 Trip Blank
Lab Sample ID: 145526-07 **Date Sampled:** 12/22/2014
Matrix: Water **Date Received:** 12/22/2014

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		12/23/2014 18:15
1,3,5-Trimethylbenzene	< 2.00	ug/L		12/23/2014 18:15
Benzene	< 0.700	ug/L		12/23/2014 18:15
Ethylbenzene	< 2.00	ug/L		12/23/2014 18:15
Isopropylbenzene	< 2.00	ug/L		12/23/2014 18:15
m,p-Xylene	< 2.00	ug/L		12/23/2014 18:15
Methyl tert-butyl Ether	< 2.00	ug/L		12/23/2014 18:15
Naphthalene	< 5.00	ug/L		12/23/2014 18:15
n-Butylbenzene	< 2.00	ug/L		12/23/2014 18:15
n-Propylbenzene	< 2.00	ug/L		12/23/2014 18:15
o-Xylene	< 2.00	ug/L		12/23/2014 18:15
p-Isopropyltoluene	< 2.00	ug/L		12/23/2014 18:15
sec-Butylbenzene	< 2.00	ug/L		12/23/2014 18:15
tert-Butylbenzene	< 2.00	ug/L		12/23/2014 18:15
Toluene	< 2.00	ug/L		12/23/2014 18:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	93.0	85.7 - 112		12/23/2014 18:15
4-Bromofluorobenzene	91.7	86.6 - 110		12/23/2014 18:15
Pentafluorobenzene	96.6	94.6 - 106		12/23/2014 18:15
Toluene-D8	98.0	91.8 - 107		12/23/2014 18:15

Method Reference(s): EPA 8260C
 EPA 5030
Data File: x19629.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 column used for QC calculation.

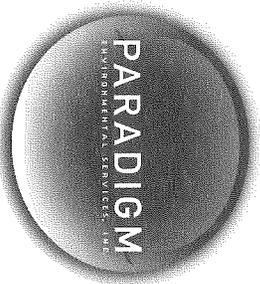
GENERAL TERMS AND CONDITIONS

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.
- Limitations of Liability.** In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform 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



PROJECT REFERENCE
 City of Rochester
 62-24 Syc St.

REPORT TO:	CLIENT:	INVOICE TO:	LAB PROJECT ID
14 Engineers 145 Sudlers Trail Suite 202 Rochester, NY 14608	145 Sudlers Trail Suite 202 Rochester, NY 14608	145 Sudlers Trail Suite 202 Rochester, NY 14608	145526
PHONE: 585-385-7417	CITY: Rochester	STATE: NY	ZIP: 14608
ATTN: Greg Andrews	PHONE: 585-385-7417	STATE: NY	ZIP: 14608
Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	Requested Analysis: WA - Water WG - Groundwater DW - Drinking Water WW - Wastewater SO - Soil SL - Sludge SD - Solid PT - Paint WP - Wipe CK - Caulk OL - Oil AR - Air	Requested Analysis: WA - Water WG - Groundwater DW - Drinking Water WW - Wastewater SO - Soil SL - Sludge SD - Solid PT - Paint WP - Wipe CK - Caulk OL - Oil AR - Air	Quotation #: MS 0724123 Email: Greg Andrews - EIR Jane Forbes - City Hall

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRADES	SAMPLE IDENTIFIER	MAINTENANCE	CONTAMINANTS	REQUESTED ANALYSIS	REMARKS	PARADIGM LAB SAMPLE NUMBER
12/22/14	1129	X	X	MW02-12-22-14	WA	X	STARS VOCs		01
	1242	X	X	MW04-12-22-14		X			02
	1115	X	X	MW06-12-22-14		X			03
	1301	X	X	MW07-12-22-14		X			04
	1215	X	X	MW08-12-22-14		X			05
	1157	X	X	MW09-12-22-14		X			06
7/10/12				T - 583	WA	X		TRIP Blank	07
8				per sample label					
9				GR 12/22/14					
10									

Turnaround Time	Report Supplements
Standard 5 day <input checked="" type="checkbox"/>	Batch QC <input type="checkbox"/>
Rush 3 day <input type="checkbox"/>	Category A <input type="checkbox"/>
Rush 2 day <input type="checkbox"/>	Category B <input type="checkbox"/>
Rush 1 day <input type="checkbox"/>	Other <input type="checkbox"/>
Other <input type="checkbox"/>	Other EDD <input type="checkbox"/>
Basic EDD <input type="checkbox"/>	Other EDD <input type="checkbox"/>
NYSDEC EDD <input type="checkbox"/>	Other EDD <input type="checkbox"/>

Chain of Custody Signatures:

Sampled By: Jane Forbes Date/Time: 11/5 12-22-14

Relinquished By: Greg Andrews Date/Time: 14/6 12-22-14

Received By: [Signature] Date/Time: 12/22/14 16:10

Received @ Lab By: [Signature] Date/Time: 12/22/14 16:10

10°C iced started in field 12/22/14 14:30

Total Cost:

P.I.F.



Chain of Custody Supplement

Client: Ln Engineers Completed by: Glenn Pezzullo
 Lab Project ID: 145526 Date: 12/22/14

Sample Condition Requirements
 Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Preservation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<u>10°C iced started in field</u>		
Sufficient Sample Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Lu Engineers, Inc.

For Lab Project ID

151053

Referencing

City of Rochester, 62-64 Scio St.

Prepared

Monday, April 06, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

A handwritten signature in black ink, appearing to read "KR Hansen", is written over a horizontal line.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

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.

Page 1 of 14

Report Prepared Monday, April 06, 2015



Lab Project ID: 151053

Client: Lu Engineers, Inc.

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW2-033115

Lab Sample ID: 151053-01

Date Sampled: 3/31/2015

Matrix: Groundwater

Date Received: 3/31/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		4/3/2015 17:38
1,3,5-Trimethylbenzene	< 2.00	ug/L		4/3/2015 17:38
Benzene	< 0.700	ug/L		4/3/2015 17:38
Ethylbenzene	< 2.00	ug/L		4/3/2015 17:38
Isopropylbenzene	< 2.00	ug/L		4/3/2015 17:38
m,p-Xylene	< 2.00	ug/L		4/3/2015 17:38
Methyl tert-butyl Ether	< 2.00	ug/L		4/3/2015 17:38
Naphthalene	< 5.00	ug/L		4/3/2015 17:38
n-Butylbenzene	< 2.00	ug/L		4/3/2015 17:38
n-Propylbenzene	< 2.00	ug/L		4/3/2015 17:38
o-Xylene	< 2.00	ug/L		4/3/2015 17:38
p-Isopropyltoluene	< 2.00	ug/L		4/3/2015 17:38
sec-Butylbenzene	< 2.00	ug/L		4/3/2015 17:38
tert-Butylbenzene	< 2.00	ug/L		4/3/2015 17:38
Toluene	< 2.00	ug/L		4/3/2015 17:38

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	105	82.3 - 115		4/3/2015 17:38
4-Bromofluorobenzene	93.2	85.5 - 111		4/3/2015 17:38
Pentafluorobenzene	96.2	91.2 - 107		4/3/2015 17:38
Toluene-D8	99.4	90.9 - 108		4/3/2015 17:38

Method Reference(s): EPA 8260C
 EPA 5030
 Data File: x21690.D



Client: Lu Engineers, Inc.

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW6-033115

Lab Sample ID: 151053-02

Date Sampled: 3/31/2015

Matrix: Groundwater

Date Received: 3/31/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		4/3/2015 17:14
1,3,5-Trimethylbenzene	< 2.00	ug/L		4/3/2015 17:14
Benzene	< 0.700	ug/L		4/3/2015 17:14
Ethylbenzene	< 2.00	ug/L		4/3/2015 17:14
Isopropylbenzene	< 2.00	ug/L		4/3/2015 17:14
m,p-Xylene	< 2.00	ug/L		4/3/2015 17:14
Methyl tert-butyl Ether	< 2.00	ug/L		4/3/2015 17:14
Naphthalene	< 5.00	ug/L		4/3/2015 17:14
n-Butylbenzene	< 2.00	ug/L		4/3/2015 17:14
n-Propylbenzene	< 2.00	ug/L		4/3/2015 17:14
o-Xylene	< 2.00	ug/L		4/3/2015 17:14
p-Isopropyltoluene	< 2.00	ug/L		4/3/2015 17:14
sec-Butylbenzene	< 2.00	ug/L		4/3/2015 17:14
tert-Butylbenzene	< 2.00	ug/L		4/3/2015 17:14
Toluene	< 2.00	ug/L		4/3/2015 17:14

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	104	82.3 - 115		4/3/2015 17:14
4-Bromofluorobenzene	91.5	85.5 - 111		4/3/2015 17:14
Pentafluorobenzene	96.8	91.2 - 107		4/3/2015 17:14
Toluene-D8	99.0	90.9 - 108		4/3/2015 17:14

Method Reference(s): EPA 8260C
EPA 5030
Data File: x21689.D



Lab Project ID: 151053

Client: Lu Engineers, Inc.
Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW5-033115
Lab Sample ID: 151053-03 **Date Sampled:** 3/31/2015
Matrix: Groundwater **Date Received:** 3/31/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		4/3/2015 16:51
1,3,5-Trimethylbenzene	< 2.00	ug/L		4/3/2015 16:51
Benzene	< 0.700	ug/L		4/3/2015 16:51
Ethylbenzene	< 2.00	ug/L		4/3/2015 16:51
Isopropylbenzene	< 2.00	ug/L		4/3/2015 16:51
m,p-Xylene	< 2.00	ug/L		4/3/2015 16:51
Methyl tert-butyl Ether	< 2.00	ug/L		4/3/2015 16:51
Naphthalene	< 5.00	ug/L		4/3/2015 16:51
n-Butylbenzene	< 2.00	ug/L		4/3/2015 16:51
n-Propylbenzene	< 2.00	ug/L		4/3/2015 16:51
o-Xylene	< 2.00	ug/L		4/3/2015 16:51
p-Isopropyltoluene	< 2.00	ug/L		4/3/2015 16:51
sec-Butylbenzene	< 2.00	ug/L		4/3/2015 16:51
tert-Butylbenzene	< 2.00	ug/L		4/3/2015 16:51
Toluene	< 2.00	ug/L		4/3/2015 16:51

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	103	82.3 - 115		4/3/2015 16:51
4-Bromofluorobenzene	93.6	85.5 - 111		4/3/2015 16:51
Pentafluorobenzene	97.7	91.2 - 107		4/3/2015 16:51
Toluene-D8	99.6	90.9 - 108		4/3/2015 16:51

Method Reference(s): EPA 8260C
 EPA 5030
Data File: x21688.D



Client: Lu Engineers, Inc.

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW4-033115

Lab Sample ID: 151053-04

Date Sampled: 3/31/2015

Matrix: Groundwater

Date Received: 3/31/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		4/3/2015 16:27
1,3,5-Trimethylbenzene	< 2.00	ug/L		4/3/2015 16:27
Benzene	0.846	ug/L		4/3/2015 16:27
Ethylbenzene	< 2.00	ug/L		4/3/2015 16:27
Isopropylbenzene	< 2.00	ug/L		4/3/2015 16:27
m,p-Xylene	2.91	ug/L		4/3/2015 16:27
Methyl tert-butyl Ether	< 2.00	ug/L		4/3/2015 16:27
Naphthalene	< 5.00	ug/L		4/3/2015 16:27
n-Butylbenzene	< 2.00	ug/L		4/3/2015 16:27
n-Propylbenzene	< 2.00	ug/L		4/3/2015 16:27
o-Xylene	< 2.00	ug/L		4/3/2015 16:27
p-Isopropyltoluene	< 2.00	ug/L		4/3/2015 16:27
sec-Butylbenzene	< 2.00	ug/L		4/3/2015 16:27
tert-Butylbenzene	< 2.00	ug/L		4/3/2015 16:27
Toluene	< 2.00	ug/L		4/3/2015 16:27

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	103	82.3 - 115		4/3/2015 16:27
4-Bromofluorobenzene	95.3	85.5 - 111		4/3/2015 16:27
Pentafluorobenzene	96.6	91.2 - 107		4/3/2015 16:27
Toluene-D8	99.9	90.9 - 108		4/3/2015 16:27

Method Reference(s): EPA 8260C
EPA 5030
Data File: x21687.D



Client: Lu Engineers, Inc.

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW7-033115

Lab Sample ID: 151053-05

Date Sampled: 3/31/2015

Matrix: Groundwater

Date Received: 3/31/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		4/3/2015 16:03
1,3,5-Trimethylbenzene	< 2.00	ug/L		4/3/2015 16:03
Benzene	< 0.700	ug/L		4/3/2015 16:03
Ethylbenzene	< 2.00	ug/L		4/3/2015 16:03
Isopropylbenzene	< 2.00	ug/L		4/3/2015 16:03
m,p-Xylene	< 2.00	ug/L		4/3/2015 16:03
Methyl tert-butyl Ether	< 2.00	ug/L		4/3/2015 16:03
Naphthalene	< 5.00	ug/L		4/3/2015 16:03
n-Butylbenzene	< 2.00	ug/L		4/3/2015 16:03
n-Propylbenzene	< 2.00	ug/L		4/3/2015 16:03
o-Xylene	< 2.00	ug/L		4/3/2015 16:03
p-Isopropyltoluene	< 2.00	ug/L		4/3/2015 16:03
sec-Butylbenzene	< 2.00	ug/L		4/3/2015 16:03
tert-Butylbenzene	< 2.00	ug/L		4/3/2015 16:03
Toluene	< 2.00	ug/L		4/3/2015 16:03

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	103	82.3 - 115		4/3/2015 16:03
4-Bromofluorobenzene	96.6	85.5 - 111		4/3/2015 16:03
Pentafluorobenzene	98.8	91.2 - 107		4/3/2015 16:03
Toluene-D8	99.9	90.9 - 108		4/3/2015 16:03

Method Reference(s): EPA 8260C
EPA 5030
Data File: x21686.D



Client: Lu Engineers, Inc.

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW9-033115

Lab Sample ID: 151053-06

Date Sampled: 3/31/2015

Matrix: Groundwater

Date Received: 3/31/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	4.40	ug/L		4/3/2015 15:39
1,3,5-Trimethylbenzene	< 2.00	ug/L		4/3/2015 15:39
Benzene	1.80	ug/L		4/3/2015 15:39
Ethylbenzene	9.74	ug/L		4/3/2015 15:39
Isopropylbenzene	2.24	ug/L		4/3/2015 15:39
m,p-Xylene	10.7	ug/L		4/3/2015 15:39
Methyl tert-butyl Ether	< 2.00	ug/L		4/3/2015 15:39
Naphthalene	5.43	ug/L		4/3/2015 15:39
n-Butylbenzene	< 2.00	ug/L		4/3/2015 15:39
n-Propylbenzene	2.94	ug/L		4/3/2015 15:39
o-Xylene	< 2.00	ug/L		4/3/2015 15:39
p-Isopropyltoluene	< 2.00	ug/L		4/3/2015 15:39
sec-Butylbenzene	< 2.00	ug/L		4/3/2015 15:39
tert-Butylbenzene	< 2.00	ug/L		4/3/2015 15:39
Toluene	< 2.00	ug/L		4/3/2015 15:39

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	103	82.3 - 115		4/3/2015 15:39
4-Bromofluorobenzene	99.8	85.5 - 111		4/3/2015 15:39
Pentafluorobenzene	99.9	91.2 - 107		4/3/2015 15:39
Toluene-D8	99.6	90.9 - 108		4/3/2015 15:39

Method Reference(s): EPA 8260C
EPA 5030
Data File: x21685.D



Lab Project ID: 151053

Client: Lu Engineers, Inc.

Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: MW8-033115

Lab Sample ID: 151053-07

Date Sampled: 3/31/2015

Matrix: Groundwater

Date Received: 3/31/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	549	ug/L		4/3/2015 14:28
1,3,5-Trimethylbenzene	116	ug/L		4/3/2015 14:28
Benzene	47.0	ug/L		4/3/2015 14:28
Ethylbenzene	677	ug/L		4/3/2015 14:28
Isopropylbenzene	36.2	ug/L		4/3/2015 14:28
m,p-Xylene	1420	ug/L		4/3/2015 14:28
Methyl tert-butyl Ether	< 20.0	ug/L		4/3/2015 14:28
Naphthalene	182	ug/L		4/3/2015 14:28
n-Butylbenzene	< 20.0	ug/L		4/3/2015 14:28
n-Propylbenzene	82.2	ug/L		4/3/2015 14:28
o-Xylene	78.2	ug/L		4/3/2015 14:28
p-Isopropyltoluene	< 20.0	ug/L		4/3/2015 14:28
sec-Butylbenzene	< 20.0	ug/L		4/3/2015 14:28
tert-Butylbenzene	< 20.0	ug/L		4/3/2015 14:28
Toluene	94.0	ug/L		4/3/2015 14:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	103	82.3 - 115		4/3/2015 14:28
4-Bromofluorobenzene	99.3	85.5 - 111		4/3/2015 14:28
Pentafluorobenzene	101	91.2 - 107		4/3/2015 14:28
Toluene-D8	101	90.9 - 108		4/3/2015 14:28

Method Reference(s): EPA 8260C
EPA 5030
Data File: x21682.D



Client: Lu Engineers, Inc.
Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: BD-033115
Lab Sample ID: 151053-08
Matrix: Groundwater

Date Sampled: 3/31/2015
Date Received: 3/31/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		4/3/2015 14:04
1,3,5-Trimethylbenzene	< 2.00	ug/L		4/3/2015 14:04
Benzene	< 0.700	ug/L		4/3/2015 14:04
Ethylbenzene	< 2.00	ug/L		4/3/2015 14:04
Isopropylbenzene	< 2.00	ug/L		4/3/2015 14:04
m,p-Xylene	< 2.00	ug/L		4/3/2015 14:04
Methyl tert-butyl Ether	< 2.00	ug/L		4/3/2015 14:04
Naphthalene	< 5.00	ug/L		4/3/2015 14:04
n-Butylbenzene	< 2.00	ug/L		4/3/2015 14:04
n-Propylbenzene	< 2.00	ug/L		4/3/2015 14:04
o-Xylene	< 2.00	ug/L		4/3/2015 14:04
p-Isopropyltoluene	< 2.00	ug/L		4/3/2015 14:04
sec-Butylbenzene	< 2.00	ug/L		4/3/2015 14:04
tert-Butylbenzene	< 2.00	ug/L		4/3/2015 14:04
Toluene	< 2.00	ug/L		4/3/2015 14:04

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	106	82.3 - 115		4/3/2015 14:04
4-Bromofluorobenzene	92.4	85.5 - 111		4/3/2015 14:04
Pentafluorobenzene	95.8	91.2 - 107		4/3/2015 14:04
Toluene-D8	98.1	90.9 - 108		4/3/2015 14:04

Method Reference(s): EPA 8260C
EPA 5030
Data File: x21681.D



Lab Project ID: 151053

Client: Lu Engineers, Inc.
Project Reference: City of Rochester, 62-64 Scio St.

Sample Identifier: Trip Blank-033115 (T-592)
Lab Sample ID: 151053-09 **Date Sampled:** 3/31/2015
Matrix: Water **Date Received:** 3/31/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		4/3/2015 13:41
1,3,5-Trimethylbenzene	< 2.00	ug/L		4/3/2015 13:41
Benzene	< 0.700	ug/L		4/3/2015 13:41
Ethylbenzene	< 2.00	ug/L		4/3/2015 13:41
Isopropylbenzene	< 2.00	ug/L		4/3/2015 13:41
m,p-Xylene	< 2.00	ug/L		4/3/2015 13:41
Methyl tert-butyl Ether	< 2.00	ug/L		4/3/2015 13:41
Naphthalene	< 5.00	ug/L		4/3/2015 13:41
n-Butylbenzene	< 2.00	ug/L		4/3/2015 13:41
n-Propylbenzene	< 2.00	ug/L		4/3/2015 13:41
o-Xylene	< 2.00	ug/L		4/3/2015 13:41
p-Isopropyltoluene	< 2.00	ug/L		4/3/2015 13:41
sec-Butylbenzene	< 2.00	ug/L		4/3/2015 13:41
tert-Butylbenzene	< 2.00	ug/L		4/3/2015 13:41
Toluene	< 2.00	ug/L		4/3/2015 13:41

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	105	82.3 - 115		4/3/2015 13:41
4-Bromofluorobenzene	92.9	85.5 - 111		4/3/2015 13:41
Pentafluorobenzene	95.4	91.2 - 107		4/3/2015 13:41
Toluene-D8	98.7	90.9 - 108		4/3/2015 13:41

Method Reference(s): EPA 8260C
 EPA 5030
Data File: x21680.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 column used for QC calculation.

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 re-perform 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.

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.



CHAIN OF CUSTODY

PARADIGM
ENVIRONMENTAL SERVICES, INC.

REPORT TO:

CLIENT:

INVOICE TO:

LAB PROJECT ID

CLIENT: *LY ONE INDUSTRIES*

ADDRESS:

ADDRESS:

Quotation #:

ADDRESS: *135 Sways Run Suite 202*

CITY: *PITTSBURGH*

STATE: *PA*

ZIP:

PHONE: *(585) 385-7417*

CITY:

STATE:

ZIP:

ATTN: *Greg Andrus*

ATTN:

ATTN:

Email: *greg.andrus@lyone.com*

PROJECT REFERENCE: *602-04 Seid ST.*

WA - Water
WG - Groundwater

DW - Drinking Water
WW - Wastewater

SO - Soil
SL - Sludge

SD - Solid
PT - Paint

WP - Wipe
CK - Caulk

OL - Oil
AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRADES	SAMPLE IDENTIFIER	MATERIALS	NUMBERS	REMARKS	PARADIGM LAB SAMPLE NUMBER
3/31/15	1047	X		MW2-03315	WG	2		01
	1055	X		MW6-03315	WG	2		02
	1104	X		MW5-03315	WG	2		03
	1111	X		MW4-03315	WG	2		04
	1118	X		MW7-03315	WG	2		05
	1122	X		MW9-03315	WG	2		06
	1129	X		MW9-03315 W/S/MSD	WG	4		07
	1136	X		MW8-03315	WG	2		08
		X		BD-03315	WG	2		09
		X		TRAP BRNK-03315	WG	1		10

Availability contingent upon lab approval; additional fees may apply.

Report Supplements

Standard 5 day	<input checked="" type="checkbox"/>	Batch QC	<input type="checkbox"/>	Basic EDD	<input type="checkbox"/>
Rush 3 day	<input type="checkbox"/>	Category A	<input type="checkbox"/>	NYSDEC EDD	<input type="checkbox"/>
Rush 2 day	<input type="checkbox"/>	Category B	<input type="checkbox"/>	Other EDD	<input type="checkbox"/>
Rush 1 day	<input type="checkbox"/>	Other	<input type="checkbox"/>	Other EDD	<input type="checkbox"/>

Sampled By: *Ari Ometzschell* Date/Time: *3/31/15 1855*

Relinquished By: *Greg Andrus* Date/Time: *3/31/15 1255*

Received @ Lab By: *Greg Andrus* Date/Time: *3/31/15 13:53*

Total Cost:

P.I.F.

1 of 2



Chain of Custody Supplement

Client: Lu Engineers Completed by: Glen Pezzulo
 Lab Project ID: 151053 Date: 3/31/15

Sample Condition Requirements
 Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Preservation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<u>7°C iced started in field</u>		
Sufficient Sample Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Lu Engineers, Inc.

For Lab Project ID
152451

Referencing

City of Rochester 4226 Scio St.

Prepared

Monday, June 22, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

A handwritten signature in black ink, consisting of several overlapping, slanted strokes, positioned above a horizontal line.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



Lab Project ID: 152451

Client: Lu Engineers, Inc.
Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: MW6-061615
Lab Sample ID: 152451-01 **Date Sampled:** 6/12/2015
Matrix: Groundwater **Date Received:** 6/16/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		6/18/2015 19:28
1,3,5-Trimethylbenzene	< 2.00	ug/L		6/18/2015 19:28
Benzene	< 0.700	ug/L		6/18/2015 19:28
Ethylbenzene	< 2.00	ug/L		6/18/2015 19:28
Isopropylbenzene	< 2.00	ug/L		6/18/2015 19:28
m,p-Xylene	< 2.00	ug/L		6/18/2015 19:28
Methyl tert-butyl Ether	< 2.00	ug/L		6/18/2015 19:28
Naphthalene	< 5.00	ug/L		6/18/2015 19:28
n-Butylbenzene	< 2.00	ug/L		6/18/2015 19:28
n-Propylbenzene	< 2.00	ug/L		6/18/2015 19:28
o-Xylene	< 2.00	ug/L		6/18/2015 19:28
p-Isopropyltoluene	< 2.00	ug/L		6/18/2015 19:28
sec-Butylbenzene	< 2.00	ug/L		6/18/2015 19:28
tert-Butylbenzene	< 2.00	ug/L		6/18/2015 19:28
Toluene	< 2.00	ug/L		6/18/2015 19:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	102	82.3 - 115		6/18/2015 19:28
4-Bromofluorobenzene	87.4	85.5 - 111		6/18/2015 19:28
Pentafluorobenzene	96.8	91.2 - 107		6/18/2015 19:28
Toluene-D8	95.4	90.9 - 108		6/18/2015 19:28

Method Reference(s): EPA 8260C
EPA 5030
Data File: x23842.D



Lab Project ID: 152451

Client: Lu Engineers, Inc.
Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: MW5-061615
Lab Sample ID: 152451-02 **Date Sampled:** 6/12/2015
Matrix: Groundwater **Date Received:** 6/16/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		6/18/2015 19:51
1,3,5-Trimethylbenzene	< 2.00	ug/L		6/18/2015 19:51
Benzene	< 0.700	ug/L		6/18/2015 19:51
Ethylbenzene	< 2.00	ug/L		6/18/2015 19:51
Isopropylbenzene	< 2.00	ug/L		6/18/2015 19:51
m,p-Xylene	< 2.00	ug/L		6/18/2015 19:51
Methyl tert-butyl Ether	< 2.00	ug/L		6/18/2015 19:51
Naphthalene	< 5.00	ug/L		6/18/2015 19:51
n-Butylbenzene	< 2.00	ug/L		6/18/2015 19:51
n-Propylbenzene	< 2.00	ug/L		6/18/2015 19:51
o-Xylene	< 2.00	ug/L		6/18/2015 19:51
p-Isopropyltoluene	< 2.00	ug/L		6/18/2015 19:51
sec-Butylbenzene	< 2.00	ug/L		6/18/2015 19:51
tert-Butylbenzene	< 2.00	ug/L		6/18/2015 19:51
Toluene	< 2.00	ug/L		6/18/2015 19:51

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	104	82.3 - 115		6/18/2015 19:51
4-Bromofluorobenzene	86.9	85.5 - 111		6/18/2015 19:51
Pentafluorobenzene	98.3	91.2 - 107		6/18/2015 19:51
Toluene-D8	95.4	90.9 - 108		6/18/2015 19:51

Method Reference(s): EPA 8260C
EPA 5030
Data File: x23843.D



Lab Project ID: 152451

Client: Lu Engineers, Inc.
Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: MW7-061615
Lab Sample ID: 152451-03 **Date Sampled:** 6/12/2015
Matrix: Groundwater **Date Received:** 6/16/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		6/18/2015 20:15
1,3,5-Trimethylbenzene	< 2.00	ug/L		6/18/2015 20:15
Benzene	< 0.700	ug/L		6/18/2015 20:15
Ethylbenzene	< 2.00	ug/L		6/18/2015 20:15
Isopropylbenzene	< 2.00	ug/L		6/18/2015 20:15
m,p-Xylene	5.36	ug/L		6/18/2015 20:15
Methyl tert-butyl Ether	< 2.00	ug/L		6/18/2015 20:15
Naphthalene	< 5.00	ug/L		6/18/2015 20:15
n-Butylbenzene	< 2.00	ug/L		6/18/2015 20:15
n-Propylbenzene	< 2.00	ug/L		6/18/2015 20:15
o-Xylene	< 2.00	ug/L		6/18/2015 20:15
p-Isopropyltoluene	< 2.00	ug/L		6/18/2015 20:15
sec-Butylbenzene	< 2.00	ug/L		6/18/2015 20:15
tert-Butylbenzene	< 2.00	ug/L		6/18/2015 20:15
Toluene	< 2.00	ug/L		6/18/2015 20:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	103	82.3 - 115		6/18/2015 20:15
4-Bromofluorobenzene	93.7	85.5 - 111		6/18/2015 20:15
Pentafluorobenzene	96.7	91.2 - 107		6/18/2015 20:15
Toluene-D8	98.3	90.9 - 108		6/18/2015 20:15

Method Reference(s): EPA 8260C
 EPA 5030
Data File: x23844.D



Lab Project ID: 152451

Client: Lu Engineers, Inc.
Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: MW4-061615
Lab Sample ID: 152451-04 **Date Sampled:** 6/12/2015
Matrix: Groundwater **Date Received:** 6/16/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		6/18/2015 20:38
1,3,5-Trimethylbenzene	< 2.00	ug/L		6/18/2015 20:38
Benzene	< 0.700	ug/L		6/18/2015 20:38
Ethylbenzene	< 2.00	ug/L		6/18/2015 20:38
Isopropylbenzene	< 2.00	ug/L		6/18/2015 20:38
m,p-Xylene	< 2.00	ug/L		6/18/2015 20:38
Methyl tert-butyl Ether	< 2.00	ug/L		6/18/2015 20:38
Naphthalene	< 5.00	ug/L		6/18/2015 20:38
n-Butylbenzene	< 2.00	ug/L		6/18/2015 20:38
n-Propylbenzene	< 2.00	ug/L		6/18/2015 20:38
o-Xylene	< 2.00	ug/L		6/18/2015 20:38
p-Isopropyltoluene	< 2.00	ug/L		6/18/2015 20:38
sec-Butylbenzene	< 2.00	ug/L		6/18/2015 20:38
tert-Butylbenzene	< 2.00	ug/L		6/18/2015 20:38
Toluene	< 2.00	ug/L		6/18/2015 20:38

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	106	82.3 - 115		6/18/2015 20:38
4-Bromofluorobenzene	87.6	85.5 - 111		6/18/2015 20:38
Pentafluorobenzene	98.3	91.2 - 107		6/18/2015 20:38
Toluene-D8	94.5	90.9 - 108		6/18/2015 20:38

Method Reference(s): EPA 8260C
 EPA 5030
Data File: x23845.D



Lab Project ID: 152451

Client: Lu Engineers, Inc.
Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: MW2-061615
Lab Sample ID: 152451-05 **Date Sampled:** 6/12/2015
Matrix: Groundwater **Date Received:** 6/16/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		6/18/2015 21:02
1,3,5-Trimethylbenzene	< 2.00	ug/L		6/18/2015 21:02
Benzene	< 0.700	ug/L		6/18/2015 21:02
Ethylbenzene	< 2.00	ug/L		6/18/2015 21:02
Isopropylbenzene	< 2.00	ug/L		6/18/2015 21:02
m,p-Xylene	< 2.00	ug/L		6/18/2015 21:02
Methyl tert-butyl Ether	< 2.00	ug/L		6/18/2015 21:02
Naphthalene	< 5.00	ug/L		6/18/2015 21:02
n-Butylbenzene	< 2.00	ug/L		6/18/2015 21:02
n-Propylbenzene	< 2.00	ug/L		6/18/2015 21:02
o-Xylene	< 2.00	ug/L		6/18/2015 21:02
p-Isopropyltoluene	< 2.00	ug/L		6/18/2015 21:02
sec-Butylbenzene	< 2.00	ug/L		6/18/2015 21:02
tert-Butylbenzene	< 2.00	ug/L		6/18/2015 21:02
Toluene	< 2.00	ug/L		6/18/2015 21:02

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	106	82.3 - 115		6/18/2015 21:02
4-Bromofluorobenzene	86.4	85.5 - 111		6/18/2015 21:02
Pentafluorobenzene	96.2	91.2 - 107		6/18/2015 21:02
Toluene-D8	95.2	90.9 - 108		6/18/2015 21:02

Method Reference(s): EPA 8260C
 EPA 5030
Data File: x23846.D



Client: Lu Engineers, Inc.
Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: MW8-061615
Lab Sample ID: 152451-06 **Date Sampled:** 6/12/2015
Matrix: Groundwater **Date Received:** 6/16/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	400	ug/L		6/18/2015 22:12
1,3,5-Trimethylbenzene	64.4	ug/L		6/18/2015 22:12
Benzene	35.7	ug/L		6/18/2015 22:12
Ethylbenzene	568	ug/L		6/18/2015 22:12
Isopropylbenzene	29.9	ug/L		6/18/2015 22:12
m,p-Xylene	952	ug/L		6/18/2015 22:12
Methyl tert-butyl Ether	< 20.0	ug/L		6/18/2015 22:12
Naphthalene	139	ug/L		6/18/2015 22:12
n-Butylbenzene	< 20.0	ug/L		6/18/2015 22:12
n-Propylbenzene	75.3	ug/L		6/18/2015 22:12
o-Xylene	46.2	ug/L		6/18/2015 22:12
p-Isopropyltoluene	< 20.0	ug/L		6/18/2015 22:12
sec-Butylbenzene	< 20.0	ug/L		6/18/2015 22:12
tert-Butylbenzene	< 20.0	ug/L		6/18/2015 22:12
Toluene	70.1	ug/L		6/18/2015 22:12

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	101	82.3 - 115		6/18/2015 22:12
4-Bromofluorobenzene	96.4	85.5 - 111		6/18/2015 22:12
Pentafluorobenzene	102	91.2 - 107		6/18/2015 22:12
Toluene-D8	99.6	90.9 - 108		6/18/2015 22:12

Method Reference(s): EPA 8260C
EPA 5030
Data File: x23849.D



Lab Project ID: 152451

Client: Lu Engineers, Inc.
Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: MW9-061615
Lab Sample ID: 152451-07 **Date Sampled:** 6/12/2015
Matrix: Groundwater **Date Received:** 6/16/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		6/18/2015 21:25
1,3,5-Trimethylbenzene	< 2.00	ug/L		6/18/2015 21:25
Benzene	1.68	ug/L		6/18/2015 21:25
Ethylbenzene	< 2.00	ug/L		6/18/2015 21:25
Isopropylbenzene	< 2.00	ug/L		6/18/2015 21:25
m,p-Xylene	< 2.00	ug/L		6/18/2015 21:25
Methyl tert-butyl Ether	< 2.00	ug/L		6/18/2015 21:25
Naphthalene	< 5.00	ug/L		6/18/2015 21:25
n-Butylbenzene	< 2.00	ug/L		6/18/2015 21:25
n-Propylbenzene	2.04	ug/L		6/18/2015 21:25
o-Xylene	< 2.00	ug/L		6/18/2015 21:25
p-Isopropyltoluene	< 2.00	ug/L		6/18/2015 21:25
sec-Butylbenzene	< 2.00	ug/L		6/18/2015 21:25
tert-Butylbenzene	< 2.00	ug/L		6/18/2015 21:25
Toluene	< 2.00	ug/L		6/18/2015 21:25

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	104	82.3 - 115		6/18/2015 21:25
4-Bromofluorobenzene	91.1	85.5 - 111		6/18/2015 21:25
Pentafluorobenzene	97.4	91.2 - 107		6/18/2015 21:25
Toluene-D8	96.7	90.9 - 108		6/18/2015 21:25

Method Reference(s): EPA 8260C
 EPA 5030
Data File: x23847.D



Client: Lu Engineers, Inc.
Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: Trip Blank T-630
Lab Sample ID: 152451-08 **Date Sampled:** 6/12/2015
Matrix: Groundwater **Date Received:** 6/16/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		6/18/2015 19:04
1,3,5-Trimethylbenzene	< 2.00	ug/L		6/18/2015 19:04
Benzene	< 0.700	ug/L		6/18/2015 19:04
Ethylbenzene	< 2.00	ug/L		6/18/2015 19:04
Isopropylbenzene	< 2.00	ug/L		6/18/2015 19:04
m,p-Xylene	< 2.00	ug/L		6/18/2015 19:04
Methyl tert-butyl Ether	< 2.00	ug/L		6/18/2015 19:04
Naphthalene	< 5.00	ug/L		6/18/2015 19:04
n-Butylbenzene	< 2.00	ug/L		6/18/2015 19:04
n-Propylbenzene	< 2.00	ug/L		6/18/2015 19:04
o-Xylene	< 2.00	ug/L		6/18/2015 19:04
p-Isopropyltoluene	< 2.00	ug/L		6/18/2015 19:04
sec-Butylbenzene	< 2.00	ug/L		6/18/2015 19:04
tert-Butylbenzene	< 2.00	ug/L		6/18/2015 19:04
Toluene	< 2.00	ug/L		6/18/2015 19:04

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	105	82.3 - 115		6/18/2015 19:04
4-Bromofluorobenzene	87.3	85.5 - 111		6/18/2015 19:04
Pentafluorobenzene	97.4	91.2 - 107		6/18/2015 19:04
Toluene-D8	95.1	90.9 - 108		6/18/2015 19:04

Method Reference(s): EPA 8260C
EPA 5030
Data File: x23841.D



Lab Project ID: 152451

Client: Lu Engineers, Inc.
Project Reference: City of Rochester 4226 Scio St.

Sample Identifier: Blind-DUP-061615
Lab Sample ID: 152451-09 **Date Sampled:** 6/12/2015
Matrix: Groundwater **Date Received:** 6/16/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		6/18/2015 21:49
1,3,5-Trimethylbenzene	< 2.00	ug/L		6/18/2015 21:49
Benzene	< 0.700	ug/L		6/18/2015 21:49
Ethylbenzene	< 2.00	ug/L		6/18/2015 21:49
Isopropylbenzene	< 2.00	ug/L		6/18/2015 21:49
m,p-Xylene	< 2.00	ug/L		6/18/2015 21:49
Methyl tert-butyl Ether	< 2.00	ug/L		6/18/2015 21:49
Naphthalene	< 5.00	ug/L		6/18/2015 21:49
n-Butylbenzene	< 2.00	ug/L		6/18/2015 21:49
n-Propylbenzene	< 2.00	ug/L		6/18/2015 21:49
o-Xylene	< 2.00	ug/L		6/18/2015 21:49
p-Isopropyltoluene	< 2.00	ug/L		6/18/2015 21:49
sec-Butylbenzene	< 2.00	ug/L		6/18/2015 21:49
tert-Butylbenzene	< 2.00	ug/L		6/18/2015 21:49
Toluene	< 2.00	ug/L		6/18/2015 21:49

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	103	82.3 - 115		6/18/2015 21:49
4-Bromofluorobenzene	88.0	85.5 - 111		6/18/2015 21:49
Pentafluorobenzene	99.2	91.2 - 107		6/18/2015 21:49
Toluene-D8	96.8	90.9 - 108		6/18/2015 21:49

Method Reference(s): EPA 8260C
 EPA 5030
Data File: x23848.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 column used for QC calculation.

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 re-perform 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.

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.

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CHAIN OF CUSTODY



PROJECT REFERENCE
 City of Rochester
 4826 Scio St.

REPORT TO:	CLIENT: Lu Engineers	INVOICE TO:	LAB PROJECT ID: 152451
ADDRESS: 125 Sully's Trail Suite 202	CITY: Pittsford	STATE: NY	ZIP: 14534
PHONE: 585-385-7412	ATTN: G. Andrews / Jane Forbes / Ari Chemtob	ADDRESS: SAHAE	QUOTATION #:
MATRIX CODES: Matrix Codes: AQ - Aqueous Liquid, NG - Non-Aqueous Liquid	WA - Water, WG - Groundwater	DW - Drinking Water, WW - Wastewater	SO - Soil, SL - Sludge
SD - Solid, PT - Paint, WP - Wipe, CK - Caulk, OL - Oil, AR - Air	REQUESTED ANALYSIS		
REMARKS: Email: gregandrus@luengineers.com, Forbes JB city@rochester.gov, achemtob@luengineers.com			

DATE COLLECTED	TIME COLLECTED	C O M P O S I T I O N	G R A B	SAMPLE IDENTIFIER	M A C A D R E S	N O N M B A I R N E R S	PARADIGM LAB SAMPLE NUMBER
1	6/12/15	6905	X	MW6-061615	NG	2	01
2	0855	X	MW5-061615	2	X	2	02
3	0925	X	MW3-061615	2	X	2	03
4	0943	X	MW4-061615	2	X	2	04
5	0925	X	MW7-061615	2	X	2	05
6	0954	X	MW2-061615	2	X	2	06
7	1006	X	MW8-061615	2	X	2	07
8	1015	X	MW9-061615	2	X	2	08
9	---	X	MW0-061615	2	X	2	09
10	---	X	MW0-061615	2	X	2	09

Turnaround Time	Report Supplements
Availability contingent upon lab approval; additional fees may apply.	
Standard 5 day <input checked="" type="checkbox"/>	Basic EDD <input type="checkbox"/>
Rush 3 day <input type="checkbox"/>	NYSDEC EDD <input type="checkbox"/>
Rush 2 day <input type="checkbox"/>	Category A <input type="checkbox"/>
Rush 1 day <input type="checkbox"/>	Category B <input type="checkbox"/>
Other <input type="checkbox"/>	Other EDD <input type="checkbox"/>
please indicate: _____	please indicate: _____

Ami Greener 6/16/15 9:12:30

Sampled By: *[Signature]* Date/Time: 6/16/15 12:50

Relinquished By: *[Signature]* Date/Time: 6/16/15 12:50

Received By: *[Signature]* Date/Time: 6/16/15 16:59

Received @ Lab By: _____ Date/Time: _____

PLF:

Total Cost:

16th Circle 6/16/15 13:04

2012



Chain of Custody Supplement

Client: Lu Eng Completed by: Molgrail
 Lab Project ID: 152451 Date: 6/16/15

Sample Condition Requirements
 Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Preservation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Temperature	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Comments	<u>16°C cool 6/16/15 1304</u>		
Sufficient Sample Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Lu Engineers, Inc.

For Lab Project ID

153995

Referencing

Scio St 4226

Prepared

Monday, September 28, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

A handwritten signature in black ink, appearing to read "KR Hansen", is written over a horizontal line.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

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.

Page 1 of 14

Report Prepared Monday, September 28, 2015



Lab Project ID: 153995

Client: **Lu Engineers, Inc.**

Project Reference: Scio St 4226

Sample Identifier: MW5-092315

Lab Sample ID: 153995-01

Date Sampled: 9/23/2015

Matrix: Groundwater

Date Received: 9/23/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/25/2015 04:59
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/25/2015 04:59
Benzene	< 1.00	ug/L		9/25/2015 04:59
Ethylbenzene	< 2.00	ug/L		9/25/2015 04:59
Isopropylbenzene	< 2.00	ug/L		9/25/2015 04:59
m,p-Xylene	< 2.00	ug/L		9/25/2015 04:59
Methyl tert-butyl Ether	< 2.00	ug/L		9/25/2015 04:59
Naphthalene	< 5.00	ug/L		9/25/2015 04:59
n-Butylbenzene	< 2.00	ug/L		9/25/2015 04:59
n-Propylbenzene	< 2.00	ug/L		9/25/2015 04:59
o-Xylene	< 2.00	ug/L		9/25/2015 04:59
p-Isopropyltoluene	< 2.00	ug/L		9/25/2015 04:59
sec-Butylbenzene	< 2.00	ug/L		9/25/2015 04:59
tert-Butylbenzene	< 2.00	ug/L		9/25/2015 04:59
Toluene	< 2.00	ug/L		9/25/2015 04:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	109	81.1 - 116		9/25/2015 04:59
4-Bromofluorobenzene	91.6	82.3 - 113		9/25/2015 04:59
Pentafluorobenzene	92.8	91.1 - 110		9/25/2015 04:59
Toluene-D8	98.9	91.4 - 106		9/25/2015 04:59

Method Reference(s): EPA 8260C
 EPA 5030
 Data File: x26402.D



Lab Project ID: 153995

Client: **Lu Engineers, Inc.**

Project Reference: Scio St 4226

Sample Identifier: MW6-092315

Lab Sample ID: 153995-02

Date Sampled: 9/23/2015

Matrix: Groundwater

Date Received: 9/23/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/25/2015 05:22
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/25/2015 05:22
Benzene	< 1.00	ug/L		9/25/2015 05:22
Ethylbenzene	< 2.00	ug/L		9/25/2015 05:22
Isopropylbenzene	< 2.00	ug/L		9/25/2015 05:22
m,p-Xylene	< 2.00	ug/L		9/25/2015 05:22
Methyl tert-butyl Ether	< 2.00	ug/L		9/25/2015 05:22
Naphthalene	< 5.00	ug/L		9/25/2015 05:22
n-Butylbenzene	< 2.00	ug/L		9/25/2015 05:22
n-Propylbenzene	< 2.00	ug/L		9/25/2015 05:22
o-Xylene	< 2.00	ug/L		9/25/2015 05:22
p-Isopropyltoluene	< 2.00	ug/L		9/25/2015 05:22
sec-Butylbenzene	< 2.00	ug/L		9/25/2015 05:22
tert-Butylbenzene	< 2.00	ug/L		9/25/2015 05:22
Toluene	< 2.00	ug/L		9/25/2015 05:22

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	110	81.1 - 116		9/25/2015 05:22
4-Bromofluorobenzene	90.9	82.3 - 113		9/25/2015 05:22
Pentafluorobenzene	92.5	91.1 - 110		9/25/2015 05:22
Toluene-D8	98.2	91.4 - 106		9/25/2015 05:22

Method Reference(s): EPA 8260C
 EPA 5030
 Data File: x26403.D



Lab Project ID: 153995

Client: **Lu Engineers, Inc.**

Project Reference: Scio St 4226

Sample Identifier: MW2-092315

Lab Sample ID: 153995-03

Date Sampled: 9/23/2015

Matrix: Groundwater

Date Received: 9/23/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/25/2015 05:45
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/25/2015 05:45
Benzene	< 1.00	ug/L		9/25/2015 05:45
Ethylbenzene	< 2.00	ug/L		9/25/2015 05:45
Isopropylbenzene	< 2.00	ug/L		9/25/2015 05:45
m,p-Xylene	< 2.00	ug/L		9/25/2015 05:45
Methyl tert-butyl Ether	< 2.00	ug/L		9/25/2015 05:45
Naphthalene	< 5.00	ug/L		9/25/2015 05:45
n-Butylbenzene	< 2.00	ug/L		9/25/2015 05:45
n-Propylbenzene	< 2.00	ug/L		9/25/2015 05:45
o-Xylene	< 2.00	ug/L		9/25/2015 05:45
p-Isopropyltoluene	< 2.00	ug/L		9/25/2015 05:45
sec-Butylbenzene	< 2.00	ug/L		9/25/2015 05:45
tert-Butylbenzene	< 2.00	ug/L		9/25/2015 05:45
Toluene	< 2.00	ug/L		9/25/2015 05:45

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	109	81.1 - 116		9/25/2015 05:45
4-Bromofluorobenzene	90.2	82.3 - 113		9/25/2015 05:45
Pentafluorobenzene	92.4	91.1 - 110		9/25/2015 05:45
Toluene-D8	97.5	91.4 - 106		9/25/2015 05:45

Method Reference(s): EPA 8260C
EPA 5030
Data File: x26404.D



Client: Lu Engineers, Inc.

Project Reference: Scio St 4226

Sample Identifier: MW7-092315

Lab Sample ID: 153995-04

Date Sampled: 9/23/2015

Matrix: Groundwater

Date Received: 9/23/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/25/2015 06:09
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/25/2015 06:09
Benzene	< 1.00	ug/L		9/25/2015 06:09
Ethylbenzene	< 2.00	ug/L		9/25/2015 06:09
Isopropylbenzene	< 2.00	ug/L		9/25/2015 06:09
m,p-Xylene	< 2.00	ug/L		9/25/2015 06:09
Methyl tert-butyl Ether	< 2.00	ug/L		9/25/2015 06:09
Naphthalene	< 5.00	ug/L		9/25/2015 06:09
n-Butylbenzene	< 2.00	ug/L		9/25/2015 06:09
n-Propylbenzene	< 2.00	ug/L		9/25/2015 06:09
o-Xylene	< 2.00	ug/L		9/25/2015 06:09
p-Isopropyltoluene	< 2.00	ug/L		9/25/2015 06:09
sec-Butylbenzene	< 2.00	ug/L		9/25/2015 06:09
tert-Butylbenzene	< 2.00	ug/L		9/25/2015 06:09
Toluene	< 2.00	ug/L		9/25/2015 06:09

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	110	81.1 - 116		9/25/2015 06:09
4-Bromofluorobenzene	90.5	82.3 - 113		9/25/2015 06:09
Pentafluorobenzene	92.7	91.1 - 110		9/25/2015 06:09
Toluene-D8	97.1	91.4 - 106		9/25/2015 06:09

Method Reference(s): EPA 8260C
EPA 5030
Data File: x26405.D



Lab Project ID: 153995

Client: **Lu Engineers, Inc.**

Project Reference: Scio St 4226

Sample Identifier: MW4-092315

Lab Sample ID: 153995-05

Date Sampled: 9/23/2015

Matrix: Groundwater

Date Received: 9/23/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/25/2015 06:32
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/25/2015 06:32
Benzene	< 1.00	ug/L		9/25/2015 06:32
Ethylbenzene	< 2.00	ug/L		9/25/2015 06:32
Isopropylbenzene	< 2.00	ug/L		9/25/2015 06:32
m,p-Xylene	< 2.00	ug/L		9/25/2015 06:32
Methyl tert-butyl Ether	< 2.00	ug/L		9/25/2015 06:32
Naphthalene	< 5.00	ug/L		9/25/2015 06:32
n-Butylbenzene	< 2.00	ug/L		9/25/2015 06:32
n-Propylbenzene	< 2.00	ug/L		9/25/2015 06:32
o-Xylene	< 2.00	ug/L		9/25/2015 06:32
p-Isopropyltoluene	< 2.00	ug/L		9/25/2015 06:32
sec-Butylbenzene	< 2.00	ug/L		9/25/2015 06:32
tert-Butylbenzene	< 2.00	ug/L		9/25/2015 06:32
Toluene	< 2.00	ug/L		9/25/2015 06:32

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	108	81.1 - 116		9/25/2015 06:32
4-Bromofluorobenzene	90.1	82.3 - 113		9/25/2015 06:32
Pentafluorobenzene	91.7	91.1 - 110		9/25/2015 06:32
Toluene-D8	96.9	91.4 - 106		9/25/2015 06:32

Method Reference(s): EPA 8260C
EPA 5030
Data File: x26406.D



Lab Project ID: 153995

Client: **Lu Engineers, Inc.**

Project Reference: Scio St 4226

Sample Identifier: MW9-092315

Lab Sample ID: 153995-06

Date Sampled: 9/23/2015

Matrix: Groundwater

Date Received: 9/23/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/25/2015 06:55
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/25/2015 06:55
Benzene	1.20	ug/L		9/25/2015 06:55
Ethylbenzene	< 2.00	ug/L		9/25/2015 06:55
Isopropylbenzene	< 2.00	ug/L		9/25/2015 06:55
m,p-Xylene	< 2.00	ug/L		9/25/2015 06:55
Methyl tert-butyl Ether	< 2.00	ug/L		9/25/2015 06:55
Naphthalene	< 5.00	ug/L		9/25/2015 06:55
n-Butylbenzene	< 2.00	ug/L		9/25/2015 06:55
n-Propylbenzene	< 2.00	ug/L		9/25/2015 06:55
o-Xylene	< 2.00	ug/L		9/25/2015 06:55
p-Isopropyltoluene	< 2.00	ug/L		9/25/2015 06:55
sec-Butylbenzene	< 2.00	ug/L		9/25/2015 06:55
tert-Butylbenzene	< 2.00	ug/L		9/25/2015 06:55
Toluene	< 2.00	ug/L		9/25/2015 06:55

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	109	81.1 - 116		9/25/2015 06:55
4-Bromofluorobenzene	93.3	82.3 - 113		9/25/2015 06:55
Pentafluorobenzene	92.8	91.1 - 110		9/25/2015 06:55
Toluene-D8	98.5	91.4 - 106		9/25/2015 06:55

Method Reference(s): EPA 8260C
 EPA 5030
 Data File: x26407.D



Lab Project ID: 153995

Client: **Lu Engineers, Inc.**

Project Reference: Scio St 4226

Sample Identifier: MW8-092315

Lab Sample ID: 153995-07

Date Sampled: 9/23/2015

Matrix: Groundwater

Date Received: 9/23/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	848	ug/L		9/25/2015 10:15
1,3,5-Trimethylbenzene	115	ug/L		9/25/2015 10:15
Benzene	39.1	ug/L		9/25/2015 10:15
Ethylbenzene	1060	ug/L		9/25/2015 10:15
Isopropylbenzene	62.4	ug/L		9/25/2015 10:15
m,p-Xylene	1400	ug/L		9/25/2015 10:15
Methyl tert-butyl Ether	< 20.0	ug/L		9/25/2015 10:15
Naphthalene	266	ug/L		9/25/2015 10:15
n-Butylbenzene	< 20.0	ug/L		9/25/2015 10:15
n-Propylbenzene	155	ug/L		9/25/2015 10:15
o-Xylene	52.2	ug/L		9/25/2015 10:15
p-Isopropyltoluene	< 20.0	ug/L		9/25/2015 10:15
sec-Butylbenzene	< 20.0	ug/L		9/25/2015 10:15
tert-Butylbenzene	< 20.0	ug/L		9/25/2015 10:15
Toluene	95.6	ug/L		9/25/2015 10:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	107	81.1 - 116		9/25/2015 10:15
4-Bromofluorobenzene	97.0	82.3 - 113		9/25/2015 10:15
Pentafluorobenzene	99.5	91.1 - 110		9/25/2015 10:15
Toluene-D8	102	91.4 - 106		9/25/2015 10:15

Method Reference(s): EPA 8260C
EPA 5030
Data File: x26415.D



Lab Project ID: 153995

Client: **Lu Engineers, Inc.**

Project Reference: Scio St 4226

Sample Identifier: Trip Blank T-658

Lab Sample ID: 153995-08

Date Sampled: 9/23/2015

Matrix: Water

Date Received: 9/23/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/25/2015 07:18
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/25/2015 07:18
Benzene	< 1.00	ug/L		9/25/2015 07:18
Ethylbenzene	< 2.00	ug/L		9/25/2015 07:18
Isopropylbenzene	< 2.00	ug/L		9/25/2015 07:18
m,p-Xylene	< 2.00	ug/L		9/25/2015 07:18
Methyl tert-butyl Ether	< 2.00	ug/L		9/25/2015 07:18
Naphthalene	< 5.00	ug/L		9/25/2015 07:18
n-Butylbenzene	< 2.00	ug/L		9/25/2015 07:18
n-Propylbenzene	< 2.00	ug/L		9/25/2015 07:18
o-Xylene	< 2.00	ug/L		9/25/2015 07:18
p-Isopropyltoluene	< 2.00	ug/L		9/25/2015 07:18
sec-Butylbenzene	< 2.00	ug/L		9/25/2015 07:18
tert-Butylbenzene	< 2.00	ug/L		9/25/2015 07:18
Toluene	< 2.00	ug/L		9/25/2015 07:18

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	113	81.1 - 116		9/25/2015 07:18
4-Bromofluorobenzene	92.0	82.3 - 113		9/25/2015 07:18
Pentafluorobenzene	91.1	91.1 - 110		9/25/2015 07:18
Toluene-D8	97.9	91.4 - 106		9/25/2015 07:18

Method Reference(s): EPA 8260C
EPA 5030
Data File: x26408.D



Lab Project ID: 153995

Client: Lu Engineers, Inc.

Project Reference: Scio St 4226

Sample Identifier: Blind Dup

Lab Sample ID: 153995-09

Date Sampled: 9/23/2015

Matrix: Groundwater

Date Received: 9/23/2015

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 2.00	ug/L		9/25/2015 07:41
1,3,5-Trimethylbenzene	< 2.00	ug/L		9/25/2015 07:41
Benzene	< 1.00	ug/L		9/25/2015 07:41
Ethylbenzene	< 2.00	ug/L		9/25/2015 07:41
Isopropylbenzene	< 2.00	ug/L		9/25/2015 07:41
m,p-Xylene	< 2.00	ug/L		9/25/2015 07:41
Methyl tert-butyl Ether	< 2.00	ug/L		9/25/2015 07:41
Naphthalene	< 5.00	ug/L		9/25/2015 07:41
n-Butylbenzene	< 2.00	ug/L		9/25/2015 07:41
n-Propylbenzene	< 2.00	ug/L		9/25/2015 07:41
o-Xylene	< 2.00	ug/L		9/25/2015 07:41
p-Isopropyltoluene	< 2.00	ug/L		9/25/2015 07:41
sec-Butylbenzene	< 2.00	ug/L		9/25/2015 07:41
tert-Butylbenzene	< 2.00	ug/L		9/25/2015 07:41
Toluene	< 2.00	ug/L		9/25/2015 07:41

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	110	81.1 - 116		9/25/2015 07:41
4-Bromofluorobenzene	89.5	82.3 - 113		9/25/2015 07:41
Pentafluorobenzene	93.1	91.1 - 110		9/25/2015 07:41
Toluene-D8	98.1	91.4 - 106		9/25/2015 07:41

Method Reference(s): EPA 8260C
EPA 5030
Data File: x26409.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 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.

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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 re-perform 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.

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179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:

INVOICE TO:

LAB PROJECT ID

CLIENT: W ENGENERS
 ADDRESS: 120 SWANSON RD
 CITY: PITTSFORD NY 14534
 STATE: NY
 ZIP: 14534
 PHONE: 585-385-7414

CLIENT: JANE
 ADDRESS: JANE FOREST GARDENS
 CITY: WATSONVILLE CA
 STATE: CA
 ZIP: 95070
 PHONE: 408-853-1234

Matrix Codes:
 AQ - Aqueous Liquid
 NAQ - Non-Aqueous Liquid
 WA - Water
 WG - Groundwater
 DW - Drinking Water
 WW - Wastewater
 SO - Soil
 SL - Sludge
 SD - Solid
 PT - Paint
 WP - Wipe
 CK - Caulk
 AR - Air

Requested Analysis: STARS VOC

Quotation #: 153995

Email: achenet@glucip.com

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GARAB	SAMPLE IDENTIFIER	MATRIX	NO. OF SAMPLES	REMARKS	PARADIGM LAB SAMPLE NUMBER
1 9/23/15	0910	X	X	MWS-092315	WG	2		01
2	0920	X	X	MW6-092315	WG	2		02
3	0930	X	X	MW2-092315	WG	2		03
4	0940	X	X	MW7-092315	WG	2		04
5	0950	X	X	MW4-092315	WG	2		05
6	1000	X	X	MW9-092315	WG	2		06
7	1005	X	X	MW8-092315	WG	2		07
8				TRP BURR 7.658" dia	W	1		08
9			X	BURR DTP	WG	2		09
10								

Turnaround Time

Availability contingent upon lab approval; additional fees may apply.

Report Supplements

Standard 5 day Batch QC Basic EDD
 Rush 3 day Category A NYSDEC EDD
 Rush 2 day Category B
 Rush 1 day
 Other Other EDD
 please indicate: _____

Sampled By: AMI CHESTER W ENGENERS 9/23/15 1150

Relinquished By: [Signature] 9/23/15 1155

Received By: [Signature] 9/23/15 1424

Received @ Lab By: [Signature]

Date/Time: 9/23/15 1155

Date/Time: 9/23/15 1424

Total Cost:

P.L.F.

90°C ice started in field 9/23/15 12:00

10/2

2012



Chain of Custody Supplement

Client: Lu Eng
Lab Project ID: 153995

Completed by: Molytail
Date: 9/23/15

Sample Condition Requirements Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Preservation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<u>9°C icd started in field 9/23/15 1206</u>		
Sufficient Sample Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		