
PERIODIC REVIEW REPORT

275 FRANKLIN STREET SITE (BCP SITE No. C915208)
AND
432 PEARL STREET SITE (BCP SITE No. C915237)

BUFFALO, NEW YORK

May 2020

B0156-019-002

Prepared for:

BUFFALO DEVELOPMENT CORPORATION

Prepared By:



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PERIODIC REVIEW REPORT
275 Franklin Street Site (BCP Site No. C915208) &
432 Pearl Street Site (BCP Site No. C915237)

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1.3 Compliance

At the time of the annual Site inspection (04/1/2020), the Site was fully compliant with the NYSDEC-approved SMP (Ref 2).

1.4 Recommendations

Based on observations recorded during the Site inspection and IC/EC certification, no modifications are recommended for these Sites.

6. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting.

These additional final remedial actions were completed at the Site from April 2014 to December 2016; the asphalt repair was completed in September 2017. The remedial program was successful in achieving the remedial objectives for the Sites and are described in more detail in the NYSDEC-approved July 2017 Final Engineering Report (FER; Ref. 8). NYSDEC issued Certificates of Completion (COCs) for 275 Franklin Street Site on December 27, 2017 and 432 Pearl Street Site on December 28, 2017.

4.3 Annual Inspection and Certification Program

The Annual Inspection and Certification Program outlines requirements for certifying and attesting that the IC/ECs employed on the Sites are unchanged from the original design and/or previous certification. The Annual Certification includes a Site inspection and completion of the NYSDEC's IC/EC Certification Form. The Site inspection is intended to verify that the IC/ECs:

- Are in place and effective.
- Are performing as designed.
- That nothing has occurred that would impair the ability of the controls to protect the public health and environment.
- That nothing has occurred that would constitute a violation or failure to comply with any operation and maintenance plan for such controls.
- Access is available to the Site to evaluate continued maintenance of such controls.

Inspection of 275 Franklin Street Site and 432 Pearl Street Site was conducted by Ms. Lori Riker, P.E. of Benchmark on April 1, 2020. Ms. Riker is a licensed and registered NY State Professional Engineer, which meets the requirements of a Qualified Environmental Professional (QEP) per 6NYCRR Part 375.12. At the time of the inspection, no new redevelopment activities were noted on either the 275 Franklin Street or 432 Pearl Street Sites. The asphalt cover present on both Sites was intact and functioning as intended. No observable indication of intrusive activities was noted during the Site inspection.

Appendix A includes the completed Site Management PRR Notice – Institutional and Engineering Controls Certification Forms. Appendix B includes a PRR photo log.

4.4 Operation, Monitoring and Maintenance Plan

The Operation, Monitoring and Maintenance (OM&M) Plan describes the measures necessary to operate, monitor, and maintain the mechanical components of the remedy selected for the Site and is more fully described in Section 4.0 of the SMP.

Information on non-mechanical Engineering Controls (i.e., cover system) is provided in Section 4.1 of this PRR.

7.0 DECLARATION/LIMITATIONS

Benchmark Environmental Engineering & Science, PLLC personnel conducted the annual site inspection for BCP Site Nos. C915208 and C915237 in Buffalo, New York, according to generally accepted practices. This report complies with the scope of work provided to Buffalo Development Corporation by Benchmark Environmental Engineering & Science, PLLC.

This PRR has been prepared for the exclusive use of Buffalo Development Corporation. The contents of this PRR are limited to information available at the time of the Site inspection. The findings herein may be relied upon only at the discretion of Buffalo Development Corporation. Use of or reliance upon this PRR or its findings by any other person or entity is prohibited without written permission of Benchmark Environmental Engineering & Science, PLLC.

FIGURES

APPENDIX A

INSTITUTIONAL & ENGINEERING CONTROLS CERTIFICATION FORMS

APPENDIX A1

SITE No. C915208

IC CERTIFICATIONS
 SITE NO. C915237

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I Jessica Croce at 275 Franklin Street
 print name print business address

am certifying as President of Buffalo Development Corp. (Owner or Remedial Party)

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

Jessica R. Croce
 Signature of Owner, Remedial Party, or Designated Representative
 Rendering Certification

5/26/2020
 Date

IC/EC CERTIFICATIONS

Box 7

Signature

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

I Lori Riker, P.E. at 2558 Hamburg Turnpike, Suite 300
Buffalo, New York 14218
print name print business address

am certifying as a Owner
(Owner or Remedial Party)

Lori Riker
Signature of , for the Owner or Remedial Party,
Rendering Certification



Stamp
(Required for PE)

05/27/2020
Date

APPENDIX B

PHOTOGRAPHIC LOG

APPENDIX C

ASD SYSTEM LOGS

Project Name: 275 FRANKLIN ST. SITE**Lab Number:** L1955797**Project Number:** B0156-019-002-001**Report Date:** 11/27/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 11/25/19 21:18
 Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,09-12 Batch: WG1314137-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	95		70-130

Project Name: 275 FRANKLIN ST. SITE**Lab Number:** L1955797**Project Number:** B0156-019-002-001**Report Date:** 11/27/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 11/26/19 20:36
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-09 Batch: WG1314542-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	112		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L1955797

Project Number: B0156-019-002-001

Report Date: 11/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,09-12 Batch: WG1314137-3 WG1314137-4								
Methylene chloride	85		86		70-130	1		20
1,1-Dichloroethane	86		87		70-130	1		20
Chloroform	82		84		70-130	2		20
Carbon tetrachloride	83		84		63-132	1		20
1,2-Dichloropropane	89		91		70-130	2		20
Dibromochloromethane	80		80		63-130	0		20
1,1,2-Trichloroethane	84		83		70-130	1		20
Tetrachloroethene	82		81		70-130	1		20
Chlorobenzene	83		83		75-130	0		20
Trichlorofluoromethane	75		74		62-150	1		20
1,2-Dichloroethane	81		81		70-130	0		20
1,1,1-Trichloroethane	78		80		67-130	3		20
Bromodichloromethane	81		81		67-130	0		20
trans-1,3-Dichloropropene	83		82		70-130	1		20
cis-1,3-Dichloropropene	85		87		70-130	2		20
Bromoform	75		77		54-136	3		20
1,1,2,2-Tetrachloroethane	80		81		67-130	1		20
Benzene	87		89		70-130	2		20
Toluene	82		82		70-130	0		20
Ethylbenzene	79		80		70-130	1		20
Chloromethane	75		78		64-130	4		20
Bromomethane	46		61		39-139	28	Q	20
Vinyl chloride	86		86		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L1955797

Project Number: B0156-019-002-001

Report Date: 11/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,09-12 Batch: WG1314137-3 WG1314137-4								
Chloroethane	74		77		55-138	4		20
1,1-Dichloroethene	84		84		61-145	0		20
trans-1,2-Dichloroethene	86		86		70-130	0		20
Trichloroethene	86		86		70-130	0		20
1,2-Dichlorobenzene	86		88		70-130	2		20
1,3-Dichlorobenzene	85		88		70-130	3		20
1,4-Dichlorobenzene	85		87		70-130	2		20
Methyl tert butyl ether	82		83		63-130	1		20
p/m-Xylene	80		80		70-130	0		20
o-Xylene	80		80		70-130	0		20
cis-1,2-Dichloroethene	90		89		70-130	1		20
Styrene	80		80		70-130	0		20
Dichlorodifluoromethane	57		55		36-147	4		20
Acetone	84		89		58-148	6		20
Carbon disulfide	80		81		51-130	1		20
2-Butanone	82		90		63-138	9		20
4-Methyl-2-pentanone	83		87		59-130	5		20
2-Hexanone	75		77		57-130	3		20
Bromochloromethane	94		90		70-130	4		20
1,2-Dibromoethane	84		84		70-130	0		20
1,2-Dibromo-3-chloropropane	81		84		41-144	4		20
Isopropylbenzene	81		85		70-130	5		20
1,2,3-Trichlorobenzene	87		89		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE

Project Number: B0156-019-002-001

Lab Number: L1955797

Report Date: 11/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,09-12 Batch: WG1314137-3 WG1314137-4								
1,2,4-Trichlorobenzene	85		88		70-130	3		20
Methyl Acetate	86		87		70-130	1		20
Cyclohexane	88		90		70-130	2		20
1,4-Dioxane	76		84		56-162	10		20
Freon-113	83		83		70-130	0		20
Methyl cyclohexane	83		85		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		84		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	104		104		70-130
Dibromofluoromethane	96		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L1955797

Project Number: B0156-019-002-001

Report Date: 11/27/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-09 Batch: WG1314542-3 WG1314542-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	120		120		63-132	0		20
1,2-Dichloropropane	99		99		70-130	0		20
Dibromochloromethane	99		99		63-130	0		20
1,1,2-Trichloroethane	96		93		70-130	3		20
Tetrachloroethene	100		99		70-130	1		20
Chlorobenzene	96		98		75-130	2		20
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	100		110		67-130	10		20
trans-1,3-Dichloropropene	96		94		70-130	2		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Bromoform	90		91		54-136	1		20
1,1,2,2-Tetrachloroethane	93		91		67-130	2		20
Benzene	100		100		70-130	0		20
Toluene	95		94		70-130	1		20
Ethylbenzene	100		99		70-130	1		20
Chloromethane	100		100		64-130	0		20
Bromomethane	94		90		39-139	4		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L1955797

Project Number: B0156-019-002-001

Report Date: 11/27/19

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-09 Batch: WG1314542-3 WG1314542-4									
Chloroethane	110		110		55-138		0		20
1,1-Dichloroethene	100		97		61-145		3		20
trans-1,2-Dichloroethene	100		100		70-130		0		20
Trichloroethene	110		110		70-130		0		20
1,2-Dichlorobenzene	94		93		70-130		1		20
1,3-Dichlorobenzene	92		94		70-130		2		20
1,4-Dichlorobenzene	92		92		70-130		0		20
Methyl tert butyl ether	110		100		63-130		10		20
p/m-Xylene	100		100		70-130		0		20
o-Xylene	100		100		70-130		0		20
cis-1,2-Dichloroethene	100		100		70-130		0		20
Styrene	100		100		70-130		0		20
Dichlorodifluoromethane	100		98		36-147		2		20
Acetone	110		110		58-148		0		20
Carbon disulfide	94		100		51-130		6		20
2-Butanone	110		110		63-138		0		20
4-Methyl-2-pentanone	95		88		59-130		8		20
2-Hexanone	100		100		57-130		0		20
Bromochloromethane	100		99		70-130		1		20
1,2-Dibromoethane	100		95		70-130		5		20
1,2-Dibromo-3-chloropropane	89		92		41-144		3		20
Isopropylbenzene	94		94		70-130		0		20
1,2,3-Trichlorobenzene	98		96		70-130		2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE

Project Number: B0156-019-002-001

Lab Number: L1955797

Report Date: 11/27/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-09 Batch: WG1314542-3 WG1314542-4								
1,2,4-Trichlorobenzene	93		93		70-130	0		20
Methyl Acetate	110		110		70-130	0		20
Cyclohexane	100		110		70-130	10		20
1,4-Dioxane	108		128		56-162	17		20
Freon-113	110		110		70-130	0		20
Methyl cyclohexane	100		100		70-130	0		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	114		117		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	111		104		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L1955797

Project Number: B0156-019-002-001

Report Date: 11/27/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,09-12 QC Batch ID: WG1314137-6 WG1314137-7 QC Sample: L1955797-10 Client ID: MW-24S												
Methylene chloride	ND	100	93	93		93	93		70-130	0		20
1,1-Dichloroethane	ND	100	97	97		95	95		70-130	2		20
Chloroform	7.6J	100	98	98		96	96		70-130	2		20
Carbon tetrachloride	ND	100	95	95		95	95		63-132	0		20
1,2-Dichloropropane	ND	100	99	99		98	98		70-130	1		20
Dibromochloromethane	ND	100	84	84		84	84		63-130	0		20
1,1,2-Trichloroethane	ND	100	87	87		86	86		70-130	1		20
Tetrachloroethene	1100	100	1100	0	Q	1100	0	Q	70-130	0		20
Chlorobenzene	ND	100	89	89		89	89		75-130	0		20
Trichlorofluoromethane	ND	100	85	85		86	86		62-150	1		20
1,2-Dichloroethane	ND	100	86	86		86	86		70-130	0		20
1,1,1-Trichloroethane	ND	100	90	90		91	91		67-130	1		20
Bromodichloromethane	ND	100	86	86		88	88		67-130	2		20
trans-1,3-Dichloropropene	ND	100	84	84		85	85		70-130	1		20
cis-1,3-Dichloropropene	ND	100	87	87		88	88		70-130	1		20
Bromoform	ND	100	78	78		78	78		54-136	0		20
1,1,2,2-Tetrachloroethane	ND	100	81	81		83	83		67-130	2		20
Benzene	ND	100	98	98		98	98		70-130	0		20
Toluene	ND	100	90	90		89	89		70-130	1		20
Ethylbenzene	ND	100	87	87		87	87		70-130	0		20
Chloromethane	ND	100	86	86		86	86		64-130	0		20
Bromomethane	ND	100	40	40		54	54		39-139	30	Q	20
Vinyl chloride	ND	100	97	97		97	97		55-140	0		20

Matrix Spike Analysis Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L1955797

Project Number: B0156-019-002-001

Report Date: 11/27/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,09-12 QC Batch ID: WG1314137-6 WG1314137-7 QC Sample: L1955797-10 Client ID: MW-24S												
Chloroethane	ND	100	85	85		87	87		55-138	2		20
1,1-Dichloroethene	ND	100	98	98		99	99		61-145	1		20
trans-1,2-Dichloroethene	ND	100	99	99		97	97		70-130	2		20
Trichloroethene	ND	100	97	97		98	98		70-130	1		20
1,2-Dichlorobenzene	ND	100	90	90		91	91		70-130	1		20
1,3-Dichlorobenzene	ND	100	91	91		92	92		70-130	1		20
1,4-Dichlorobenzene	ND	100	89	89		91	91		70-130	2		20
Methyl tert butyl ether	ND	100	86	86		86	86		63-130	0		20
p/m-Xylene	ND	200	180	90		180	90		70-130	0		20
o-Xylene	ND	200	170	85		170	85		70-130	0		20
cis-1,2-Dichloroethene	ND	100	100	100		100	100		70-130	0		20
Styrene	ND	200	170	85		170	85		70-130	0		20
Dichlorodifluoromethane	ND	100	64	64		63	63		36-147	2		20
Acetone	ND	100	99	99		98	98		58-148	1		20
Carbon disulfide	ND	100	90	90		91	91		51-130	1		20
2-Butanone	ND	100	91	91		94	94		63-138	3		20
4-Methyl-2-pentanone	ND	100	79	79		81	81		59-130	3		20
2-Hexanone	ND	100	80	80		82	82		57-130	2		20
Bromochloromethane	ND	100	98	98		97	97		70-130	1		20
1,2-Dibromoethane	ND	100	87	87		87	87		70-130	0		20
1,2-Dibromo-3-chloropropane	ND	100	81	81		86	86		41-144	6		20
Isopropylbenzene	ND	100	92	92		91	91		70-130	1		20
1,2,3-Trichlorobenzene	ND	100	80	80		87	87		70-130	8		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-019-002-001

Lab Number: L1955797
Report Date: 11/27/19

Table with columns: Parameter, Native Sample, MS Added, MS Found, MS %Recovery, Qual, MSD Found, MSD %Recovery, Qual, Recovery Limits, RPD, Qual, RPD Limits. Rows include various chemical compounds like 1,2,4-Trichlorobenzene, Methyl Acetate, Cyclohexane, etc.

Table with columns: Surrogate, MS % Recovery, MS Qualifier, MSD % Recovery, MSD Qualifier, Acceptance Criteria. Rows include 1,2-Dichloroethane-d4, 4-Bromofluorobenzene, Dibromofluoromethane, Toluene-d8.



Project Name: 275 FRANKLIN ST. SITE

Lab Number: L1955797

Project Number: B0156-019-002-001

Report Date: 11/27/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1955797-08C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-09A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-09B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-09C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-10A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-10A1	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-10A2	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-10B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-10B1	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-10B2	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-10C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-10C1	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-10C2	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-11A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-11B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-11C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-12A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-12B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-12C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1955797-13A	Vial HCl preserved	A	NA		3.9	Y	Absent		ARCHIVE()
L1955797-13B	Vial HCl preserved	A	NA		3.9	Y	Absent		ARCHIVE()

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-019-002-001

Lab Number: L1955797
Report Date: 11/27/19

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-019-002-001

Lab Number: L1955797
Report Date: 11/27/19

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedances are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

Report Format: DU Report with 'J' Qualifiers



Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-019-002-001

Lab Number: L1955797
Report Date: 11/27/19

Data Qualifiers

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-019-002-001

Lab Number: L1955797
Report Date: 11/27/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



WATER LEVEL MONITORING RECORD

Project Name: 275 Franklin Street Site

Client: Buffalo Development Corp.

Project No.: B0156-019-002

Location: Buffalo NY

Field Personnel: CMC/CCB

Date: 11/20/2019

Weather:

Well No.	Time	Top of Riser Elevation (fmsl)	Static Depth to Water (fbTOR)	Groundwater Elevation (fmsl)	Total Depth (fbTOR)	Last Total Depth Measurement (fbTOR)
PZ-1			-			
PZ-2			-			
PZ-3	8:12	9	11.29			
PZ-4R	8:41		11.36			
PZ-5	8:23		10.96			
PZ-6	8:17		10.96			
PZ-7	9:09		12.54			
PZ-8	8:57		12.22			
PZ-9	8:53		11.50			
PZ-10			-			
PZ-11	8:27		10.45			
PZ-12	8:34		10.53			
PZ-13	8:37		10.65			
PZ-14	9:55		10.32			
MW-5R	10:30		11.68			
MW-24S	1:00		10.52			
MW-23S	2:00		11.37			

Comments/Remarks:

PZ-2, metal ^{cover} cap destroyed, unable to remove PVC cap on riser
 PZ-10, unable to locate, possibly beneath parked car or paved over
 PZ-1, destroyed/paved over.

PREAPRED BY:

DATE:



ANALYTICAL REPORT

Lab Number:	L2014123
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Lori Riker
Phone:	(716) 856-0599
Project Name:	275 FRANKLIN ST. SITE
Project Number:	B0156-018-001
Report Date:	04/06/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2014123-01	PZ-6	WATER	275 FRANKLIN ST	04/01/20 08:05	04/01/20
L2014123-02	PZ-5	WATER	275 FRANKLIN ST	04/01/20 08:40	04/01/20
L2014123-03	PZ-4R	WATER	275 FRANKLIN ST	04/01/20 10:20	04/01/20
L2014123-04	PZ-13	WATER	275 FRANKLIN ST	04/01/20 09:15	04/01/20
L2014123-05	PZ-14	WATER	275 FRANKLIN ST	04/01/20 09:55	04/01/20
L2014123-06	PZ-11	WATER	275 FRANKLIN ST	04/01/20 11:20	04/01/20
L2014123-07	PZ-12	WATER	275 FRANKLIN ST	04/01/20 10:50	04/01/20
L2014123-08	MW-5R	WATER	275 FRANKLIN ST	04/01/20 09:30	04/01/20
L2014123-09	MW-24S	WATER	275 FRANKLIN ST	04/01/20 10:24	04/01/20
L2014123-10	MW-24D	WATER	275 FRANKLIN ST	04/01/20 11:25	04/01/20
L2014123-11	MW-23S	WATER	275 FRANKLIN ST	04/01/20 12:32	04/01/20
L2014123-12	BLIND DUP	WATER	275 FRANKLIN ST	04/01/20 08:00	04/01/20
L2014123-13	TRIP BLANK	WATER	275 FRANKLIN ST	04/01/20 00:00	04/01/20

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2014123-13: A sample identified as "TRIP BLANK" was received, but not listed on the Chain of Custody. This sample was not analyzed.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Michelle M. Morris

Michelle M. Morris

Title: Technical Director/Representative

Date: 04/06/20

ORGANICS

VOLATILES

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L2014123

Project Number: B0156-018-001

Report Date: 04/06/20

SAMPLE RESULTS

Lab ID: L2014123-01 **D**

Date Collected: 04/01/20 08:05

Client ID: PZ-6

Date Received: 04/01/20

Sample Location: 275 FRANKLIN ST

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 04/03/20 16:57

Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	190		ug/l	1.2	0.45	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

SAMPLE RESULTS

Lab ID: L2014123-02 D
Client ID: PZ-5
Sample Location: 275 FRANKLIN ST

Date Collected: 04/01/20 08:40
Date Received: 04/01/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/06/20 01:08
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	280		ug/l	1.2	0.45	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	100		70-130

Project Name: 275 FRANKLIN ST. SITE**Lab Number:** L2014123**Project Number:** B0156-018-001**Report Date:** 04/06/20**SAMPLE RESULTS**

Lab ID: L2014123-03 D

Date Collected: 04/01/20 10:20

Client ID: PZ-4R

Date Received: 04/01/20

Sample Location: 275 FRANKLIN ST

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	29		ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
Methyl Acetate	9.7	J	ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	610	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

SAMPLE RESULTS

Lab ID: L2014123-04
 Client ID: PZ-13
 Sample Location: 275 FRANKLIN ST

Date Collected: 04/01/20 09:15
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/03/20 16:34
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	21		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	8.9		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	1.5	J	ug/l	2.5	0.70	1
Trichloroethene	9.6		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1



Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

SAMPLE RESULTS

Lab ID: L2014123-05 D
 Client ID: PZ-14
 Sample Location: 275 FRANKLIN ST

Date Collected: 04/01/20 09:55
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/04/20 14:47
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethane	ND		ug/l	6.2	1.8	2.5
Chloroform	ND		ug/l	6.2	1.8	2.5
Carbon tetrachloride	ND		ug/l	1.2	0.34	2.5
1,2-Dichloropropane	ND		ug/l	2.5	0.34	2.5
Dibromochloromethane	ND		ug/l	1.2	0.37	2.5
1,1,2-Trichloroethane	ND		ug/l	3.8	1.2	2.5
Tetrachloroethene	98		ug/l	1.2	0.45	2.5
Chlorobenzene	ND		ug/l	6.2	1.8	2.5
Trichlorofluoromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dichloroethane	ND		ug/l	1.2	0.33	2.5
1,1,1-Trichloroethane	ND		ug/l	6.2	1.8	2.5
Bromodichloromethane	ND		ug/l	1.2	0.48	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	0.41	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	0.36	2.5
Bromoform	ND		ug/l	5.0	1.6	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	1.2	0.42	2.5
Benzene	ND		ug/l	1.2	0.40	2.5
Toluene	ND		ug/l	6.2	1.8	2.5
Ethylbenzene	ND		ug/l	6.2	1.8	2.5
Chloromethane	ND		ug/l	6.2	1.8	2.5
Bromomethane	ND		ug/l	6.2	1.8	2.5
Vinyl chloride	24		ug/l	2.5	0.18	2.5
Chloroethane	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethene	0.74	J	ug/l	1.2	0.42	2.5
trans-1,2-Dichloroethene	5.4	J	ug/l	6.2	1.8	2.5
Trichloroethene	28		ug/l	1.2	0.44	2.5
1,2-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

SAMPLE RESULTS

Lab ID: L2014123-05 D
 Client ID: PZ-14
 Sample Location: 275 FRANKLIN ST

Date Collected: 04/01/20 09:55
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,4-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl tert butyl ether	ND		ug/l	6.2	1.8	2.5
p/m-Xylene	ND		ug/l	6.2	1.8	2.5
o-Xylene	ND		ug/l	6.2	1.8	2.5
cis-1,2-Dichloroethene	340		ug/l	6.2	1.8	2.5
Styrene	ND		ug/l	6.2	1.8	2.5
Dichlorodifluoromethane	ND		ug/l	12	2.5	2.5
Acetone	ND		ug/l	12	3.6	2.5
Carbon disulfide	ND		ug/l	12	2.5	2.5
2-Butanone	ND		ug/l	12	4.8	2.5
4-Methyl-2-pentanone	ND		ug/l	12	2.5	2.5
2-Hexanone	ND		ug/l	12	2.5	2.5
Bromochloromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dibromoethane	ND		ug/l	5.0	1.6	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	6.2	1.8	2.5
Isopropylbenzene	ND		ug/l	6.2	1.8	2.5
1,2,3-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,2,4-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl Acetate	ND		ug/l	5.0	0.58	2.5
Cyclohexane	ND		ug/l	25	0.68	2.5
1,4-Dioxane	ND		ug/l	620	150	2.5
Freon-113	ND		ug/l	6.2	1.8	2.5
Methyl cyclohexane	ND		ug/l	25	0.99	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130



Project Name: 275 FRANKLIN ST. SITE**Lab Number:** L2014123**Project Number:** B0156-018-001**Report Date:** 04/06/20**SAMPLE RESULTS**

Lab ID: L2014123-06 D

Date Collected: 04/01/20 11:20

Client ID: PZ-11

Date Received: 04/01/20

Sample Location: 275 FRANKLIN ST

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
Methyl Acetate	ND		ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	610	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

SAMPLE RESULTS

Lab ID: L2014123-07 D
 Client ID: PZ-12
 Sample Location: 275 FRANKLIN ST

Date Collected: 04/01/20 10:50
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/04/20 15:33
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	1000		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	3.3	J	ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

SAMPLE RESULTS

Lab ID: L2014123-07 D
Client ID: PZ-12
Sample Location: 275 FRANKLIN ST

Date Collected: 04/01/20 10:50
Date Received: 04/01/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
Methyl Acetate	ND		ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	610	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

SAMPLE RESULTS

Lab ID: L2014123-08 D
 Client ID: MW-5R
 Sample Location: 275 FRANKLIN ST

Date Collected: 04/01/20 09:30
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/04/20 15:56
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	980		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	180		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

SAMPLE RESULTS

Lab ID: L2014123-08 D
 Client ID: MW-5R
 Sample Location: 275 FRANKLIN ST

Date Collected: 04/01/20 09:30
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	170		ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
Methyl Acetate	ND		ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	610	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

SAMPLE RESULTS

Lab ID: L2014123-09 D
 Client ID: MW-24S
 Sample Location: 275 FRANKLIN ST

Date Collected: 04/01/20 10:24
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/04/20 16:20
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	10	J	ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	990		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	3.8	J	ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

SAMPLE RESULTS

Lab ID: L2014123-09 D
 Client ID: MW-24S
 Sample Location: 275 FRANKLIN ST

Date Collected: 04/01/20 10:24
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	15	J	ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
Methyl Acetate	ND		ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	610	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

SAMPLE RESULTS

Lab ID: L2014123-10 D
Client ID: MW-24D
Sample Location: 275 FRANKLIN ST

Date Collected: 04/01/20 11:25
Date Received: 04/01/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/06/20 01:59
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	ND		ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	270		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	ND		ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.33	2
Benzene	ND		ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	ND		ug/l	2.0	0.14	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	0.73	J	ug/l	1.0	0.34	2
trans-1,2-Dichloroethene	1.4	J	ug/l	5.0	1.4	2
Trichloroethene	95		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/03/20 09:30
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1358167-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	0.69	J	ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/03/20 09:30
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1358167-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	96		70-130

Project Name: 275 FRANKLIN ST. SITE**Lab Number:** L2014123**Project Number:** B0156-018-001**Report Date:** 04/06/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/05/20 17:53
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02,10-11 Batch: WG1358539-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	99		70-130

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/05/20 16:34
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,12 Batch: WG1358575-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L2014123

Project Number: B0156-018-001

Report Date: 04/06/20

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1358167-3 WG1358167-4								
Methylene chloride	90		95		70-130	5		20
1,1-Dichloroethane	90		98		70-130	9		20
Chloroform	89		98		70-130	10		20
Carbon tetrachloride	93		100		63-132	7		20
1,2-Dichloropropane	92		99		70-130	7		20
Dibromochloromethane	83		89		63-130	7		20
1,1,2-Trichloroethane	88		94		70-130	7		20
Tetrachloroethene	92		97		70-130	5		20
Chlorobenzene	90		94		75-130	4		20
Trichlorofluoromethane	98		100		62-150	2		20
1,2-Dichloroethane	86		93		70-130	8		20
1,1,1-Trichloroethane	93		100		67-130	7		20
Bromodichloromethane	90		96		67-130	6		20
trans-1,3-Dichloropropene	85		90		70-130	6		20
cis-1,3-Dichloropropene	90		97		70-130	7		20
Bromoform	85		92		54-136	8		20
1,1,2,2-Tetrachloroethane	88		95		67-130	8		20
Benzene	95		100		70-130	5		20
Toluene	90		96		70-130	6		20
Ethylbenzene	90		94		70-130	4		20
Chloromethane	75		81		64-130	8		20
Bromomethane	45		54		39-139	18		20
Vinyl chloride	91		99		55-140	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L2014123

Project Number: B0156-018-001

Report Date: 04/06/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1358167-3 WG1358167-4								
1,2,4-Trichlorobenzene	73		81		70-130	10		20
Methyl Acetate	85		99		70-130	15		20
Cyclohexane	95		100		70-130	5		20
1,4-Dioxane	114		126		56-162	10		20
Freon-113	98		110		70-130	12		20
Methyl cyclohexane	96		100		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		94		70-130
Toluene-d8	98		96		70-130
4-Bromofluorobenzene	103		104		70-130
Dibromofluoromethane	99		101		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L2014123

Project Number: B0156-018-001

Report Date: 04/06/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-09 Batch: WG1358454-3 WG1358454-4								
1,2,4-Trichlorobenzene	84		86		70-130	2		20
Methyl Acetate	100		100		70-130	0		20
Cyclohexane	110		100		70-130	10		20
1,4-Dioxane	106		110		56-162	4		20
Freon-113	110		110		70-130	0		20
Methyl cyclohexane	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	121		122		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	107		107		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,12 Batch: WG1358575-3 WG1358575-4								
1,2,4-Trichlorobenzene	84		88		70-130	5		20
Methyl Acetate	94		100		70-130	6		20
Cyclohexane	100		100		70-130	0		20
1,4-Dioxane	102		108		56-162	6		20
Freon-113	100		100		70-130	0		20
Methyl cyclohexane	100		97		70-130	3		20

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
1,2-Dichloroethane-d4	102		102		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	99		100		70-130
Dibromofluoromethane	99		100		70-130

Matrix Spike Analysis**Batch Quality Control**

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-09 QC Batch ID: WG1358454-6 WG1358454-7 QC Sample: L2014123-09 Client ID: MW-24S												
1,2,4-Trichlorobenzene	ND	100	72	72		79	79		70-130	9		20
Methyl Acetate	ND	100	100	100		100	100		70-130	0		20
Cyclohexane	ND	100	110	110		110	110		70-130	0		20
1,4-Dioxane	ND	5000	4600	92		5000	100		56-162	8		20
Freon-113	ND	100	110	110		120	120		70-130	9		20
Methyl cyclohexane	ND	100	98J	98		110	110		70-130	12		20

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	124		120		70-130
4-Bromofluorobenzene	96		95		70-130
Dibromofluoromethane	108		108		70-130
Toluene-d8	100		102		70-130

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

GLOSSARY

Acronyms

- DL** - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- EDL** - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EMPC** - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
- EPA** - Environmental Protection Agency.
- LCS** - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD** - Laboratory Control Sample Duplicate: Refer to LCS.
- LFB** - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LOD** - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- LOQ** - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- MDL** - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS** - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
- MSD** - Matrix Spike Sample Duplicate: Refer to MS.
- NA** - Not Applicable.
- NC** - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NDPA/DPA** - N-Nitrosodiphenylamine/Diphenylamine.
- NI** - Not Ignitable.
- NP** - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
- RL** - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD** - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM** - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
- STLP** - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
- TEF** - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
- TEQ** - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
- TIC** - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 275 FRANKLIN ST. SITE

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- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: DU Report with 'J' Qualifiers



Project Name: 275 FRANKLIN ST. SITE
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Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-896-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 2		Date Rec'd in Lab 4/12/20	ALPHA Job # L2014123										
		Project Information Project Name: 275 Franklin St. Site Project Location: 275 Franklin St		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO #										
Client Information Client: Benchmark Env. Eng. Address: 2558 Hamburg Turnpk. Suite 300, Buffalo NY 14218 Phone: (716) 856-0599 Fax: Email: Lriker@bm-bk.com		Project # B0156-018-001 (Use Project name as Project #) <input type="checkbox"/> Project Manager: Candace Fox ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:										
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Category B Please specify Metals or TAL.				ANALYSIS			Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)									
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection		Sample Matrix	Sampler's Initials	TCL VOCs - M/TCL 8260							Total Bottles	
				Date Time												
24123	-01	PZ-6		4/1/2020	8:05	water	CCB	X								
	-02	PZ-5		4/1/2020	8:40		CCB	X								
	-03	PZ-4R		4/1/2020	10:20		CCB	X								
	-04	PZ-13		4/1/2020	9:15		CCB	X								
	-05	PZ-14		4/1/2020	9:55		CCB	X								
	-06	PZ-11		4/1/2020	11:20		CCB	X								
	-07	PZ-12		4/1/2020	10:50		CCB	X								
	-08	MW-5R		4/1/2020	9:30		CMC	X								
	-09	MW-24S		4/1/2020	10:24		CMC	X							MS/MSD collected	
	-10	MW-24D		4/1/2020	11:25		CMC	X								
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		V	A							Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)
				Relinquished By: Charlotte Llach 4/1/20		Date/Time 4/1/20 13:00 4/1/20 14:32		Received By: [Signature] [Signature]		Date/Time 4/1/20 1345 4/12/20 00:30						
Form No: 01-25 HC (rev. 30-Sept-2013)																

GROUNDWATER FIELD FORM

Project Name: 275 Franklin Street Site

 Date: **4/1/2020**

Location: Buffalo, NY

Project No.: B0156-019-002

Field Team: CMC/CCB

Well No.	PZ-4R		Diameter (inches):	1"		Sample Date / Time:	4/1/2020 1020		
Product Depth (fbTOR):	NA		Water Column (ft):	2.77		DTW when sampled:	1140		
DTW (static) (fbTOR):	11.39		One Well Volume (gal):	0.11		Purpose:	<input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample		
Total Depth (fbTOR):	14.16		Total Volume Purged (gal):			Purge Method:	peristaltic		
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1005	0 Initial	0	7.72	9.8	5669	67.0	8.62	-77	clear, neutral
1010	1	0.25	7.69	10.0	5782	226	8.97	-29	"
1013	2	0.5	7.73	10.0	5783	666	8.92	-6	"
1015	3	0.75	7.69	10.0	5646	457	8.98	10	"
1017	4	1.0	7.71	10.0	5580	839	9.12	26	"
5									
6									
7									
8									
9									
10									

Sample Information:

1020	S1	-	1.25	7.72	10.0	5525	900	9.20	37	"
1025	S2	11.40	1.50	7.74	10.0	5404	513	9.27	44	"

Well No.	MW-5R		Diameter (inches):	2"		Sample Date / Time:	4/1/2020 9:30		
Product Depth (fbTOR):	NA		Water Column (ft):	7.26		DTW when sampled:	11.78		
DTW (static) (fbTOR):	11.62		One Well Volume (gal):	1.18		Purpose:	<input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample		
Total Depth (fbTOR):	18.88		Total Volume Purged (gal):			Purge Method:	submersible pump		
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
9:10	0 Initial	0	6.42	10.4	6061	26.0	2.3	247	
9:13	1	1.0	6.72	11.0	5876	12.8	2.01	207	
9:16	2	2.0	6.92	10.0	5865	9.69	1.66	174	
9:19	3	3.0	6.98	11.0	5819	33.4	1.46	141	
9:22	4	3.5	7.04	11.2	5796	25.5	1.40	110	
9:25	5	4.5	7.06	11.0	5818	16.1	1.26	101	
6									
7									
8									
9									
10									

Sample Information:

9:30	S1	11.78	5.0	7.12	11.1	5826	31.2	1.23	92	
9:35	S2	11.74	5.5	7.14	11.6	5789	20.7	0.98	82	

REMARKS: BD collected at MW-5R

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Note: All water level measurements are in feet, distance from top of riser.

GROUNDWATER FIELD FORM

Project Name: 275 Franklin Street Site
Location: Buffalo, NY

Date: 4/1/2020
Field Team: CMC/CCB

Project No.: B0156-019-002

Well No. PZ-13		Diameter (inches): 1"			Sample Date / Time: 4/1/2020 915				
Product Depth (ftTOR): NA		Water Column (ft): 2.01			DTW when sampled: 10.67				
DTW (static) (ftTOR): 10.84		One Well Volume (gal): 0.082			Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample				
Total Depth (ftTOR): 12.85		Total Volume Purged (gal): 1.50			Purge Method: peristaltic				
Time	Water Level (ftTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
900	0 Initial	0	7.65	10.4	2613	71000	4.05	138	Slight turbidity
905	1 -	0.25	7.60	10.8	2537	342	3.08	120	Very clear, no odor
908	2 -	0.50	7.64	11.1	2509	142	2.96	92	""
912	3 -	0.75	7.68	11.1	2495	77.9	2.60	67	""
914	4 -	1.0	7.66	11.3	2499	79	2.47	53	""
	5								
	6								
	7								
	8								
	9								
	10								

Sample Information:

915	S1	-	1.25	7.62	11.2	2522	30.3	2.17	39	""
920	S2	10.67	1.50	7.65	11.0	2550	30.9	2.45	19	""

Well No. PZ-14		Diameter (inches): 1"			Sample Date / Time: 4/1/2020 955				
Product Depth (ftTOR): NA		Water Column (ft): 4.04			DTW when sampled: 10.31				
DTW (static) (ftTOR): 10.36		One Well Volume (gal): 0.19			Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample				
Total Depth (ftTOR): 15.05		Total Volume Purged (gal): 1.50			Purge Method: peristaltic				
Time	Water Level (ftTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
935	0 Initial	0	7.48	10.1	3951	128	2.00	-82	Clear, no odor
940	1 -	0.5	7.40	10.4	4137	17.5	2.03	-91	""
948	2 -	0.75	7.42	10.6	4163	11.8	1.88	-111	""
950	3 -	1.0	7.47	10.6	4077	10.8	2.21	-115	""
	4								
	5								
	6								
	7								
	8								
	9								
	10								

Sample Information:

955	S1	-	1.25	7.48	10.7	4111	11.1	1.78	-118	""
1000	S2	10.31	1.50	7.51	10.6	4050	8.41	2.10	-123	""

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY: CCB

Project Name: 275 Franklin Street Site

Date: 4/1/2020

Location: Buffalo, NY

Project No.: B0156-019-002

Field Team: CMC/CCB

Well No. MW-23S		Diameter (inches): 2"		Sample Date / Time: 4/1/2020 12:32					
Product Depth (fbTOR): NA		Water Column (ft): 7.13		DTW when sampled:					
DTW (static) (fbTOR): 11.42		One Well Volume (gal): 1.16		Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample					
Total Depth (fbTOR): 18.55		Total Volume Purged (gal):		Purge Method: submersible pump					
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
12:15	0 Initial	0	7.56	11.8	3008	553	1.54	33	cloudy, no odor
12:20	1 11.64	1.0	7.41	11.9	2989	47.1	1.05	36	
12:25	2 11.65	2.5	7.38	11.8	3087	47.1	1.38	40	
12:28	3 11.65	3.5	7.36	11.4	3152	11.4	1.12	46	clear, no odor
4									
5									
6									
7									
8									
9									
10									
Sample Information:									
12:32	S1 11.7	4.5	7.36	11.6	3161	10.2	1.29	48	
12:36	S2 11.71	5.0	7.40	12.0	3154	9.71	1.36	53	

Well No.		Diameter (inches):		Sample Date / Time:					
Product Depth (fbTOR):		Water Column (ft):		DTW when sampled:					
DTW (static) (fbTOR):		One Well Volume (gal):		Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> Purge & Sample					
Total Depth (fbTOR):		Total Volume Purged (gal):		Purge Method:					
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	0 Initial								
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
Sample Information:									
S1									
S2									

REMARKS: MW-23D
DTW 11.82
Total Depth 18.30

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Note: All water level measurements are in feet, distance from top of riser.

PREPARED BY:

WATER LEVEL MONITORING RECORD

Project Name: 275 Franklin Street Site

Client: Buffalo Development Corp.

Project No.: B0156-019-002

Location: Buffalo, NY

Field Personnel: CMC/CCB

Date: 4/1/2020

Weather:

Well No.	Time	Top of Riser Elevation (fmsl)	Static Depth to Water (fbTOR)	Groundwater Elevation (fmsl)	Total Depth (fbTOR)	Last Total Depth Measurement (fbTOR)
PZ-1	* Paved over					
PZ-2	* Can't get PVC cap off					
PZ-3	8:00		11.34		15.21	
PZ-4R						
PZ-5			11.01			
PZ-6			11.03			
PZ-7	7:50		12.59		15.49	
PZ-8	7:32		12.22		14.24	
PZ-9	7:38		11.24		15.27	
PZ-10	7:30	10.82	10.82		12.43	
PZ-11			10.49			
PZ-12			10.57			
PZ-13			10.84			
PZ-14			10.36			
MW-5R			11.62			
MW-24S			10.57			
MW-23S						
MW-2	J-plug wedged in well sideways w/ handle broken off unable to access well.					
Comments/Remarks:						
PZ-8 No PVC well cap, dirt/debris noted in + around top of well						
PZ-9 No PVC well cap (broken), dirt/debris noted in + around top of well						

PREAPRED BY: _____

DATE: _____

APPENDIX E

DATA USABILITY SUMMARY REPORTS

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, NY 12853

Phone (518) 251-4429

harry@frontiernet.net

March 17, 2020

Charlotte Clark
Turnkey Environmental Restoration
2558 Hamburg Turnpike Suite 300
Buffalo, NY 14218

RE: Validation of the 275 Franklin Street Site Analytical Laboratory Data
Alpha Analytical SDG Nos. L1955797
Data Usability Summary Report (DUSR)

Dear Ms. Clark:

Review has been completed for the data package generated by Alpha Analytical that pertains to samples collected between 11/20/19 the 275 Franklin Street site. Eleven aqueous samples and a field duplicate were processed for TCL volatiles. Analytical methodologies utilized are USEPA SW846.

The data package submitted by the laboratory contains full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

- * Data Completeness
- * Case Narrative
- * Custody Documentation
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Method Blanks
- * Matrix Spike Recoveries/Duplicate Correlations
- * Blind Field Duplicate Correlations
- * Laboratory Control Sample (LCS)
- * Instrumental Tunes
- * Initial and Continuing Calibration Standards
- * Method Compliance
- * Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review, as discussed in NYS DER-10 Appendix B Section 2.0 (c). Documentation of the outlying parameters cited in this report can be found in the laboratory data package.

In summary, results for the samples are usable either as reported or with minor qualification as estimated, with the exception of those for 1,4-dioxane. The results for 1,4-dioxane are rejected due to poor responses inherent in the methodology.

Data completeness, representativeness, reproducibility, sensitivity, comparability, and accuracy and precision are acceptable.

Validation qualifier definitions and the client sample identification summary are attached to this text. Also submitted is the Alpha EQUIS EDD with recommended qualifiers/edits applied in red.

Blind Field Duplicate Correlations

The field duplicate evaluation was performed on MW-23S, and shows correlations within validation guidelines.

TCL Volatile Analyses by EPA 8260C

Results for 1,4-dioxane in the samples are rejected due to low responses in the calibration standards. Other calibration standard responses meet validation guidelines, with the exception of the following, results for which have been qualified as estimated in the indicated associated samples: bromomethane, dichlorodifluoromethane, and bromoform (25%D to 54%D) in all samples except MW-23S and Blind Dup.

Holding times were met. Surrogate and internal standard responses are acceptable. Blanks show no contamination.

Matrix spikes of MW-24S are within validation guidelines.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

Attachments: Validation Qualifier Definitions
 Sample Identifications
 Qualified Laboratory EQUIS EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

- U** The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J** The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- J-** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- J+** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- UJ** The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
- NJ** The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- R** The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
- EMPC** The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Sample Summaries

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-019-002-001

Lab Number: L1955797
Report Date: 11/27/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1955797-01	PZ-6	WATER	275 FRANKLIN STREET, BUFFALO, NY	11/20/19 08:55	11/20/19
L1955797-02	PZ-5	WATER	275 FRANKLIN STREET, BUFFALO, NY	11/20/19 09:16	11/20/19
L1955797-03	PZ-4R	WATER	275 FRANKLIN STREET, BUFFALO, NY	11/20/19 11:40	11/20/19
L1955797-04	MW-5R	WATER	275 FRANKLIN STREET, BUFFALO, NY	11/20/19 10:55	11/20/19
L1955797-05	PZ-13	WATER	275 FRANKLIN STREET, BUFFALO, NY	11/20/19 10:38	11/20/19
L1955797-06	PZ-14	WATER	275 FRANKLIN STREET, BUFFALO, NY	11/20/19 10:58	11/20/19
L1955797-07	PZ-11	WATER	275 FRANKLIN STREET, BUFFALO, NY	11/20/19 10:05	11/20/19
L1955797-08	PZ-12	WATER	275 FRANKLIN STREET, BUFFALO, NY	11/20/19 11:28	11/20/19
L1955797-09	MW-24D	WATER	275 FRANKLIN STREET, BUFFALO, NY	11/20/19 12:55	11/20/19
L1955797-10	MW-24S	WATER	275 FRANKLIN STREET, BUFFALO, NY	11/20/19 13:15	11/20/19
L1955797-11	MW-23S	WATER	275 FRANKLIN STREET, BUFFALO, NY	11/20/19 13:55	11/20/19
L1955797-12	BLIND DUP	WATER	275 FRANKLIN STREET, BUFFALO, NY	11/20/19 08:00	11/20/19
L1955797-13	TRIP-BLANK	WATER	275 FRANKLIN STREET, BUFFALO, NY	11/20/19 08:00	11/20/19

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, NY 12853

Phone (518) 251-4429

harry@frontiernet.net

April 20, 2020

Charlotte Clark
Turnkey Environmental Restoration
2558 Hamburg Turnpike Suite 300
Buffalo, NY 14218

RE: Validation of the 275 Franklin Street Site Analytical Laboratory Data
Alpha Analytical SDG Nos. L2014123
Data Usability Summary Report (DUSR)

Dear Ms. Clark:

Review has been completed for the data package generated by Alpha Analytical that pertains to samples collected between 04/01/20 the 275 Franklin Street site. Eleven aqueous samples and a field duplicate were processed for TCL volatiles by USEPA SW846 method 8260C.

The data package submitted by the laboratory contains full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

- * Data Completeness
- * Case Narrative
- * Custody Documentation
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Method Blanks
- * Matrix Spike Recoveries/Duplicate Correlations
- * Blind Field Duplicate Correlations
- * Laboratory Control Sample (LCS)
- * Instrumental Tunes
- * Initial and Continuing Calibration Standards
- * Method Compliance
- * Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review, as discussed in NYS DER-10 Appendix B Section 2.0 (c). Documentation of the outlying parameters cited in this report can be found in the laboratory data package.

In summary, results for the samples are usable either as reported or with minor qualification as estimated, with the exception of those for 1,4-dioxane. The results for 1,4-dioxane are rejected due to poor responses inherent in the methodology.

Data completeness, representativeness, reproducibility, sensitivity, comparability, and accuracy and precision are acceptable.

Validation qualifier definitions and the client sample identification summary are attached to this text. Also submitted is the Alpha EQUIS EDD with recommended qualifiers/edits applied in red.

Blind Field Duplicate Correlations

The field duplicate evaluation was performed on MW-5R, and shows correlations within validation guidelines.

TCL Volatile Analyses by EPA 8260C

Results for 1,4-dioxane in the samples are rejected due to low responses in the calibration standards. Other calibration standard responses meet validation guidelines, with the exception of the following, results for which have been qualified as estimated in the indicated associated samples:

- Bromomethane, 1,2,3-trichlorobenzene, and 1,2,4-trichlorobenzene (26%D to 55%D) in PZ-4R, PZ-5, PZ-6, and PZ-13
- Bromomethane (40%D) in MW-5R, MW-24S, PZ-11, PZ-12, and PZ-14

Due to presence in the associated method blank, the detected results for methyl acetate in the project samples are considered external contamination and have been edited to reflect non-detection at the reporting limits.

Holding times were met. Surrogate and internal standard responses are acceptable.

Matrix spikes of MW-24S are within validation guidelines, with the exception of the recoveries for bromomethane (34% and 38%). The result for that compound in that parent sample has been qualified as estimated in value.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

Attachments: Validation Qualifier Definitions
 Sample Identifications
 Qualified Laboratory EQUIS EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

- U** The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J** The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- J-** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- J+** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- UJ** The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
- NJ** The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- R** The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
- EMPC** The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Sample Summaries

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L2014123
Report Date: 04/06/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2014123-01	PZ-6	WATER	275 FRANKLIN ST	04/01/20 08:05	04/01/20
L2014123-02	PZ-5	WATER	275 FRANKLIN ST	04/01/20 08:40	04/01/20
L2014123-03	PZ-4R	WATER	275 FRANKLIN ST	04/01/20 10:20	04/01/20
L2014123-04	PZ-13	WATER	275 FRANKLIN ST	04/01/20 09:15	04/01/20
L2014123-05	PZ-14	WATER	275 FRANKLIN ST	04/01/20 09:55	04/01/20
L2014123-06	PZ-11	WATER	275 FRANKLIN ST	04/01/20 11:20	04/01/20
L2014123-07	PZ-12	WATER	275 FRANKLIN ST	04/01/20 10:50	04/01/20
L2014123-08	MW-5R	WATER	275 FRANKLIN ST	04/01/20 09:30	04/01/20
L2014123-09	MW-24S	WATER	275 FRANKLIN ST	04/01/20 10:24	04/01/20
L2014123-10	MW-24D	WATER	275 FRANKLIN ST	04/01/20 11:25	04/01/20
L2014123-11	MW-23S	WATER	275 FRANKLIN ST	04/01/20 12:32	04/01/20
L2014123-12	BLIND DUP	WATER	275 FRANKLIN ST	04/01/20 08:00	04/01/20
L2014123-13	TRIP BLANK	WATER	275 FRANKLIN ST	04/01/20 00:00	04/01/20