89 LaSalle Avenue Site

ERIE, NEW YORK

Periodic Review Report

NYSDEC Site Number: C915283

Prepared for:
Legacy LaSalle LLC
89 LaSalle Avenue Site
Cheektowaga, New York 14225

Prepared by:
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REVISED JUNE 2021

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1.0 SITE OVERVIEW

1.1 Site Location & Description

The site is comprised of two parcels, addressed at 89 LaSalle Avenue and a portion (0.73 acre) of 71 NYL & W RR (aka 71 Cordova Ave) both located in the City of Buffalo, County of Erie, New York and identified respectively as SBL 79.70-2-5.1 and SBL 79.70-2-16.111 on the Erie County Tax Map. The Brownfields Cleanup Program (BCP) site is an approximately 9.2-acre area, and the total parcel is 10.8 acres bounded by commercial properties and LaSalle Avenue to the north, McCarthy Park to the south, residential apartments to the east (Camelot Ct.), and residential properties located on William Price Parkway to the west (see Site Vicinity Map, Figure 1-1). The site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Site# C915283, which was executed on June 6, 2014.

1.2 Nature and Extent of Contamination Prior to Remediation

Prior to site remediation under the Brownfields Cleanup Program (BCP), a Remedial Investigation (RI) was performed to characterize the nature and extent of contamination at the site. The RI activities conducted on the Site as preparation for remedial efforts included the installation of four (4) wells, the advancement of fifteen (15) borings, the excavation of nineteen (19) test pits, and the collection of four (4) surface soil samples. Generally, the RI determined that the historic use of the Site as a landfill was evident in analytical results from the initial RI identifying the widespread presence of low levels of heavy metals and Polycyclic Aromatic Hydrocarbons (PAHs) as the Constituents of Primary Concern (COPCs) in soil/fill across the Site, and specifically at several locations identified across the central portion of the Site where the COPC concentrations were elevated relative the rest of the Site. Previous investigations had been conducted on portions of the BCP Site referenced as the LaSalle Reservoir Site, which generally encompassed the southeastern half of the Site (the former Buffalo Crushed Stone quarry area).

Four (4) impacted locations identified during the initial RI were subject to a supplemental remedial investigation delineating the elevated COPC impacts detected in these areas of concern. Findings from the supplemental test pit investigation of the four impacted areas of interest confirmed that there was no evidence of significant lateral or vertical contamination surrounding the original soil boring locations. Levels of COPCs detected in the supplemental test pits indicated that concentrations of COPCs, where detected, were below site-specific soil cleanup objectives as proposed in the Final RI Report and consistent with observations of RI analytical results across the site. The heterogeneous nature of the soil/fill across the Site, and analytical results indicating widespread low-level concentrations of COPCs above the Restricted Residential SCOs throughout Site overburden, demonstrated that a source or sources of contamination found at the four original areas of concern was not present.

1.3 Site Remedial Program

The site was remediated in accordance with the NYSDEC-approved 89 LaSalle RI-IRM-AA Report dated January 2015.

The following is a summary of the Remedial Actions performed at the site:

- Excavation of soil/fill identified at four RI boring locations as significantly exceeding restricted residential SCOs, to a minimum depth of 5 feet or bedrock where applicable;
- Construction and maintenance of a soil cover system consisting of two feet of clean imported material, and/or impervious material (i.e, asphalt pavement, concrete sidewalks and buildings) differentiated by a demarcation layer to prevent human exposure to remaining contaminated soil/fill remaining at the site;
- Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the site.
- Development and implementation of a Site Management Plan (SMP) for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) maintenance and (4) reporting;

Remedial activities were completed at the site in February 2015 (hotspot soil/fill excavations), and between April and October 2015 installation of the Site's cover system was incrementally installed as the Site's development progressed through construction and final site restoration.

A total of 350 tons of contaminated soil/fill was excavated and removed from the four hotspot locations identified in the RI Report (Boring locations B-5, B-7, B-8 and B-9) and illustrated on Figure 5 in the SMP. The excavated hotspot locations were subsequently backfilled with excess soils excavated and stockpiled from other uncontaminated locations on the Site, primarily storm sewer and water line utility trenching locations. In addition, approximately 1300 tons of topsoil mixed with vegetative material was also stripped from the upper 3-6 inches of portions of the site and disposed of off-site. This material was not identified as exceeding the applicable SCOs, however it was not suitable for reuse on the Site as part of the final cover system.

After completion of the remedial work, some contamination was left in the subsurface at this site, which is hereafter referred to as "remaining contamination." A layer of geotextile fabric has been installed as a demarcation layer in those areas of the Site where two feet of clean soil cover is the component of the cover system. This geotextile was placed on top of the subgrade soil/fill prior to placement of clean soil. At other locations on the Site where the cover system consists of impervious asphalt or concrete, a layer of geotextile has also been placed between the remaining soil/fill and clean structural gravel or crushed stone fill. In areas were buildings or structures act as the final cover system, a minimum of two feet, and in most areas four feet, of clean imported material was placed prior to placement of concrete pads and the erection of structures. In the case of Building 1, clean subbase material was placed, covered with clean topsoil and seeded in the same manner as other green space on the Site, until such time the building foundations and concrete pad were poured and the topsoil and vegetative cover stripped down to the clean subbase material.

The SMP was prepared to manage remaining contamination at the site until the Environmental Easements are extinguished in accordance with ECL Article 71, Title 36. The SMP addresses the means for implementing the Institutional Controls (ICs) and Engineering Controls (ECs) that are required by the Environmental Easement for the Site.

1.4 Purpose of Periodic Review Report

This Periodic Review Report (PRR) presents information on the maintenance, monitoring and compliance activities performed at the 89 LaSalle Avenue Site No. C915283 covering the period from April 1, 2020 to March 30, 2021.

2.0 REMEDIAL SYSTEMS COMPLIANCE

2.1.1 General

Since remaining contaminated soil and groundwater exists beneath the site, Engineering Controls and Institutional Controls (EC/ICs) are required to protect human health and the environment.

Site specific SCOs were developed and approved based on 6NYCRR Part 375 Restricted Residential SCOs. These SCOs were employed as soil cleanup goals to achieve the remedial action objectives for the Site of minimizing the potential for exposure of remaining soil contaminants to humans and the environment. The SCOs established are soil concentration limits protective of human health and surface water quality. Achievement of the site specific SCOs was confirmed through verification sampling.

The selected Engineering Control implemented at the Site (following completion of remediation activities) was the construction and maintenance of a soil cover system consisting of two feet of clean imported material and/or impervious material (i.e., asphalt pavement, concrete sidewalks and buildings), differentiated by a demarcation layer to prevent human exposure to remaining contaminated soil/fill.

The approved SMP requires the implementation of a long-term monitoring plan that incorporates monitoring and maintenance of the Site cover system to identify evidence of excessive soil erosion to soil cover systems or deterioration of asphalt or concrete structures that might indicate that off-site transport of soil/fill is likely to occur or is occurring. In addition, semi-annual stormwater and sediment monitoring and analysis is performed to further assess performance of the cover system.

The results of the required monitoring activities and annual inspection are presented in Section 4 “Monitoring Plan Compliance Report”.

3.0 INSTITUTIONAL CONTROL COMPLIANCE

3.1 Introduction

3.1.1 General

Since remaining contaminated soil and groundwater exist beneath the Site, Engineering Controls and Institutional Controls (EC/ICs) are required to protect human health and the environment. The Engineering and Institutional Control Plan describes the procedures for the implementation and management of all EC/ICs at the site. The EC/IC Plan is one component of the SMP and is subject to revision by NYSDEC. The goals of the ICs are to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the Site to Restricted Residential uses only. Adherence to these Institutional Controls is required by the Environmental Easement and will be implemented under this Site Management Plan.

3.2 Description of Institutional Controls

The Institutional Controls are:

- Compliance with the Environmental Easements and the SMP by the Grantor and the Grantor's successors and assigns;
- All Engineering Controls must be maintained as specified in the SMP;
- All Engineering Controls on the Controlled Property must be inspected at a frequency and in a manner defined in the SMP;
- Stormwater, sediment and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP.

The Site has a series of Institutional Controls in the form of site restrictions. Adherence to these Institutional Controls is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

- The property may only be used for restricted residential use, provided that the long-term Engineering and Institutional Controls included in the SMP are employed;
- The property may not be used for a higher level of use, such as unrestricted residential use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;
- Vegetable gardens and farming on the property are prohibited; and,
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are

> unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or at an alternate frequency that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

The Environmental Easement summarizing the site use restrictions and requirements for the Site was executed by the Department on December 14, 2015, and filed with the Erie County Clerk on December 15, 2015. A copy of the easement and proof of filing is provided in Appendix A of the SMP.

3.2.1 Status of ICs

During the reporting period covered by this PRR, all ICs were in place and effective in meeting their objectives. There was no intrusive work performed on the BCP Site during the reporting period covered by this PRR.

There are no corrective measures required to ensure the effectiveness of ICs at this time based on the results of the monitoring and semi-annual inspection performed.

Stormwater and sediment samples for the current PRR period were collected on November 05, 2020 & March 28 2021, when stormwater effluent was present in sufficient quantity for sampling at the MH-1 structure. The next sampling event is tentatively scheduled for October 2021.

4.0 MONITORING PLAN COMPLIANCE REPORT

4.1 Introduction

4.1.1 General

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the soil cover system, and all affected site media identified below. The Monitoring Plan may only be revised with the approval of NYSDEC.

4.1.2 Schedule

Semi-annual monitoring and inspection of the performance of the remedy and overall reduction in contamination on-site will be conducted for the first 5 years. The frequency thereafter will be determined by NYSDEC. Characterizations of the quality of stormwater and sediment generated as runoff from the Site's engineered cover system have been selected as representative Site monitoring media. Trends in contaminant levels in stormwater and sediment in the affected areas will be evaluated to determine if the remedy continues to be effective in achieving remedial goals. The monitoring and inspection program are summarized in detail in Table 4-1. The results of the monitoring performed are discussed further in Section 4.2.

Table 4-1: Monitoring/Inspection Schedule

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

Monitoring Program	Frequency*	Matrix	Analysis/Comments
Stormwater Discharge to City of Buffalo Storm Sewer System	Semi-annually	Stormwater runoff and sediment (when present)	TAL Metals (Method 6020B), Semi-volatile compounds (Method 8270D SIM), Total Solids [sediment only] (SM 2540)
Semi-annual Site Inspection	Semi-annually	Visually inspect entire site for cover system integrity and signs of unacceptable deterioration or other damage to cover system components that may result in exposure to contaminated soil	Prepare a detailed written description of the condition of all cover system components. Include a photographic record of inspection areas

4.2 Monitoring Program Results

4.2.1 Surface Water and Sediment Monitoring

In November 2020 stormwater grab samples (no sediment was present) and in March 2021, stormwater and sediment grab samples were collected from the manhole within 6 hours of a precipitation event exceeding 0.5 inch. Due to a lack of measurable precipitation events in March 2021, it was decided to collect the sample on March 28 after 0.4 inches were recorded. The samples were collected at one location, in accordance with the Legacy LaSalle C915283 Site SMP.

Stormwater and associated sediment samples were collected from the discharge of Manhole 1 (designated MH-1) located at the northwest corner of the BCP Site. MH-1 subsequently discharges to the City of Buffalo storm sewer system in LaSalle Ave.

Stormwater samples were analyzed for Semi-Volatiles and Total Metals. Sediment samples were analyzed for Semi-Volatiles, Total Metals and Total Solids. The analytical results from the November 2020 and March 2021 sampling events are summarized in Table 4-2. Table 4.2 presents sample detections compared to NYSDEC surface water standards (NYSDEC 1998) and Technical Guidance Series (T.O.Gs) Surface Water Guidance values, Class A Freshwater Sediment Guidance Values (Table 5) from the "*Screening and Assessment of Contaminated Sediments*", NYSDEC, July 2014, and Part 375 Restricted Residential SCOs.

Detections above NYSDEC surface water standards or guidance values for the following SVOCs and metals were found in the November 2020 stormwater sample:

- benzo[a]anthracene (0.00003 ppm)
- benzo[a]pyrene (0.00004 ppm)
- benzo[b]fluoranthene (0.00007 ppm)
- benzo[k]fluoranthene (0.00002 ppm)
- chrysene (0.00005 ppm)
- Indeno[1,2,3-cd]pyrene (0.00005 ppm)
- iron (0.625ppm)

Detections above NYSDEC surface water standards for the following SVOCs and metals were found in the March 2021 stormwater sample:

- benzo[a]anthracene (0.00002 ppm)
- benzo[a]pyrene (0.00005 ppm)

- benzo[b]fluoranthene (0.00009 ppm)
- benzo[k]fluoranthene (0.00003 ppm)
- chrysene (0.00007 ppm)
- Indeno[1,2,3-cd]pyrene (0.00008 ppm)
- iron (0.464ppm)
- sodium (34.2 ppm)

The SVOC PAH detections were all estimated values marginally above the TOGs 1.1.1 surface water guidance values. The metals detected above the surface water standards (iron and sodium) were also at low levels and consistent with past detections.

No exceedances of the Class A freshwater sediment guidance values were detected in the March 2021 sediment sample.

A copy of the laboratory Analytical Reports for the stormwater and sediment analyses performed is attached in Appendix A.

4.3 Semi-Annual Site Inspection Results

Site inspections were performed on November 05, 2020 and March 30, 2021, to address the frequency of twice per year established by the SMP Monitoring Program requirements. A Site-wide inspection form was completed (Appendix B) during each inspection. The form compiles sufficient information to assess the following:

- Compliance with all ICs, including Site usage;
- General Site conditions at the time of the inspection;
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection;
- Compliance with permits and schedules included in the Operation and Maintenance Plan; and,
- Confirmation that Site records are up to date.

All areas of the Site were carefully inspected to assess the condition of surface soil, asphalt and concrete areas to determine if erosion or related deterioration is occurring that would jeopardize the integrity of soil, asphalt or concrete structures preventing the transport of soil/fill onto surrounding properties. During both inspection events, the integrity of the cover materials were found to be in excellent condition with no integrity issues observed.

A combined photographic log containing photos taken during the November 2020 and March 2021 inspections are provided in Appendix B.

4.4 Summary of Off-Site Activities During Reporting Period

No intrusive activities were performed off-site during the period covered by this PRR.

4.5 Conclusions and Recommendations

At the time of the semi-annual inspections, the Site was fully compliant with the institutional controls described in the SMP. All monitoring results and inspection results were acceptable with only low-level detection of limited SVOC PAHs and metals in the stormwater at the Site outfall stormwater discharge and no evidence of erosion of the soil cover or hardscape portions of the cover on the Site.

Semi-annual stormwater and sediment sampling will continue to be scheduled for future monitoring events in the October and March timeframes to be representative of stormwater discharge events from the Site.

5.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

Based on the monitoring and inspection results described in Section 4 and conducted during the timeframe covered by this PRR, compliance with all relevant components of the SMP ICs was achieved. A copy of the completed and certified "Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form" is attached in Appendix C.

The results of the stormwater and sediment sample results after four years of development and the overall condition of the site and integrity of the final soil cover system are indicative that the remedy performed under the BCP is achieving its intended goals of minimizing, to the extent feasible, exposure of remaining contamination to the environment through stormwater runoff and associated sediment erosion.

The next Semi-Annual Inspection will be performed in October of 2021. The next semi-annual SMP sampling event will be performed in September/October of 2021, contingent on stormwater availability for sampling.

6.0 REFERENCES

1. Golder Associates Inc., Final Engineering Report, 89 LaSalle Ave. Site, NYSDEC Site No. C915283, December 2015.

2. Golder Associates Inc., Site Management Plan, 89 LaSalle Ave. Site, NYSDEC Site No. C915283, prepared for Legacy LaSalle LLC, December 2015.

TABLE 4-2

(TABLE 4-1 IN TEXT)

TABLE 4-2
SUMMARY OF ANALYTICAL RESULTS FOR STORMWATER & SEDIMENT SAMPLES
89 LASALLE AVENUE BCP SITE # C915283
LEGACY LASALLE, LLC.
BUFFALO, NY

Lab ID	Water Quality Standards Surface Waters and Groundwater (6 NYCRR Part 703)	NYS T.O.G.S 1.1.1 Surface Water Guidance Values+	Class A Freshwater Sediment Guidance Values*	Restricted Residential SCOs Table 375-6.8(b)	L2053205-01 Stormwater [1]		L2115550-01 Stormwater [1]		L2115550-02 Sediment	
Sample ID					MH-1		MH-1		MH-1	
Sample Date					11/30/20		3/28/21		3/28/21	
Units	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)		(ppm)		(ppm)	
Semivolatile Organics (Method 8270D-SIM)										
2-Methylnapthalene	NV	NV	NS	NS	ND		ND		NA	
Acenaphthene	0.02	0.0053	NS	100	ND		ND		ND	
Acenaphthylene	NV	NV	NS	100	ND		ND		ND	
Anthracene	NV	0.0038	NS	100	0.00001	J	ND		ND	
Benzaldehyde	NV	NV	NS	NS	ND		ND		NA	
Benzo[a]anthracene	NV	0.000002	NS	1	**0.00003**	J	**0.00002**	J	ND	
Benzo[a]pyrene	ND	0.0000012	NS	1	**0.00004**	J	**0.00005**	J	ND	
Benzo[b]fluoranthene	NV	0.000002	NS	1	**0.00007**	J	**0.00009**	J	ND	
Benzo[g,h,i]perylene	NV	NV	NS	100	0.00006	J	0.00009	J	ND	
Benzo[k]fluoranthene	NV	0.000002	NS	3.9	**0.00002**	J	**0.00003**	J	ND	
Biphenyl	NV	0.005	NS	1	ND		ND		NA	
Bis(2-ethylhexyl) phthalate	0.005	NV	<360	NS	0.0039	J	ND		NA	
Butyl benzyl phthalate	NV	0.05	NS		ND		ND		NA	
Caprolactam	NV	NV	NS	NS	0.0049	J	ND		NA	
Carbazole	NV	NV	NS	NS	ND		ND		NA	
Chrysene	NV	0.000002	NS	3.9	**0.00005**	J	**0.00007**	J	ND	
Dibenzo(a,h)anthracene	NV	NV	NS	0.33	ND		ND		ND	
Dibenzofuran	NV	NV	NS	NA	ND		ND		ND	
Di-n-butyl phthalate	NV	0.05	NS	NS	ND		ND		NA	
Di-n-octyl phthalate	NV	0.05	NS	NS	ND		ND		NA	
Diethyl phthalate	NV	0.05	NS	NS	ND		ND		NA	
Fluoranthene	NV	0.05	NS	100	0.0001	J	0.00012		ND	
Fluorene	NV	0.00054	NS	100	ND		ND		ND	
Hexachlorobenzene	0.00004	NV	NS	NS	0.00001	J	ND		ND	
Indeno[1,2,3-cd]pyrene	NV	0.000002	NS	0.5	**0.00005**	J	**0.00008**	J	ND	
Phenanthrene	NV	0.005	NS	100	0.00007	J	0.00003	J	ND	
Pyrene	NV	0.05	NS	100	0.00008	J	0.0001	J	ND	
Pentachlorophenol	0.001	NV	< 14	6.7	0.00011	J	ND		ND	
3-Methylphenol/4-Methylphenol	NV	NV	NS	NS	ND		ND		ND	
Total Metals (SW 846 Method 6020 B)										
Aluminum	NV	NV	NS	NS	0.253		0.234		833	
Antimony	0.003	NV	NS	NS	0.00224	J	0.00082	J	ND	
Arsenic	0.05	NV	<10	16	0.00039	J	0.00046	J	1.44	
Barium	1	NV	NS	400	0.00696		0.00534	J	6.98	
Beryllium	0.011	0.003	NS	72	ND		ND		ND	
Cadmium	0.005	NV	<1	4.3	0.00011	J	0.00009	J	0.098	J
Calcium	NV	NV	NS	NS	28.3		13		112,000	
Chromium	0.05	NV	<43	180	0.00063	J	0.00272		2.64	
Cobalt	0.005	NV	NS	NS	0.00018	J	0.00023	J	1.03	J
Copper	0.2	NV	<32	270	0.00221		0.00466	J	3.38	
Iron	0.3	NV	NS	NA	**0.625**		**0.464**		3650	
Lead	0.05	NV	<36	400	0.00307		0.00243		5.98	
Magnesium	35	NV	NS	NS	1.3		0.878		13500	
Manganese	0.3	NV	NS	2000	0.02244		0.01561		215	
Mercury	0.0007	NV	<0.2	0.81	ND		0.0001	J	ND	
Nickel	0.1	NV	<23	310	0.00093		0.00136	J	3.54	
Potassium	NV	NV	NS	NS	0.435	J	0.631		216	J
Selenium	0.0046	NV	NS	180	ND		ND		0.754	J
Silver	0.05	NV	<1	180	ND		0.00119		ND	
Sodium	20	NV	NS	NS	3.08		**34.2**		217	
Thallium	0.008	0.0005	NS	NS	0.00014	J	ND		0.754	J
Vanadium	0.014	NV	NS	NS	ND		0.002	J	4.9	
Zinc	NV	2	<120	10000	0.02133		0.02719		19.7	

TABLE 4-2

SUMMARY OF ANALYTICAL RESULTS FOR STORMWATER & SEDIMENT SAMPLES

89 LASALLE AVENUE BCP SITE # C915283

LEGACY LASALLE, LLC.

BUFFALO, NY

Notes & Data Qualifiers:

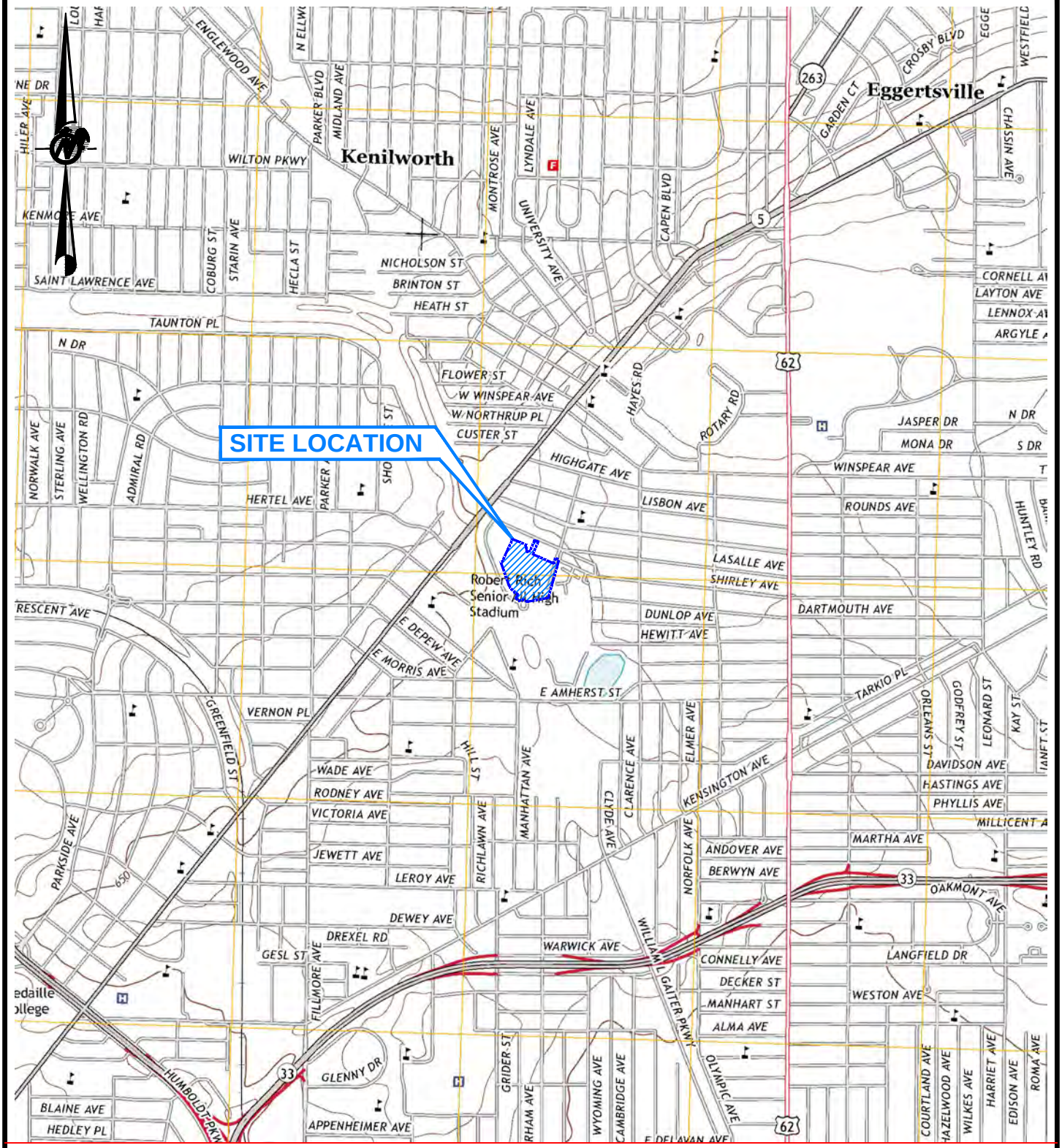
1 Stormwater analysis results for semi-volatiles are reported for Method 8270D-SIM
\+ The most stringent surface water limitation for either Source of Drinking Water H(WS) or Human Consumption of Fish H(FC) is listed
* Freshwater Sediment Guidance Values for Class A Sediments. "*Screening & Assessment of Contaminated Sediment*", NYSDEC, June 2014
B = Analyte was detected in associated method blank.
J = Analyte detected at a level less than the reporting limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.

Footnotes:

12.1 = Sample concentration exceeds NYSDEC Part 703 Water Quality Standards Surface Waters and Groundwater
BOLD = Sample concentration exceeds the TOGS 1.1.1 Surface Water Guidance values
0.34 = Sample concentration exceeds NYSDEC Part 375 Restricted Residential Use Soil Cleanup Objectives (SCOs)
44 = Sample concentration exceeds NYSDEC B10 Freshwater Sediment Guidance Value for Class A sediments
ND = Non detectable concentration by approved analytical methods; water quality standard.
NV = No Standard or Guidance Value Specified
NA = Not Analyzed

Table by:	KJ
Checked by:	PTM
Reviewed by:	PTM

FIGURES



REFERENCE

1.) BASE FROM 7.5 MINUTE QUADRANGLE OF BUFFALO NORTHEAST, NEW YORK DATED 2013.

2000 0 2000
SCALE FEET

Golder Associates
Buffalo, New York

SCALE	AS SHOWN
DATE	5/12/15
DESIGN	JGT
CADD	JGT
CHECK	
REVIEW	

FILE No. 1400657
PROJECT No. 1400657 REV. 0

TITLE

SITE VICINITY MAP

89 LASALLE AVENUE BCP SITE

PERIODIC REVIEW REPORT

LEGACY LASALLE LLC

FIGURE 1-1

Drawing file: Figure 1; Project Site Map.dwg May 12, 2015 – 9:12am

LEGEND

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- FENCING
- QUARRY LIMIT
- COVER SYSTEM – IMPERVIOUS SURFACES
- COVER SYSTEM – BUILDINGS AND STRUCTURES
- COVER SYSTEM – SOIL COVER
- (1) BUILDING NO.

REFERENCE

1.) BASE MAP FROM DIGITAL FILE PROVIDED BY McINTOSH & McINTOSH, P.C., LOCKPORT, NEW YORK, ENTITLED "SURVEY OF PART OF LOT–46, TWP.–11, R.–8, HOLLAND PURCHASE," DATED MARCH 20, 2012.

50 0 50
SCALE FEET

CLIENT
LEGACY LASALLE, LLC - BUFFALO NEW YORK

PROJECT
PERIODIC REVIEW REPORT

CONSULTANT
GOLDER

YYYY-MM-DD	2020-05-12
DESIGNED	JGT
PREPARED	AAZ
REVIEWED	PTM
APPROVED	PTM

TITLE
89 LASALLE AVENUE SITE PLAN

PROJECT NO.	CONTROL	REV.	FIGURE
20139374	001	0	2-1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

Path: \\golder.gds.com\fs\autodata\Office\Manchester\SIM\Legacy_Lasalle\LaSalle\89_PRO\20139374_LaSalle\40_PROD\ | File Name: 1400657FA002.dwg | Last Edited By: azumbado Date: 2020-05-12 Time:4:09:25 PM | Printed By: AZumbado Date: 2020-05-12 Time:4:12:30 PM

APPENDIX A

ANALYTICAL DATA REPORTS – ALPHA ANALYTICAL

NOVEMBER 2020, MARCH 2021

ANALYTICAL REPORT

Lab Number:	L2053205
Client:	Golder Associates Inc. 2430 North Forest Rd. Suite 100 Getzville, NY 14068
ATTN:	Patrick Martin
Phone:	(716) 204-5880
Project Name:	89 LASALLE AVE, BUFFALO, NY
Project Number:	20139374
Report Date:	12/08/20

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: 89 LASALLE AVE, BUFFALO, NY
Project Number: 20139374

Lab Number: L2053205
Report Date: 12/08/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2053205-01	MH-1 STORMWATER	WATER	89 LASALLE BCP SITE	11/30/20 15:30	12/01/20

Project Name:	89 LASALLE AVE, BUFFALO, NY	**Lab Number:**	L2053205
Project Number:	20139374	**Report Date:**	12/08/20

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:	89 LASALLE AVE, BUFFALO, NY	**Lab Number:**	L2053205
Project Number:	20139374	**Report Date:**	12/08/20

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.

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: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 12/08/20

ORGANICS

SEMIVOLATILES

Project Name: 89 LASALLE AVE, BUFFALO, NY
Lab Number: L2053205
Project Number: 20139374
Report Date: 12/08/20

SAMPLE RESULTS

Lab ID: L2053205-01
Client ID: MH-1 STORMWATER
Sample Location: 89 LASALLE BCP SITE
Date Collected: 11/30/20 15:30
Date Received: 12/01/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 12/07/20 19:21
Analyst: JRW
Extraction Method: EPA 3510C
Extraction Date: 12/05/20 01:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	3.9		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 89 LASALLE AVE, BUFFALO, NY **Lab Number:** L2053205

Project Number: 20139374 **Report Date:** 12/08/20

SAMPLE RESULTS

Lab ID: L2053205-01 Date Collected: 11/30/20 15:30

Client ID: MH-1 STORMWATER Date Received: 12/01/20

Sample Location: 89 LASALLE BCP SITE Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	4.9	J	ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	64		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	98		15-120
2,4,6-Tribromophenol	96		10-120
4-Terphenyl-d14	95		41-149

Project Name: 89 LASALLE AVE, BUFFALO, NY
Lab Number: L2053205
Project Number: 20139374
Report Date: 12/08/20

SAMPLE RESULTS

Lab ID: L2053205-01
Client ID: MH-1 STORMWATER
Sample Location: 89 LASALLE BCP SITE
Date Collected: 11/30/20 15:30
Date Received: 12/01/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 12/05/20 12:38
Analyst: ALS
Extraction Method: EPA 3510C
Extraction Date: 12/05/20 01:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.10	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.04	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.07	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	0.05	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.01	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.06	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.07	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.05	J	ug/l	0.10	0.01	1
Pyrene	0.08	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	0.11	J	ug/l	0.80	0.01	1
Hexachlorobenzene	0.01	J	ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 89 LASALLE AVE, BUFFALO, NY **Lab Number:** L2053205

Project Number: 20139374 **Report Date:** 12/08/20

SAMPLE RESULTS

Lab ID: L2053205-01 Date Collected: 11/30/20 15:30

Client ID: MH-1 STORMWATER Date Received: 12/01/20

Sample Location: 89 LASALLE BCP SITE Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	92		15-120
2,4,6-Tribromophenol	103		10-120
4-Terphenyl-d14	91		41-149

Project Name: 89 LASALLE AVE, BUFFALO, NY
Project Number: 20139374
Lab Number: L2053205
Report Date: 12/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/07/20 14:33
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 12/05/20 01:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1441435-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	2.5	J	ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: 89 LASALLE AVE, BUFFALO, NY
Project Number: 20139374
Lab Number: L2053205
Report Date: 12/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/07/20 14:33
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 12/05/20 01:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1441435-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	69		10-120
4-Terphenyl-d14	67		41-149

Project Name: 89 LASALLE AVE, BUFFALO, NY
Project Number: 20139374
Lab Number: L2053205
Report Date: 12/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 12/05/20 17:45
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 12/05/20 01:28

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1441437-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 89 LASALLE AVE, BUFFALO, NY
Project Number: 20139374
Lab Number: L2053205
Report Date: 12/08/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 12/05/20 17:45
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 12/05/20 01:28

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1441437-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	**130**	Q	10-120
4-Terphenyl-d14	96		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE, BUFFALO, NY
Project Number: 20139374

Lab Number: L2053205
Report Date: 12/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1441435-2 WG1441435-3								
Bis(2-chloroethyl)ether	78		77		40-140	1		30
3,3'-Dichlorobenzidine	77		74		40-140	4		30
2,4-Dinitrotoluene	91		90		48-143	1		30
2,6-Dinitrotoluene	91		90		40-140	1		30
4-Chlorophenyl phenyl ether	82		79		40-140	4		30
4-Bromophenyl phenyl ether	86		82		40-140	5		30
Bis(2-chloroisopropyl)ether	87		86		40-140	1		30
Bis(2-chloroethoxy)methane	75		73		40-140	3		30
Hexachlorocyclopentadiene	74		73		40-140	1		30
Isophorone	78		78		40-140	0		30
Nitrobenzene	84		85		40-140	1		30
NDPA/DPA	88		85		40-140	3		30
n-Nitrosodi-n-propylamine	78		82		29-132	5		30
Bis(2-ethylhexyl)phthalate	90		87		40-140	3		30
Butyl benzyl phthalate	87		85		40-140	2		30
Di-n-butylphthalate	81		76		40-140	6		30
Di-n-octylphthalate	86		82		40-140	5		30
Diethyl phthalate	80		78		40-140	3		30
Dimethyl phthalate	87		87		40-140	0		30
Biphenyl	89		87		40-140	2		30
4-Chloroaniline	59		52		40-140	13		30
2-Nitroaniline	95		95		52-143	0		30
3-Nitroaniline	66		65		25-145	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE, BUFFALO, NY
Project Number: 20139374

Lab Number: L2053205
Report Date: 12/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1441435-2 WG1441435-3								
4-Nitroaniline	84		82		51-143	2		30
Dibenzofuran	84		82		40-140	2		30
1,2,4,5-Tetrachlorobenzene	84		81		2-134	4		30
Acetophenone	77		77		39-129	0		30
2,4,6-Trichlorophenol	101		101		30-130	0		30
p-Chloro-m-cresol	93		94		23-97	1		30
2-Chlorophenol	83		82		27-123	1		30
2,4-Dichlorophenol	91		90		30-130	1		30
2,4-Dimethylphenol	68		77		30-130	12		30
2-Nitrophenol	106		105		30-130	1		30
4-Nitrophenol	79		75		10-80	5		30
2,4-Dinitrophenol	104		107		20-130	3		30
4,6-Dinitro-o-cresol	105		101		20-164	4		30
Phenol	63		63		12-110	0		30
3-Methylphenol/4-Methylphenol	81		83		30-130	2		30
2,4,5-Trichlorophenol	100		98		30-130	2		30
Carbazole	95		92		55-144	3		30
Atrazine	108		102		40-140	6		30
Benzaldehyde	77		75		40-140	3		30
Caprolactam	42		43		10-130	2		30
2,3,4,6-Tetrachlorophenol	91		87		40-140	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE, BUFFALO, NY
Project Number: 20139374

Lab Number: L2053205
Report Date: 12/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1441435-2 WG1441435-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		70		21-120
Phenol-d6	61		62		10-120
Nitrobenzene-d5	87		84		23-120
2-Fluorobiphenyl	86		82		15-120
2,4,6-Tribromophenol	**138**	Q	**136**	Q	10-120
4-Terphenyl-d14	94		90		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE, BUFFALO, NY
Project Number: 20139374

Lab Number: L2053205
Report Date: 12/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1441437-2 WG1441437-3								
Acenaphthene	76		76		40-140	0		40
2-Chloronaphthalene	88		85		40-140	3		40
Fluoranthene	105		109		40-140	4		40
Hexachlorobutadiene	70		65		40-140	7		40
Naphthalene	70		65		40-140	7		40
Benzo(a)anthracene	95		102		40-140	7		40
Benzo(a)pyrene	107		112		40-140	5		40
Benzo(b)fluoranthene	94		99		40-140	5		40
Benzo(k)fluoranthene	104		108		40-140	4		40
Chrysene	94		96		40-140	2		40
Acenaphthylene	101		99		40-140	2		40
Anthracene	94		98		40-140	4		40
Benzo(ghi)perylene	101		110		40-140	9		40
Fluorene	88		90		40-140	2		40
Phenanthrene	85		88		40-140	3		40
Dibenzo(a,h)anthracene	111		120		40-140	8		40
Indeno(1,2,3-cd)pyrene	106		114		40-140	7		40
Pyrene	106		109		40-140	3		40
2-Methylnaphthalene	80		76		40-140	5		40
Pentachlorophenol	140		**148**	Q	40-140	6		40
Hexachlorobenzene	91		94		40-140	3		40
Hexachloroethane	57		52		40-140	9		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE, BUFFALO, NY
Project Number: 20139374

Lab Number: L2053205
Report Date: 12/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1441437-2 WG1441437-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		54		21-120
Phenol-d6	52		50		10-120
Nitrobenzene-d5	95		86		23-120
2-Fluorobiphenyl	95		83		15-120
2,4,6-Tribromophenol	**153**	Q	**158**	Q	10-120
4-Terphenyl-d14	105		107		41-149

METALS

Project Name: 89 LASALLE AVE, BUFFALO, NY
Lab Number: L2053205
Project Number: 20139374
Report Date: 12/08/20

SAMPLE RESULTS

Lab ID: L2053205-01
Client ID: MH-1 STORMWATER
Sample Location: 89 LASALLE BCP SITE
Date Collected: 11/30/20 15:30
Date Received: 12/01/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.253		mg/l	0.0100	0.00327	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Antimony, Total	0.00224	J	mg/l	0.00400	0.00042	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00039	J	mg/l	0.00050	0.00016	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Barium, Total	0.00696		mg/l	0.00050	0.00017	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00011	J	mg/l	0.00020	0.00005	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Calcium, Total	28.3		mg/l	0.100	0.0394	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Chromium, Total	0.00063	J	mg/l	0.00100	0.00017	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00018	J	mg/l	0.00050	0.00016	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Copper, Total	0.00221		mg/l	0.00100	0.00038	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Iron, Total	0.625		mg/l	0.0500	0.0191	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Lead, Total	0.00307		mg/l	0.00100	0.00034	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Magnesium, Total	1.30		mg/l	0.0700	0.0242	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Manganese, Total	0.02244		mg/l	0.00100	0.00044	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/08/20 09:39	12/08/20 13:19	EPA 7470A	1,7470A	VW
Nickel, Total	0.00093	J	mg/l	0.00200	0.00055	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Potassium, Total	0.435		mg/l	0.100	0.0309	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Sodium, Total	3.08		mg/l	0.100	0.0293	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Thallium, Total	0.00014	J	mg/l	0.00050	0.00014	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM
Zinc, Total	0.02133		mg/l	0.01000	0.00341	1	12/08/20 09:34	12/08/20 13:27	EPA 3005A	1,6020B	AM

Project Name: 89 LASALLE AVE, BUFFALO, NY
Project Number: 20139374
Lab Number: L2053205
Report Date: 12/08/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1442023-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Iron, Total	ND		mg/l	0.0500	0.0191	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	12/08/20 09:34	12/08/20 12:58	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1442026-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/08/20 09:39	12/08/20 13:14	1,7470A	VW

Project Name: 89 LASALLE AVE, BUFFALO, NY
Project Number: 20139374
Lab Number: L2053205
Report Date: 12/08/20

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE AVE, BUFFALO, NY

Project Number: 20139374

Lab Number: L2053205

Report Date: 12/08/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1442023-2								
Aluminum, Total	98		-		80-120	-		
Antimony, Total	103		-		80-120	-		
Arsenic, Total	99		-		80-120	-		
Barium, Total	99		-		80-120	-		
Beryllium, Total	102		-		80-120	-		
Cadmium, Total	104		-		80-120	-		
Calcium, Total	103		-		80-120	-		
Chromium, Total	98		-		80-120	-		
Cobalt, Total	98		-		80-120	-		
Copper, Total	98		-		80-120	-		
Iron, Total	95		-		80-120	-		
Lead, Total	102		-		80-120	-		
Magnesium, Total	100		-		80-120	-		
Manganese, Total	98		-		80-120	-		
Nickel, Total	94		-		80-120	-		
Potassium, Total	100		-		80-120	-		
Selenium, Total	103		-		80-120	-		
Silver, Total	100		-		80-120	-		
Sodium, Total	113		-		80-120	-		
Thallium, Total	112		-		80-120	-		
Vanadium, Total	98		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE AVE, BUFFALO, NY

Project Number: 20139374

Lab Number: L2053205

Report Date: 12/08/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1442023-2					
Zinc, Total	103	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1442026-2					
Mercury, Total	94	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE, BUFFALO, NY
Project Number: 20139374

Lab Number: L2053205
Report Date: 12/08/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1442023-3 WG1442023-4 QC Sample: L2053451-08 Client ID: MS Sample												
Aluminum, Total	0.007J	2	2.02	101		2.01	100		75-125	0		20
Antimony, Total	0.0051	0.5	0.3441	**68**	Q	0.3850	76		75-125	11		20
Arsenic, Total	ND	0.12	0.1185	99		0.1203	100		75-125	2		20
Barium, Total	0.0046	2	2.032	101		2.064	103		75-125	2		20
Beryllium, Total	ND	0.05	0.05394	108		0.05575	112		75-125	3		20
Cadmium, Total	ND	0.051	0.05570	109		0.05738	112		75-125	3		20
Calcium, Total	2.65	10	13.3	106		12.9	102		75-125	3		20
Chromium, Total	0.0002J	0.2	0.2056	103		0.2087	104		75-125	1		20
Cobalt, Total	ND	0.5	0.5037	101		0.5072	101		75-125	1		20
Copper, Total	ND	0.25	0.2548	102		0.2603	104		75-125	2		20
Iron, Total	ND	1	1.34	**134**	Q	1.08	108		75-125	**21**	Q	20
Lead, Total	ND	0.51	0.5708	112		0.5838	114		75-125	2		20
Magnesium, Total	1.33	10	11.6	103		11.7	104		75-125	1		20
Manganese, Total	0.00101	0.5	0.5043	101		0.5066	101		75-125	0		20
Nickel, Total	ND	0.5	0.4894	98		0.4989	100		75-125	2		20
Potassium, Total	0.434	10	10.4	100		10.5	101		75-125	1		20
Selenium, Total	ND	0.12	0.130	108		0.131	109		75-125	1		20
Silver, Total	ND	0.05	0.05260	105		0.05356	107		75-125	2		20
Sodium, Total	7.24	10	19.8	**126**	Q	19.9	**127**	Q	75-125	1		20
Thallium, Total	0.0003J	0.12	0.1507	**126**	Q	0.1468	122		75-125	3		20
Vanadium, Total	ND	0.5	0.5000	100		0.5101	102		75-125	2		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE, BUFFALO, NY
Project Number: 20139374

Lab Number: L2053205
Report Date: 12/08/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1442023-3 WG1442023-4 QC Sample: L2053451-08 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.5403	108	0.5498	110	75-125	2	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1442026-3 QC Sample: L2053205-01 Client ID: MH-1 STORMWATER									
Mercury, Total	ND	0.005	0.00479	96	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 89 LASALLE AVE, BUFFALO, NY

Project Number: 20139374

Lab Number: L2053205

Report Date: 12/08/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1442026-4 QC Sample: L2053205-01 Client ID: MH-1 STORMWATER						
Mercury, Total	ND	ND	mg/l	NC		20

Project Name: 89 LASALLE AVE, BUFFALO, NY
Project Number: 20139374

Lab Number: L2053205
Report Date: 12/08/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2053205-01A	Plastic 250ml HNO3 preserved	A	<2	<2	3.7	Y	Absent		BA-6020T(180),SE-6020T(180),FE-6020T(180),TL-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),AG-6020T(180),HG-T(28),CD-6020T(180),MG-6020T(180),AL-6020T(180),CO-6020T(180)
L2053205-01B	Amber 250ml unpreserved	A	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2053205-01C	Amber 250ml unpreserved	A	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

*Values in parentheses indicate holding time in days

Project Name:	89 LASALLE AVE, BUFFALO, NY	**Lab Number:**	L2053205
Project Number:	20139374	**Report Date:**	12/08/20

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.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	89 LASALLE AVE, BUFFALO, NY	**Lab Number:**	L2053205
Project Number:	20139374	**Report Date:**	12/08/20

Footnotes

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. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). 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.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	89 LASALLE AVE, BUFFALO, NY	**Lab Number:**	L2053205
Project Number:	20139374	**Report Date:**	12/08/20

Data Qualifiers

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 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:	89 LASALLE AVE, BUFFALO, NY	**Lab Number:**	L2053205
Project Number:	20139374	**Report Date:**	12/08/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

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 1

Date Rec'd in Lab: 12/2/20

ALPHA Job #: L2053205

Project Information

Project Name: 89 La Salle BCP Site
Project Location: 89 La Salle Ave, Buffalo, NY
Project # 20139374
(Use Project name as Project #) ☐
Project Manager: Patrick Martin
ALPHAQuote #:

Client Information

Client: Golder Associates
Address: 455 Commerce Dr. Suite 8
Phone: 716-204-5880
Fax:
Email: ptmartin@golder.com

Turn-Around Time

Standard ☒
Rush (only if pre approved) ☐
Due Date:
# of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Analysis columns: (1) Total Solids - SM2540 (2) ~~NYTCL SVOCs - 8270D~~ (3) TAL metals - tot 6010D (4) NYTCL-8270-LVI (5) TAL metals - tot, tot. Hg 6020

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	(1)	(2)	(3)	(4)	(5)				Sample Specific Comments	Total Bottles
053205-01	MH-1 stormwater	11/30/20	15:30	water	PTM				X	X					3
	~~MH-1 sediment~~	~~11/30/20~~		~~soil~~	~~PTM~~	X	X	X						NO SAMPLE	3

	(1)	(2)	(3)	(4)	(5)			
Container Type	P	A	A	A	P			
Preservative	A	A	A	A	C			

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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

Relinquished By:	Date/Time	Received By:	Date/Time
Patrick T. Martin	12/01/20 12:50	[signature] AAL	12/01/20 12:50
[signature] AAL	12/01/20 14:35	[signature]	12/2/20 00:45

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2115550
Client:	Golder Associates Inc. 2430 North Forest Rd. Suite 100 Getzville, NY 14068
ATTN:	Patrick Martin
Phone:	(716) 204-5880
Project Name:	89 LASALLE BCB PRR
Project Number:	21455587
Report Date:	04/08/21

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: 89 LASALLE BCB PRR
Project Number: 21455587

Lab Number: L2115550
Report Date: 04/08/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2115550-01	MH-1 STORMWATER	WATER	89 LASALLE AVE, BUFFALO, NY	03/28/21 12:55	03/29/21
L2115550-02	MH-1 SEDIMENT	SOIL	89 LASALLE AVE, BUFFALO, NY	03/28/21 13:00	03/29/21

Project Name:	89 LASALLE BCB PRR	**Lab Number:**	L2115550
Project Number:	21455587	**Report Date:**	04/08/21

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:	89 LASALLE BCB PRR	**Lab Number:**	L2115550
Project Number:	21455587	**Report Date:**	04/08/21

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.

Semivolatile Organics

L2115550-02D: The sample has elevated detection limits due to the dilution required by the sample matrix.

Total Metals

L2115550-02: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

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: Caitlin Walukevich

Caitlin Walukevich

Title: Technical Director/Representative

Date: 04/08/21

ORGANICS

SEMIVOLATILES

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587
Lab Number: L2115550
Report Date: 04/08/21

SAMPLE RESULTS

Lab ID: L2115550-01
Client ID: MH-1 STORMWATER
Sample Location: 89 LASALLE AVE, BUFFALO, NY

Date Collected: 03/28/21 12:55
Date Received: 03/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/01/21 19:11
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/31/21 08:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 89 LASALLE BCB PRR
Lab Number: L2115550
Project Number: 21455587
Report Date: 04/08/21

SAMPLE RESULTS

Lab ID: L2115550-01
Client ID: MH-1 STORMWATER
Sample Location: 89 LASALLE AVE, BUFFALO, NY
Date Collected: 03/28/21 12:55
Date Received: 03/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	77		41-149

Project Name: 89 LASALLE BCB PRR
Lab Number: L2115550
Project Number: 21455587
Report Date: 04/08/21

SAMPLE RESULTS

Lab ID: L2115550-01
Client ID: MH-1 STORMWATER
Sample Location: 89 LASALLE AVE, BUFFALO, NY
Date Collected: 03/28/21 12:55
Date Received: 03/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/03/21 15:42
Analyst: DV
Extraction Method: EPA 3510C
Extraction Date: 04/02/21 00:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.12		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.05	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.09	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Chrysene	0.07	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.09	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.03	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.08	J	ug/l	0.10	0.01	1
Pyrene	0.10	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 89 LASALLE BCB PRR
Lab Number: L2115550
Project Number: 21455587
Report Date: 04/08/21

SAMPLE RESULTS

Lab ID: L2115550-01
Client ID: MH-1 STORMWATER
Sample Location: 89 LASALLE AVE, BUFFALO, NY
Date Collected: 03/28/21 12:55
Date Received: 03/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	71		41-149

Project Name: 89 LASALLE BCB PRR
Lab Number: L2115550
Project Number: 21455587
Report Date: 04/08/21

SAMPLE RESULTS

Lab ID: L2115550-02 D
Client ID: MH-1 SEDIMENT
Sample Location: 89 LASALLE AVE, BUFFALO, NY

Date Collected: 03/28/21 13:00
Date Received: 03/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/07/21 21:59
Analyst: IM
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 04/07/21 01:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	860	110	5
Hexachlorobenzene	ND		ug/kg	650	120	5
Fluoranthene	ND		ug/kg	650	120	5
Naphthalene	ND		ug/kg	1100	130	5
Benzo(a)anthracene	ND		ug/kg	650	120	5
Benzo(a)pyrene	ND		ug/kg	860	260	5
Benzo(b)fluoranthene	ND		ug/kg	650	180	5
Benzo(k)fluoranthene	ND		ug/kg	650	170	5
Chrysene	ND		ug/kg	650	110	5
Acenaphthylene	ND		ug/kg	860	170	5
Anthracene	ND		ug/kg	650	210	5
Benzo(ghi)perylene	ND		ug/kg	860	130	5
Fluorene	ND		ug/kg	1100	100	5
Phenanthrene	ND		ug/kg	650	130	5
Dibenzo(a,h)anthracene	ND		ug/kg	650	120	5
Indeno(1,2,3-cd)pyrene	ND		ug/kg	860	150	5
Pyrene	ND		ug/kg	650	110	5
Dibenzofuran	ND		ug/kg	1100	100	5
Pentachlorophenol	ND		ug/kg	860	240	5
Phenol	ND		ug/kg	1100	160	5
2-Methylphenol	ND		ug/kg	1100	170	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1600	170	5

Project Name: 89 LASALLE BCB PRR
Lab Number: L2115550
Project Number: 21455587
Report Date: 04/08/21

SAMPLE RESULTS

Lab ID: L2115550-02 D
Client ID: MH-1 SEDIMENT
Sample Location: 89 LASALLE AVE, BUFFALO, NY

Date Collected: 03/28/21 13:00
Date Received: 03/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	54		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	48		18-120

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587
Lab Number: L2115550
Report Date: 04/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/01/21 14:54
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 03/31/21 08:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1480766-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587
Lab Number: L2115550
Report Date: 04/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/01/21 14:54
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 03/31/21 08:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1480766-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	51		10-120
4-Terphenyl-d14	68		41-149

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587
Lab Number: L2115550
Report Date: 04/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 04/02/21 08:34
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 04/01/21 20:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1481605-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587
Lab Number: L2115550
Report Date: 04/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 04/02/21 08:34
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 04/01/21 20:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1481605-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	34		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	42		23-120
2-Fluorobiphenyl	47		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	67		41-149

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587
Lab Number: L2115550
Report Date: 04/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/06/21 20:55
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/06/21 12:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1482962-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Dibenzofuran	ND		ug/kg	160	16.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587
Lab Number: L2115550
Report Date: 04/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/06/21 20:55
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/06/21 12:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1482962-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	71		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587

Lab Number: L2115550
Report Date: 04/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1480766-2 WG1480766-3								
Bis(2-chloroethyl)ether	69		84		40-140	20		30
3,3'-Dichlorobenzidine	62		72		40-140	15		30
2,4-Dinitrotoluene	77		84		48-143	9		30
2,6-Dinitrotoluene	70		82		40-140	16		30
4-Chlorophenyl phenyl ether	73		82		40-140	12		30
4-Bromophenyl phenyl ether	71		80		40-140	12		30
Bis(2-chloroisopropyl)ether	74		87		40-140	16		30
Bis(2-chloroethoxy)methane	72		81		40-140	12		30
Hexachlorocyclopentadiene	58		73		40-140	23		30
Isophorone	74		86		40-140	15		30
Nitrobenzene	74		84		40-140	13		30
NDPA/DPA	75		82		40-140	9		30
n-Nitrosodi-n-propylamine	81		90		29-132	11		30
Bis(2-ethylhexyl)phthalate	68		74		40-140	8		30
Butyl benzyl phthalate	70		78		40-140	11		30
Di-n-butylphthalate	66		74		40-140	11		30
Di-n-octylphthalate	73		79		40-140	8		30
Diethyl phthalate	76		84		40-140	10		30
Dimethyl phthalate	72		85		40-140	17		30
Biphenyl	71		82		40-140	14		30
4-Chloroaniline	69		92		40-140	29		30
2-Nitroaniline	75		85		52-143	13		30
3-Nitroaniline	68		80		25-145	16		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587
Lab Number: L2115550
Report Date: 04/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1480766-2 WG1480766-3								
4-Nitroaniline	80		78		51-143	3		30
Dibenzofuran	72		82		40-140	13		30
1,2,4,5-Tetrachlorobenzene	68		81		2-134	17		30
Acetophenone	77		90		39-129	16		30
2,4,6-Trichlorophenol	67		82		30-130	20		30
p-Chloro-m-cresol	74		88		23-97	17		30
2-Chlorophenol	74		88		27-123	17		30
2,4-Dichlorophenol	76		87		30-130	13		30
2,4-Dimethylphenol	40		76		30-130	**62**	Q	30
2-Nitrophenol	81		95		30-130	16		30
4-Nitrophenol	69		78		10-80	12		30
2,4-Dinitrophenol	71		78		20-130	9		30
4,6-Dinitro-o-cresol	79		86		20-164	8		30
Phenol	62		67		12-110	8		30
3-Methylphenol/4-Methylphenol	73		90		30-130	21		30
2,4,5-Trichlorophenol	72		85		30-130	17		30
Carbazole	79		87		55-144	10		30
Atrazine	92		98		40-140	6		30
Benzaldehyde	73		87		40-140	18		30
Caprolactam	50		54		10-130	8		30
2,3,4,6-Tetrachlorophenol	73		79		40-140	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE BCB PRR

Project Number: 21455587

Lab Number: L2115550

Report Date: 04/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1480766-2 WG1480766-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		78		21-120
Phenol-d6	60		67		10-120
Nitrobenzene-d5	76		89		23-120
2-Fluorobiphenyl	68		78		15-120
2,4,6-Tribromophenol	68		82		10-120
4-Terphenyl-d14	69		73		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587
Lab Number: L2115550
Report Date: 04/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1481605-2 WG1481605-3								
Acenaphthene	66		60		40-140	10		40
2-Chloronaphthalene	68		63		40-140	8		40
Fluoranthene	76		71		40-140	7		40
Hexachlorobutadiene	53		48		40-140	10		40
Naphthalene	61		56		40-140	9		40
Benzo(a)anthracene	75		69		40-140	8		40
Benzo(a)pyrene	77		71		40-140	8		40
Benzo(b)fluoranthene	71		63		40-140	12		40
Benzo(k)fluoranthene	81		77		40-140	5		40
Chrysene	75		68		40-140	10		40
Acenaphthylene	72		66		40-140	9		40
Anthracene	76		68		40-140	11		40
Benzo(ghi)perylene	81		74		40-140	9		40
Fluorene	70		65		40-140	7		40
Phenanthrene	64		59		40-140	8		40
Dibenzo(a,h)anthracene	84		77		40-140	9		40
Indeno(1,2,3-cd)pyrene	81		73		40-140	10		40
Pyrene	77		72		40-140	7		40
2-Methylnaphthalene	67		60		40-140	11		40
Pentachlorophenol	69		74		40-140	7		40
Hexachlorobenzene	61		55		40-140	10		40
Hexachloroethane	51		50		40-140	2		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE BCB PRR

Project Number: 21455587

Lab Number: L2115550

Report Date: 04/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1481605-2 WG1481605-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	52		53		21-120
Phenol-d6	41		41		10-120
Nitrobenzene-d5	64		62		23-120
2-Fluorobiphenyl	67		61		15-120
2,4,6-Tribromophenol	87		84		10-120
4-Terphenyl-d14	75		70		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587
Lab Number: L2115550
Report Date: 04/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1482962-2 WG1482962-3								
Acenaphthene	66		65		31-137	2		50
Hexachlorobenzene	68		68		40-140	0		50
Fluoranthene	68		66		40-140	3		50
Naphthalene	64		63		40-140	2		50
Benzo(a)anthracene	66		65		40-140	2		50
Benzo(a)pyrene	67		66		40-140	2		50
Benzo(b)fluoranthene	69		67		40-140	3		50
Benzo(k)fluoranthene	63		62		40-140	2		50
Chrysene	64		64		40-140	0		50
Acenaphthylene	70		68		40-140	3		50
Anthracene	68		66		40-140	3		50
Benzo(ghi)perylene	68		67		40-140	1		50
Fluorene	68		67		40-140	1		50
Phenanthrene	66		64		40-140	3		50
Dibenzo(a,h)anthracene	67		65		40-140	3		50
Indeno(1,2,3-cd)pyrene	66		64		40-140	3		50
Pyrene	69		66		35-142	4		50
Dibenzofuran	66		66		40-140	0		50
Pentachlorophenol	64		62		17-109	3		50
Phenol	69		69		26-90	0		50
2-Methylphenol	73		73		30-130.	0		50
3-Methylphenol/4-Methylphenol	71		72		30-130	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE BCB PRR

Project Number: 21455587

Lab Number: L2115550

Report Date: 04/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1482962-2 WG1482962-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	68		68		25-120
Phenol-d6	74		74		10-120
Nitrobenzene-d5	74		73		23-120
2-Fluorobiphenyl	70		69		30-120
2,4,6-Tribromophenol	86		81		10-136
4-Terphenyl-d14	66		63		18-120

METALS

Project Name: 89 LASALLE BCB PRR
Lab Number: L2115550
Project Number: 21455587
Report Date: 04/08/21

SAMPLE RESULTS

Lab ID: L2115550-01
Client ID: MH-1 STORMWATER
Sample Location: 89 LASALLE AVE, BUFFALO, NY
Date Collected: 03/28/21 12:55
Date Received: 03/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.234		mg/l	0.0100	0.00327	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Antimony, Total	0.00082	J	mg/l	0.00400	0.00042	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Arsenic, Total	0.00046	J	mg/l	0.00050	0.00016	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Barium, Total	0.00534		mg/l	0.00050	0.00017	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Cadmium, Total	0.00009	J	mg/l	0.00020	0.00005	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Calcium, Total	13.0		mg/l	0.100	0.0394	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Chromium, Total	0.00272		mg/l	0.00100	0.00017	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Cobalt, Total	0.00023	J	mg/l	0.00050	0.00016	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Copper, Total	0.00466		mg/l	0.00100	0.00038	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Iron, Total	0.464		mg/l	0.0700	0.0191	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Lead, Total	0.00243		mg/l	0.00100	0.00034	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Magnesium, Total	0.878		mg/l	0.0700	0.0242	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Manganese, Total	0.01561		mg/l	0.00100	0.00044	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Mercury, Total	0.00010	J	mg/l	0.00020	0.00009	1	04/01/21 08:08	04/01/21 14:37	EPA 7470A	1,7470A	OU
Nickel, Total	0.00136	J	mg/l	0.00200	0.00055	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Potassium, Total	0.631		mg/l	0.100	0.0309	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Silver, Total	0.00119		mg/l	0.00040	0.00016	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Sodium, Total	34.2		mg/l	0.100	0.0293	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Vanadium, Total	0.00200	J	mg/l	0.00500	0.00157	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD
Zinc, Total	0.02719		mg/l	0.01000	0.00341	1	03/31/21 06:00	04/01/21 16:09	EPA 3005A	1,6020B	CD

Project Name: 89 LASALLE BCB PRR
Lab Number: L2115550
Project Number: 21455587
Report Date: 04/08/21

SAMPLE RESULTS

Lab ID: L2115550-02
Client ID: MH-1 SEDIMENT
Sample Location: 89 LASALLE AVE, BUFFALO, NY
Date Collected: 03/28/21 13:00
Date Received: 03/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	883		mg/kg	9.79	2.64	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.90	0.372	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Arsenic, Total	1.44		mg/kg	0.979	0.204	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Barium, Total	6.98		mg/kg	0.979	0.170	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Beryllium, Total	ND		mg/kg	0.490	0.032	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Cadmium, Total	0.098	J	mg/kg	0.979	0.096	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Calcium, Total	112000		mg/kg	97.9	34.3	20	04/02/21 08:40	04/06/21 12:49	EPA 3050B	1,6010D	SV
Chromium, Total	2.64		mg/kg	0.979	0.094	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Cobalt, Total	1.03	J	mg/kg	1.96	0.162	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Copper, Total	3.38		mg/kg	0.979	0.252	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Iron, Total	3650		mg/kg	4.90	0.884	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Lead, Total	5.98		mg/kg	4.90	0.262	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Magnesium, Total	13500		mg/kg	9.79	1.51	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Manganese, Total	215		mg/kg	0.979	0.156	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.082	0.054	1	04/02/21 09:45	04/02/21 19:07	EPA 7471B	1,7471B	OU
Nickel, Total	3.54		mg/kg	2.45	0.237	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Potassium, Total	216	J	mg/kg	245	14.1	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Selenium, Total	0.764	J	mg/kg	1.96	0.252	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.979	0.277	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Sodium, Total	217		mg/kg	196	3.08	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Thallium, Total	0.754	J	mg/kg	1.96	0.308	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Vanadium, Total	4.90		mg/kg	0.979	0.199	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV
Zinc, Total	19.7		mg/kg	4.90	0.287	2	04/02/21 08:40	04/05/21 22:56	EPA 3050B	1,6010D	BV

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587
Lab Number: L2115550
Report Date: 04/08/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1479313-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Barium, Total	ND		mg/l	0.00050	0.00017	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Calcium, Total	ND		mg/l	0.100	0.0394	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Chromium, Total	ND		mg/l	0.00100	0.00017	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Copper, Total	ND		mg/l	0.00100	0.00038	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Iron, Total	0.0529	J	mg/l	0.0700	0.0191	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Manganese, Total	ND		mg/l	0.00100	0.00044	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Potassium, Total	ND		mg/l	0.100	0.0309	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Sodium, Total	ND		mg/l	0.100	0.0293	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Thallium, Total	0.00027	J	mg/l	0.00100	0.00014	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD
Zinc, Total	ND		mg/l	0.01000	0.00341	1	03/31/21 06:00	04/01/21 13:17	1,6020B	CD

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02 Batch: WG1481013-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Antimony, Total	ND		mg/kg	2.00	0.152	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Arsenic, Total	0.096	J	mg/kg	0.400	0.083	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV

Project Name: 89 LASALLE BCB PRR **Lab Number:** L2115550

Project Number: 21455587 **Report Date:** 04/08/21

Method Blank Analysis
Batch Quality Control

Barium, Total	ND	mg/kg	0.400	0.070	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Beryllium, Total	ND	mg/kg	0.200	0.013	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Cadmium, Total	ND	mg/kg	0.400	0.039	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Calcium, Total	ND	mg/kg	4.00	1.40	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Chromium, Total	ND	mg/kg	0.400	0.038	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Cobalt, Total	ND	mg/kg	0.800	0.066	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Copper, Total	ND	mg/kg	0.400	0.103	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Iron, Total	ND	mg/kg	2.00	0.361	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Lead, Total	ND	mg/kg	2.00	0.107	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Magnesium, Total	ND	mg/kg	4.00	0.616	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Manganese, Total	ND	mg/kg	0.400	0.064	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Nickel, Total	ND	mg/kg	1.00	0.097	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Potassium, Total	ND	mg/kg	100	5.76	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Selenium, Total	ND	mg/kg	0.800	0.103	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Silver, Total	ND	mg/kg	0.400	0.113	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Sodium, Total	ND	mg/kg	80.0	1.26	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Thallium, Total	ND	mg/kg	0.800	0.126	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Vanadium, Total	ND	mg/kg	0.400	0.081	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV
Zinc, Total	ND	mg/kg	2.00	0.117	1	04/02/21 08:40	04/05/21 22:41	1,6010D	BV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02 Batch: WG1481027-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	04/02/21 09:45	04/02/21 18:47	1,7471B	OU

Prep Information

Digestion Method: EPA 7471B

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587
Lab Number: L2115550
Report Date: 04/08/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1481197-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	04/01/21 08:08	04/01/21 14:14	1,7470A	OU

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE BCB PRR

Project Number: 21455587

Lab Number: L2115550

Report Date: 04/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1479313-2								
Aluminum, Total	108		-		80-120	-		
Antimony, Total	94		-		80-120	-		
Arsenic, Total	106		-		80-120	-		
Barium, Total	106		-		80-120	-		
Beryllium, Total	105		-		80-120	-		
Cadmium, Total	108		-		80-120	-		
Calcium, Total	98		-		80-120	-		
Chromium, Total	102		-		80-120	-		
Cobalt, Total	106		-		80-120	-		
Copper, Total	112		-		80-120	-		
Iron, Total	106		-		80-120	-		
Lead, Total	109		-		80-120	-		
Magnesium, Total	106		-		80-120	-		
Manganese, Total	105		-		80-120	-		
Nickel, Total	102		-		80-120	-		
Potassium, Total	108		-		80-120	-		
Selenium, Total	103		-		80-120	-		
Silver, Total	105		-		80-120	-		
Sodium, Total	107		-		80-120	-		
Thallium, Total	110		-		80-120	-		
Vanadium, Total	98		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE BCB PRR

Project Number: 21455587

Lab Number: L2115550

Report Date: 04/08/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1479313-2					
Zinc, Total	108	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE BCB PRR

Project Number: 21455587

Lab Number: L2115550

Report Date: 04/08/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1481013-2 SRM Lot Number: D109-540					
Aluminum, Total	72	-	50-150	-	
Antimony, Total	116	-	19-250	-	
Arsenic, Total	97	-	70-130	-	
Barium, Total	93	-	75-125	-	
Beryllium, Total	101	-	75-125	-	
Cadmium, Total	98	-	75-125	-	
Calcium, Total	93	-	73-128	-	
Chromium, Total	97	-	70-130	-	
Cobalt, Total	102	-	75-125	-	
Copper, Total	94	-	75-125	-	
Iron, Total	93	-	35-165	-	
Lead, Total	93	-	72-128	-	
Magnesium, Total	85	-	62-138	-	
Manganese, Total	93	-	74-126	-	
Nickel, Total	100	-	70-130	-	
Potassium, Total	88	-	59-141	-	
Selenium, Total	96	-	68-132	-	
Silver, Total	92	-	68-131	-	
Sodium, Total	99	-	35-165	-	
Thallium, Total	97	-	68-131	-	
Vanadium, Total	94	-	59-141	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE BCB PRR

Project Number: 21455587

Lab Number: L2115550

Report Date: 04/08/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1481013-2 SRM Lot Number: D109-540					
Zinc, Total	95	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1481027-2 SRM Lot Number: D109-540					
Mercury, Total	91	-	60-140	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1481197-2					
Mercury, Total	101	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587

Lab Number: L2115550
Report Date: 04/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1479313-3 QC Sample: L2115091-01 Client ID: MS Sample												
Aluminum, Total	ND	2	1.99	100		-	-		75-125	-		20
Antimony, Total	ND	0.5	0.4925	98		-	-		75-125	-		20
Arsenic, Total	0.00300J	0.12	0.1263	105		-	-		75-125	-		20
Barium, Total	0.2614	2	2.438	109		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.04331	87		-	-		75-125	-		20
Cadmium, Total	ND	0.051	0.04715	92		-	-		75-125	-		20
Calcium, Total	627	10	612	**0**	Q	-	-		75-125	-		20
Chromium, Total	ND	0.2	0.1893	95		-	-		75-125	-		20
Cobalt, Total	ND	0.5	0.5160	103		-	-		75-125	-		20
Copper, Total	ND	0.25	0.2494	100		-	-		75-125	-		20
Iron, Total	ND	1	1.35	**135**	Q	-	-		75-125	-		20
Lead, Total	ND	0.51	0.5941	116		-	-		75-125	-		20
Magnesium, Total	207	10	209	**20**	Q	-	-		75-125	-		20
Manganese, Total	0.3450	0.5	0.8080	93		-	-		75-125	-		20
Nickel, Total	ND	0.5	0.4650	93		-	-		75-125	-		20
Potassium, Total	111	10	117	**60**	Q	-	-		75-125	-		20
Selenium, Total	ND	0.12	0.105	88		-	-		75-125	-		20
Silver, Total	ND	0.05	0.04891	98		-	-		75-125	-		20
Sodium, Total	4630	10	4610	**0**	Q	-	-		75-125	-		20
Thallium, Total	0.0086J	0.12	0.1268	106		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.4935	99		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587

Lab Number: L2115550
Report Date: 04/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1479313-3 QC Sample: L2115091-01 Client ID: MS Sample									
Zinc, Total	0.03459J	0.5	0.4784	96	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587

Lab Number: L2115550
Report Date: 04/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1481013-3 WG1481013-4 QC Sample: L2115698-21 Client ID: MS Sample												
Aluminum, Total	9010	172	9170	93		8950	**0**	Q	75-125	2		20
Antimony, Total	1.09J	42.9	34.1	80		32.5	77		75-125	5		20
Arsenic, Total	9.43	10.3	18.3	86		19.2	96		75-125	5		20
Barium, Total	81.1	172	201	**70**	Q	201	**71**	Q	75-125	0		20
Beryllium, Total	0.500	4.29	4.33	89		4.34	91		75-125	0		20
Cadmium, Total	0.578J	4.37	4.52	103		4.63	108		75-125	2		20
Calcium, Total	31800	858	37200	**630**	Q	23400	**0**	Q	75-125	**46**	Q	20
Chromium, Total	14.0	17.2	29.4	90		30.0	95		75-125	2		20
Cobalt, Total	8.83	42.9	45.3	85		45.9	88		75-125	1		20
Copper, Total	24.4	21.4	39.0	**68**	Q	41.3	80		75-125	6		20
Iron, Total	24000	85.8	21900	**0**	Q	22500	**0**	Q	75-125	3		20
Lead, Total	49.4	43.7	71.4	**50**	Q	77.5	**65**	Q	75-125	8		20
Magnesium, Total	6300	858	6740	**51**	Q	7040	88		75-125	4		20
Manganese, Total	384	42.9	462	**182**	Q	413	**69**	Q	75-125	11		20
Nickel, Total	23.8	42.9	56.4	76		58.4	82		75-125	3		20
Potassium, Total	1060	858	1500	**51**	Q	1440	**45**	Q	75-125	4		20
Selenium, Total	0.457J	10.3	9.47	92		9.42	93		75-125	1		20
Silver, Total	ND	25.7	23.0	89		23.3	92		75-125	1		20
Sodium, Total	161J	858	959	112		955	113		75-125	0		20
Thallium, Total	0.578J	10.3	8.41	82		8.63	85		75-125	3		20
Vanadium, Total	18.1	42.9	56.5	90		55.1	88		75-125	3		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587

Lab Number: L2115550
Report Date: 04/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1481013-3 WG1481013-4 QC Sample: L2115698-21 Client ID: MS Sample											
Zinc, Total	104	42.9	124	**47**	Q	139	83		75-125	11	20
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1481027-3 WG1481027-4 QC Sample: L2115698-21 Client ID: MS Sample											
Mercury, Total	0.058J	0.14	0.199	**142**	Q	0.195	**140**	Q	80-120	2	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1481197-3 QC Sample: L2115972-01 Client ID: MS Sample											
Mercury, Total	ND	0.005	0.00495	99		-	-		75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 89 LASALLE BCB PRR

Project Number: 21455587

Lab Number: L2115550

Report Date: 04/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1479313-4 QC Sample: L2115091-01 Client ID: DUP Sample						
Arsenic, Total	0.00300J	0.00289J	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Copper, Total	ND	ND	mg/l	NC		20
Lead, Total	ND	ND	mg/l	NC		20
Nickel, Total	ND	ND	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.03459J	0.03665J	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587

Lab Number: L2115550
Report Date: 04/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1481013-5 QC Sample: L2115698-21 Client ID: DUP Sample						
Aluminum, Total	9010	8780	mg/kg	3		20
Antimony, Total	1.09J	1.30J	mg/kg	NC		20
Arsenic, Total	9.43	7.97	mg/kg	17		20
Barium, Total	81.1	54.7	mg/kg	**39**	Q	20
Beryllium, Total	0.500	0.406J	mg/kg	NC		20
Cadmium, Total	0.578J	0.541J	mg/kg	NC		20
Calcium, Total	31800	24600	mg/kg	**26**	Q	20
Chromium, Total	14.0	14.0	mg/kg	0		20
Cobalt, Total	8.83	8.91	mg/kg	1		20
Copper, Total	24.4	20.2	mg/kg	19		20
Iron, Total	24000	23200	mg/kg	3		20
Lead, Total	49.4	44.9	mg/kg	10		20
Magnesium, Total	6300	7230	mg/kg	14		20
Manganese, Total	384	373	mg/kg	3		20
Nickel, Total	23.8	21.7	mg/kg	9		20
Potassium, Total	1060	700	mg/kg	**41**	Q	20
Selenium, Total	0.457J	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	161J	116J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587

Lab Number: L2115550
Report Date: 04/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1481013-5 QC Sample: L2115698-21 Client ID: DUP Sample					
Thallium, Total	0.578J	0.532J	mg/kg	NC	20
Vanadium, Total	18.1	16.4	mg/kg	10	20
Zinc, Total	104	90.5	mg/kg	14	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1481197-4 QC Sample: L2115972-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2115550
Report Date: 04/08/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1481013-7 QC Sample: L2115698-21 Client ID: DUP Sample						
Aluminum, Total	9010	9880	mg/kg	10		20
Barium, Total	81.1	90.2	mg/kg	11		20
Calcium, Total	31800	34900	mg/kg	10		20
Copper, Total	24.4	25.6	mg/kg	5		20
Iron, Total	24000	26300	mg/kg	10		20
Magnesium, Total	6300	7130	mg/kg	13		20
Manganese, Total	384	425	mg/kg	11		20

INORGANICS
&
MISCELLANEOUS

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587
Lab Number: L2115550
Report Date: 04/08/21

SAMPLE RESULTS

Lab ID: L2115550-02
Client ID: MH-1 SEDIMENT
Sample Location: 89 LASALLE AVE, BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 03/28/21 13:00
Date Received: 03/29/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.8		%	0.100	NA	1	-	03/30/21 12:53	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 89 LASALLE BCB PRR

Project Number: 21455587

Lab Number: L2115550

Report Date: 04/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1480413-1 QC Sample: L2115642-01 Client ID: DUP Sample						
Solids, Total	92.5	92.9	%	0		20

Project Name: 89 LASALLE BCB PRR
Project Number: 21455587

Lab Number: L2115550
Report Date: 04/08/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2115550-01A	Plastic 250ml HNO3 preserved	A	<2	<2	3.8	Y	Absent		FE-6020T(180),SE-6020T(180),BA-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),HG-T(28),MG-6020T(180),AL-6020T(180),CD-6020T(180),AG-6020T(180),CO-6020T(180)
L2115550-01B	Amber 250ml unpreserved	A	6	6	3.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2115550-01C	Amber 250ml unpreserved	A	6	6	3.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2115550-02A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2115550-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2115550-02C	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14)

*Values in parentheses indicate holding time in days

Project Name:	89 LASALLE BCB PRR	**Lab Number:**	L2115550
Project Number:	21455587	**Report Date:**	04/08/21

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.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	89 LASALLE BCB PRR	**Lab Number:**	L2115550
Project Number:	21455587	**Report Date:**	04/08/21

Footnotes

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. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). 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.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	89 LASALLE BCB PRR	**Lab Number:**	L2115550
Project Number:	21455587	**Report Date:**	04/08/21

Data Qualifiers

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 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.

Project Name:	89 LASALLE BCB PRR	**Lab Number:**	L2115550
Project Number:	21455587	**Report Date:**	04/08/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
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 1

Date Rec'd in Lab: 3/30/21

ALPHA Job #: L2115550

Client Information

Client: GOLDER ASSOCIATES
Address: 455 COMMERCE DR SUITE 8
Phone: 716-204-5880
Fax:
Email: PTmartin@golder.com

Project Information

Project Name: 89 LASALLE BLVD ARR
Project Location: 89 LASALLE AVE, BUFFALO NY
Project #: 21455587
(Use Project name as Project #) ☐
Project Manager: PATRICK MARTIN
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL 8270D	TAL METALS 6010D Note Hg	TS						Total Bottle
15550-01	MH-1 STORMWATER	03/28/21	12:55	WATER	PTM	X	X							
-02	MH-1 SEDIMENT	03/28/21	13:00	SED	PTM	X	X	X						

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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									

Relinquished By:	Date/Time	Received By:	Date/Time
Patrick T Martin	3/29/21 12:35	J. Donovan DHL	3/30/21 12:35
J. Donovan DHL	3/30/21 13:30		3/30/21 01:45

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

APPENDIX B

SEMI-ANNUAL SITE INSPECTION FORM & PHOTO LOG DOCUMENTATION

89 LaSalle Avenue
BUFFALO, NEW YORK
Site Management Plan

NYSDEC Site Number: C915283

SEMI-ANNUAL INSPECTION FORM

NOV. 30, 2020

Inspection Item Description	Frequency	Comments	Corrective Action (If Required)
Site Cover Systems: - Soil Cover - Asphalt Paved Areas - Concrete Sidewalks and other concrete structures - Other (if applicable) **Document specific locations and nature of condition issue if any observed.**	Semi-Annually	SOIL COVER SYSTEMS IN EXCELLENT COND. EXCELLENT COND. EXCELLENT COND. N/A	N/A
Stormwater – Manhole Discharge Sampling Location General Condition	Semi-Annually	COMPLETED @ MH-1 ON 11/30/20 AFTER >0.5" RAINFALL EVENT (SEDIMENT NOT PRESENT)	N/A
Excavation Work Locations – General Conditions	Per Occurrence	NO ACTIVE INTRUSIVE WORK AT THE SITE	N/A

Patrick T. Martin
11/30/20

89 LaSalle Avenue
BUFFALO, NEW YORK
Site Management Plan

NYSDEC Site Number: C915283

SEMI-ANNUAL INSPECTION FORM

MARCH 28, 2021

Inspection Item Description	Frequency	Comments	Corrective Action (If Required)
Site Cover Systems: - Soil Cover - Asphalt Paved Areas - Concrete Sidewalks and other concrete structures - Other (if applicable) **Document specific locations and nature of condition issue if any observed.**	Semi-Annually	EXCELLENT COND. EXCELLENT COND. EXCELLENT COND. N/A	N/A
Stormwater – Manhole Discharge Sampling Location General Condition	Semi-Annually	COMPLETED @ MH-1 ON 3/28/21 AFTER >0.4" RAIN EVENT	N/A
Excavation Work Locations – General Conditions	Per Occurrence	NO INTRUSIVE WORK CURRENTLY BEING CONDUCTED	N/A

Patrick T. Martin
3/28/21

PROJECT TITLE: SITE MANAGEMENT PLAN: 89 LA SALLE AVE SITE – PRR SITE INSPECTION

PHOTO 1

Description: MH-1 Sampling location

11/30/20

PHOTO 2

Description: Former location of block service building on LaSalle Ave (demolished). Looking northeast

3/28/21

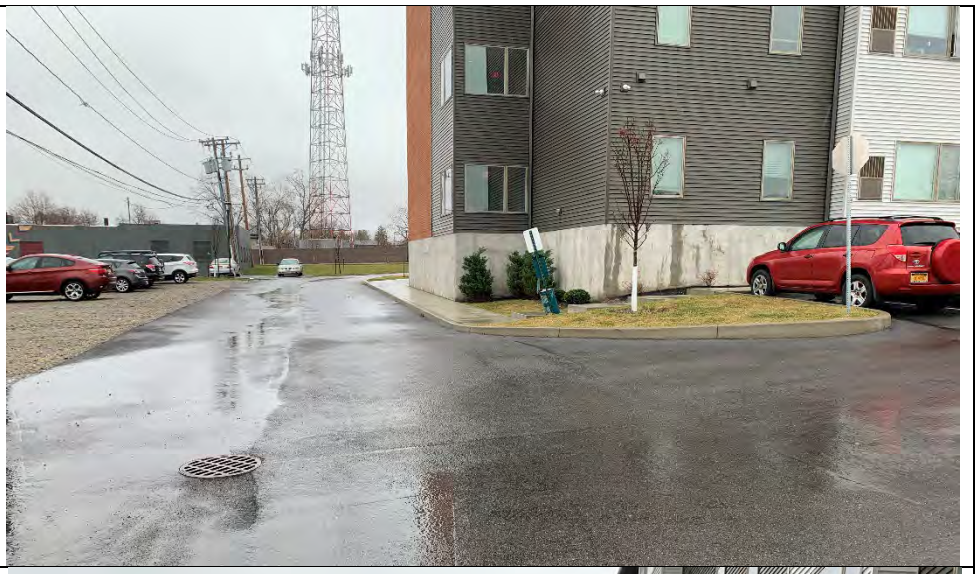
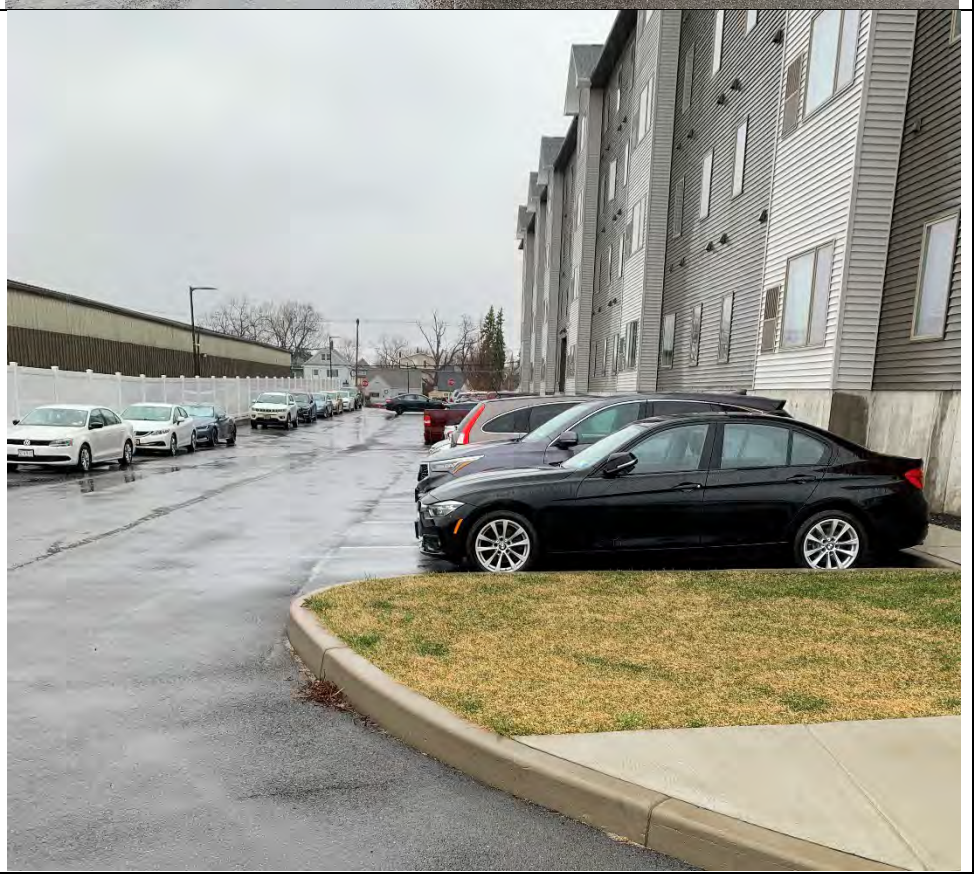
PHOTO 3 Description: Northwest corner of Building 1. Looking east-southeast 3/28/21	
PHOTO 4 Description: West side of Building 1. Looking east-northeast 3/28/21	

PHOTO 5

Description: South of Building 1 access road. Looking east

11/30/20

PHOTO 6

Description: Access road and parking area between Buildings 4 and 5. Looking northeast

3/28/21

PHOTO 7 Description: Vegetated soil cover south of Building 5. Looking northeast 3/28/21	
PHOTO 8 Description: Building 2 courtyard area, stabilized. Looking northeast 3/28/21	

PHOTO 9 Description: Access road and parking areas east of Building 2. Looking southeast 3/28/21	
PHOTO 10 Description: Access road and parking areas north of Building 2. Looking east 11/30/20	

PHOTO 11

Description: Traffic circle at main entrance. Looking northwest

3/28/21

APPENDIX C

SITE C915283 SITE MANAGEMENT PLAN PERIODIC REVIEW REPORT – 2020/2021
ICS-ECS CERTIFICATION FORM

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Site Management Periodic Review Report Notice

Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C915283**

Site Name 89 LaSalle Avenue Site

Site Address: 89 LaSalle Avenue Zip Code: 14212
City/Town: Buffalo
County: Erie
Site Acreage: 9.230

Reporting Period: March 30, 2020 to March 30, 2021

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

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	☐
7. Are all ICs in place and functioning as designed?	X	☐

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

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

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

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

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

	YES	NO
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

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

SITE NO. C915283 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
~~**79.70-2-11**~~	~~Legacy LaSalle, LLC~~	
79.70-2-16.111 (partial)	City Of Buffalo	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan
79.70-2-5.1	Legacy UPAL LP	

1. Prohibition of groundwater use.
2. Land use restricted to Restricted Residential, Commercial or Industrial purposes.
3. Soil Management for any future intrusive work.

~~**79.70-2-17.1**~~	~~Legacy LaSalle, LLC~~	~~Landuse Restriction~~ ~~Ground Water Use Restriction~~ ~~Soil Management Plan~~ ~~Monitoring Plan~~ ~~Site Management Plan~~ ~~IC/EC Plan~~

~~1. Prohibition of groundwater use.~~
~~2. Land use restricted to Restricted Residential, Commercial or Industrial purposes.~~
~~3. Soil Management for any future intrusive work.~~

~~**79.70-2-18**~~	~~Legacy LaSalle, LLC~~	~~Ground Water Use Restriction~~ ~~Soil Management Plan~~ ~~Landuse Restriction~~ ~~Monitoring Plan~~ ~~Site Management Plan~~ ~~IC/EC Plan~~

~~1. Prohibition of groundwater use.~~
~~2. Land use restricted to Restricted Residential, Commercial or Industrial purposes.~~
~~3. Soil Management for any future intrusive work.~~

~~**portion of 79.70-2-16.11**~~	~~Legacy LaSalle, LLC~~	~~Ground Water Use Restriction~~ ~~Soil Management Plan~~ ~~Landuse Restriction~~ ~~Monitoring Plan~~ ~~Site Management Plan~~ ~~IC/EC Plan~~
		~~Ground Water Use Restriction~~ ~~Soil Management Plan~~ ~~Landuse Restriction~~ ~~Monitoring Plan~~ ~~Site Management Plan~~ ~~IC/EC Plan~~

~~1. Prohibition of groundwater use.~~
~~2. Land use restricted to Restricted Residential, Commercial or Industrial purposes.~~
~~3. Soil Management for any future intrusive work.~~

~~**portion of 79.70-2-17.2**~~	~~Legacy LaSalle, LLC~~	~~Ground Water Use Restriction~~ ~~Soil Management Plan~~ ~~Landuse Restriction~~ ~~Monitoring Plan~~ ~~Site Management Plan~~ ~~IC/EC Plan~~

~~1. Prohibition of groundwater use.~~
~~2. Land use restricted to Restricted Residential, Commercial or Industrial purposes.~~

~~3. Soil Management for any future intrusive work.~~

Box 4

Description of Engineering Controls

Parcel	Engineering Control
~~**79.70-2-11**~~ **79.70-2-16.111 (partial)** **79.70-2-5.1**	Cover System

1. Monitoring and maintenance of the cover system.
2. Semi-annual storm water and sediment monitoring.

~~**79.70-2-17.1**~~ ~~Cover System~~

~~1. Monitoring and maintenance of the cover system.~~
~~2. Semi-annual storm water and sediment monitoring.~~

~~**79.70-2-18**~~ ~~Cover System~~

~~1. Monitoring and maintenance of the cover system.~~
~~2. Semi-annual storm water and sediment monitoring.~~

~~**portion of 79.70-2-16.11**~~ ~~Cover System~~
~~Cover System~~

~~1. Monitoring and maintenance of the cover system.~~
~~2. Semi-annual storm water and sediment monitoring.~~

~~**portion of 79.70-2-17.2**~~ ~~Cover System~~

~~1. Monitoring and maintenance of the cover system.~~
~~2. Semi-annual storm water and sediment monitoring.~~

Box 5

Periodic Review Report (PRR) Certification Statements

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

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

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

YES	NO
X	

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

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

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

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

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

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

YES	NO
X	

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C915283

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 PATRICK T. MARTIN at 455 COMMERCE DR, STE 8, BUFFALO, NY
print name print business address

am certifying as OWNER (Owner or Remedial Party)

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

Patrick T. Martin 6/24/21
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

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

I PATRICK J. MARTIN at 455 COMMERCE DR, STE. 8, BUFFALO, NY
print name print business address

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

STATE OF NEW YORK
PATRICK T. MARTIN
No. 71014-1
LICENSED PROFESSIONAL ENGINEER

Patrick J. Martin 6/24/21
Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification — Stamp (Required for PE) — Date