SANBORN HEAD
Building Trust. Engineering Success.

1 Technology Park Drive
Westford, MA 01886

U.S. Environmental Protection Agency
Office of Ecosystem Protection
EPA/OEP RGP Applications Coordinator
5 Post Office Square, Suite 100 (OEP06-01)
Boston, MA 02109-3912

March 23, 2021
File No. 4867.00

Re: Notice of Intent for the Remediation General Permit
Temporary Construction Dewatering for Demolition
776 Summer Street, South Boston, Massachusetts

Dear Sir/Madam:

On behalf of HRP 776 Summer Street, LLC (HRP), Sanborn, Head & Associates, Inc. (Sanborn Head) is submitting this Notice of Intent (NOI) to the United States Environmental Protection Agency (USEPA) for coverage under the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) MAG910000 for 776 Summer Street in South Boston, Massachusetts (the Site). This letter and supporting documentation were prepared in accordance with the USEPA guidance for construction dewatering under the RGP program. HRP is the owner of the Site and will have responsibility for the contractors/subcontractors performing the dewatering activities at the Site. Contractors and subcontractors working for HRP on the project will be required to meet the requirements of this NOI and the RGP. The location of the Site and the discharge locations into the Reserved Channel via private on-Site storm water catch basins are shown on Figure 1 and Figure 2.

The Site is approximately 15 acres and was previously operated as the New Boston Generating Station. The first phase of redevelopment activities at the Site include removal of various structures and foundations on the Site, selective demolition of structures that are anticipated to remain and be redeveloped, removal of various infrastructure elements including but not limited to, below grade piping systems, storm water systems, electrical distribution components, and various equipment bases and pads throughout the Site. Development plans for the Site include construction of a mixed-use redevelopment with portions of the existing buildings being renovated and up to six new buildings constructed with below grade parking.

The Site was operated as a power generation station from the 1890s through 2016, with various fuel sources including coal, oil, and natural gas. Prior to power generating, the Site was used for other industrial activities including a boiler shop/manufacturing facility, ship building and warehousing. The eastern portion of the Site also operated as the Boston Lunatic Hospital and Suffolk County House of Corrections. The Site has been the subject of many environmental investigations and remediation activities, and in 2015, USEPA made a "Completion with Controls" determination for the Site based on the use as a power plant. The Site is the subject of seven Release Tracking Numbers (RTNs) including 3-12817, 3-

13007, 3-14575, 3-17596, 3-22165, 3-26342, and 3-28038. Regulatory closure has been achieved for the RTNs, and an Activity and Use Limitation (AUL) is associated with RTN 3-13007 restricting residential and other sensitive uses has been recorded for a small portion of the Site adjacent to South Street. The AUL places conditions on soil disturbance on the applicable portion of the property; however, no work is planned within the AUL area for the demolition phase of the project.

Water sampling was performed in several below grade tunnels and structures across the Site as part of assessment activities and contaminants in water were not detected at concentrations above applicable MCP Reportable Concentrations.

The proposed first phase of redevelopment at the Site will require removal of water from below grade tunnels, foundation pits, and vaults, and groundwater encountered during excavation activities. Groundwater is anticipated to be encountered between approximately 3.9 and 7.2 feet below ground surface (bgs). Below grade water and groundwater which requires dewatering and cannot be discharged back into the ground will be treated prior to discharge to the existing storm water system and associated private on-Site catch basins such that the discharged effluent meets the effluent limitations established by NPDES Part 2.1 and Appendix V of the RGP Application. Figure 3 includes a schematic of the proposed dewatering treatment system. The completed NOI for the Remediation General Permit form is included as Appendix A.

On January 27, 2021, Sanborn Head, the project's environmental consultant, collected four water samples to characterize the receiving and source waters in support of this NOI. The source water samples were collected from standing water in below grade tunnels and structures identified as NPDES-1, NPDES-2, and NPDES-3 on Figure 2. The receiving water sample was collected from the Reserved Channel adjacent to the proposed discharge locations at Outfall 1 and Outfall 2. The water samples were collected from dedicated, disposable bailers and were submitted to Alpha Analytical Laboratories, Inc. (Alpha) of Westborough, MA for analysis for the 2017 NPDES suite of parameters.

The discharge point for the treatment system will be on-Site private storm water catch basins located adjacent to Outfall 1 and Outfall 2, which discharge to the Reserved Channel receiving surface water. The intent of this permit application is to be able to discharge to either or both outfalls simultaneously during construction dewatering to accommodate total flow rates of up to 800 gallons per minute (GPM). Information regarding the receiving water was collected from the Massachusetts Year 2016 Integrated List of Waters which is included in Appendix B. Analytical laboratory data for on-Site and surface water sampling is summarized in Tables 1 and 2, respectively, and analytical data reports are included in Appendix C. Municipal correspondence with the Boston Water and Sewer Commission was performed concurrently with the submittal of this NOI, and a copy of the notification is included in Appendix D.

According to the Information for Planning and Conservation (IPaC), available through the U.S. Fish and Wildlife Service (FWS) website, the proposed on-Site dewatering activities will not impact Areas of Critical Environmental Concern (ACEC) or Habitats of Rare Wetland

Wildlife. A letter from the FWS is included in Appendix E. An email requesting information regarding federally listed species in the project discharge area of the Reserved Channel was sent to the National Oceanic and Atmospheric Administration (NOAA), and their response, included in Appendix E, request the use of their mapper of Section 7 species. While the FWS identified no threatened/endangered/candidate species or critical habitats in the area the mapper tool indicates that there are several Section 7 Species, as shown in Appendix E. However, based on the proposed activities a no-effects determination has been made.

A review of the National Register of Historic Places within South Boston was performed. Based on the review, the discharge and discharge-related activities do not have the potential to cause effects on historic properties. A list of the properties reviewed is included in Appendix F.

Thank you for your consideration of this NOI/Permit. Please feel free to contact us if you wish to discuss the information contained in this application, or if any additional information is needed.

Very truly yours,
SANBORN, HEAD & ASSOCIATES, INC.

Patrick R. Malone, P.E.
Project Director

Patricia M. Pinto, P.E., LSP
Senior Vice President/Principal

PRM/PMP: prm

Encl. Table 1 – Summary of Influent Water Quality Data
Table 2 – Summary of Receiving Water Quality Data
Figure 1 – Locus Plan
Figure 2 – Site Plan
Figure 3 – Proposed Groundwater Treatment Schematic
Appendix A – Notice of Intent Form
Appendix B – Selected Massachusetts Category 5 Waters
Appendix C – Analytical Data Reports
Appendix D – Municipal Correspondence
Appendix E – Federal Correspondence
Appendix F – National Register of Historic Places – Boston, MA

cc: City of Boston Board of Health
DEP Bureau of Water Resources

P:\4800s\4867.00\Source Files\NPDES NOI\20210323 NPDES RGP NOI Cover Letter.docx

TABLES

Table 1
Summary of Influent Water Quality Data
776 Summer Street, South Boston, Massachusetts

LOCATION	MCP	NPDES TBEL	Units	NPDES-1	NPDES-2	NPDES-3	Maximum Detection	Average Detection
SAMPLING DATE	RCGW-2			1/27/2021	1/27/2021	1/27/2021		
Anions by Ion Chromatography								
Chloride	NS	Monitor Only	ug/L	**13,600,000**	**18,900,000**	**125,000**	**18,900,000**	**10,875,000**
General Chemistry								
Chromium, Trivalent	600	323	ug/L	<10	<10	<10	BDL	BDL
Solids, Total Suspended	NS	30	mg/L	**10,000**	**23,000**	<5000	**23,000**	**16,500**
Cyanide, Total	30	178,000	ug/L	<5	<5	<5	BDL	BDL
Chlorine, Total Residual	NS	200	ug/L	<20	<20	<20	BDL	BDL
Nitrogen, Ammonia	NS	Monitor Only	ug/L	<75	**116**	<75	**116**	**116.00**
TPH, SGT-HEM	5,000	5,000	ug/L	<4,000	<4,000	<4,000	BDL	BDL
Phenolics, Total	NS	1,080	ug/L	<30	<30	<30	BDL	BDL
Chromium, Hexavalent	300	323	ug/L	<10	<10	<10	BDL	BDL
Microextractables by GC								
1,2-Dibromoethane	2	0.05	ug/L	<0.01	<0.01	<0.01	BDL	BDL
1,2-Dibromo-3-chloropropane	1,000		ug/L	<0.01	<0.01	<0.01	BDL	BDL
1,2,3-Trichloropropane	10,000		ug/L	<0.01	<.029	<0.01	BDL	BDL
Polychlorinated Biphenyls by GC								
Total PCBs	5	0.000064	ug/L	BDL	BDL	BDL	BDL	BDL
Semivolatile Organics by GC/MS								
Total Phthalates	NS	190	ug/L	BDL (5.0)	BDL (5.0)	BDL (5.0)	BDL	BDL
Semivolatile Organics by GC/MS-SIM								
Naphthalene	700	20	ug/L	**0.104**	<0.1	<0.1	**0.10**	**0.10**
Pentachlorophenol	200	1.0	ug/L	<1	<1	<1	BDL	BDL
Total Group 1 PAHs	NS	1.0	ug/L	BDL(0.1)	BDL(0.1)	BDL(0.1)	BDL	BDL
Total Group 2 PAHs	NS	100	ug/L	BDL(0.1)	BDL(0.1)	BDL(0.1)	BDL	BDL
Total SVOCs	NS	NS	ug/L	**0.104**	BDL(1.0)	BDL(1.0)	0.10	0.10
Total Metals								
Antimony, Total	8,000	206	ug/L	<40	<40	<4	BDL	BDL
Arsenic, Total	900	104	ug/L	<10	**10.8**	<1	**10.80**	**10.80**
Cadmium, Total	4	10.2	ug/L	<2	<2	<0.2	BDL	BDL
Chromium, Total	300	323	ug/L	<10	<10	<1	BDL	BDL
Copper, Total	100,000	242	ug/L	<10	<10	**1.34**	**1.34**	**1.34**
Iron, Total	NS	5,000	ug/L	**345**	**191**	**54**	**345.00**	**196.67**
Lead, Total	10	160	ug/L	**15.17**	<10	<1	**15.17**	**15.17**
Mercury, Total	20	0.739	ug/L	<0.2	<0.2	<0.2	BDL	BDL
Nickel, Total	200	1450	ug/L	<20	<20	<2	BDL	BDL
Selenium, Total	100	235.8	ug/L	<50	<50	<5	BDL	BDL
Silver, Total	7	35.1	ug/L	<4	<4	<0.4	BDL	BDL
Zinc, Total	900	420	ug/L	<100	<100	<10	BDL	BDL
Dissolved Metals								
Antimony, Dissolved	8,000	206	ug/L	<40	<40	<4	BDL	BDL
Arsenic, Dissolved	900	104	ug/L	<10	<10	<1	BDL	BDL
Cadmium, Dissolved	4	10.2	ug/L	<2	<2	<0.2	BDL	BDL
Chromium, Dissolved	300	323	ug/L	<10	<10	<1	BDL	BDL
Copper, Dissolved	100,000	242	ug/L	<10	<10	**2.8**	**2.80**	**2.80**
Iron, Dissolved	NS	5,000	ug/L	<250	<50	**82**	**82**	**82.00**
Lead, Dissolved	10	160	ug/L	<10	<10	<1	BDL	BDL
Mercury, Dissolved	20	0.739	ug/L	<1	<0.2	<0.2	BDL	BDL
Nickel, Dissolved	200	1,450	ug/L	<20	<20	<2	BDL	BDL
Selenium, Dissolved	100	235.8	ug/L	<50	<50	<5	BDL	BDL
Silver, Dissolved	7	35.1	ug/L	<4	<4	<0.4	BDL	BDL
Zinc, Dissolved	900	420	ug/L	<100	<100	**14.1**	**14.10**	**14.10**
Volatile Organics by GC/MS								
Total BTEX	NS	100	ug/L	BDL (1.0)	BDL (1.0)	BDL (1.0)	BDL	BDL
Volatile Organics by GC/MS-SIM								
1,4-Dioxane	6,000	200	ug/L	<50	<50	<50	BDL	BDL
Ethanol by EPA 1671								
Ethanol	NS	Report	ug/L	<20	<20	<20	BDL	BDL

Notes:
1. Samples were collected by Sanborn, Head & Associates, Inc. (Sanborn Head) on the indicated dates and were analyzed by Alpha Analytical Laboratories, Inc. of Westborough, MA and Teklab, Inc. of Collinsville, IL.
2. Average concentrations for each analyte were calculated as an arithmetic average of detected concentrations and half of the detection limits where analytes were not detected.
3. Bolded values indicate detections above the laboratory reporting limits.
4. Abbreviations:
NPDES = National Pollutant Discharge Elimination System
TBEL = Technology based effluent limitation
MCP = Massachusetts Continentcy Plan
RCGW-2 = MCP Reportable Concentration for groundwater category GW-2.
ug/L = micrograms per liter
mg/L = milligrams per liter
"<" indicates the analyte was not detected above the laboratory reporting limit shown
BDL = below detection limit
BDL (X.X) = total value below detection limit of X.X
NS = No Standard
BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

Table 2
Summary of Receiving Water Quality Data
776 Summer Street, South Boston, Massachusetts

LOCATION	MCP	NPDES TBEL	Units	OF-2
SAMPLING DATE	RCGW-2			1/27/2021
Anions by Ion Chromatography				
Chloride	NS	Monitor Only	ug/L	**16,400,000**
General Chemistry				
Chromium, Trivalent	600	323	ug/L	<10
Solids, Total Suspended	NS	30	mg/L	**22,000**
Cyanide, Total	30	178,000	ug/L	<5
Chlorine, Total Residual	NS	200	ug/L	<20
Nitrogen, Ammonia	NS	Monitor Only	ug/L	<75
TPH, SGT-HEM	5,000	5,000	ug/L	<4,000
Phenolics, Total	NS	1,080	ug/L	<30
Chromium, Hexavalent	300	323	ug/L	<10
Salinity	NS	NS	SU	27
Microextractables by GC				
1,2-Dibromoethane	2	0.05	ug/L	<0.01
1,2-Dibromo-3-chloropropane	1,000	0.05	ug/L	<0.01
Polychlorinated Biphenyls by GC				
Total PCBs	5	0.000064	ug/L	BDL
Semivolatile Organics by GC/MS				
Total Phthalates	NS	190	ug/L	BDL
Semivolatile Organics by GC/MS-SIM				
Naphthalene	700	20	ug/L	<0.1
Pentachlorophenol	200	1.0	ug/L	<1
Total Group 1 PAHs	NS	1.0	ug/L	BDL(0.1)
Total Group 2 PAHs	NS	100	ug/L	BDL(0.1)
Total SVOCs	NS	NS	ug/L	BDL(1.0)
Total Metals				
Antimony, Total	8,000	206	ug/L	<40
Arsenic, Total	900	104	ug/L	<10
Cadmium, Total	4	10.2	ug/L	<2
Chromium, Total	300	323	ug/L	<10
Copper, Total	100,000	242	ug/L	<10
Iron, Total	NS	5,000	ug/L	**73**
Lead, Total	10	160	ug/L	<10
Mercury, Total	20	0.739	ug/L	<0.2
Nickel, Total	200	1450	ug/L	<20
Selenium, Total	100	235.8	ug/L	<50
Silver, Total	7	35.1	ug/L	<4
Zinc, Total	900	420	ug/L	<100
Volatile Organics by GC/MS				
Total BTEX	NS	100	ug/L	BDL(1.0)
Volatile Organics by GC/MS-SIM				
1,4-Dioxane	6,000	200	ug/L	<50
Ethanol by EPA 1671				
Ethanol	NS	Report	ug/L	<20

Notes:
1. Samples were collected by Sanborn, Head & Associates, Inc. (Sanborn Head) on the indicated dates and were analyzed by Alpha Analytical Laboratories, Inc. of Westborough, MA and Teklab, Inc. of Collinsville, IL.
2. Average concentrations for each analyte were calculated as an arithmetic average of detected concentrations and half of the detection limits where analytes were not detected.
3. Bolded values indicate detections above the laboratory reporting limits.
4. Abbreviations:
NPDES = National Pollutant Discharge Elimination System
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ug/L = micrograms per liter
mg/L = milligrams per liter
"<" indicates the analyte was not detected above the laboratory reporting limit shown
BDL = below detection limit
BDL (X.X) = total value below detection limit of X.X
NS = No Standard
BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

FIGURES

NOTES:
Base map was taken from the "Office of Geographic and Environmental Information (MassGIS), Commonwealth of Massachusetts Information Technology Division"
7.5 minute USGS Quadrangle Maps: South Boston, Massachusetts, REV: 1987

Drawn By: C.Dias
Designed By: L.Aborn
Reviewed By: P.Malone
Project No: 4867.00
Date: March 2021

SCALE: 1:25,000

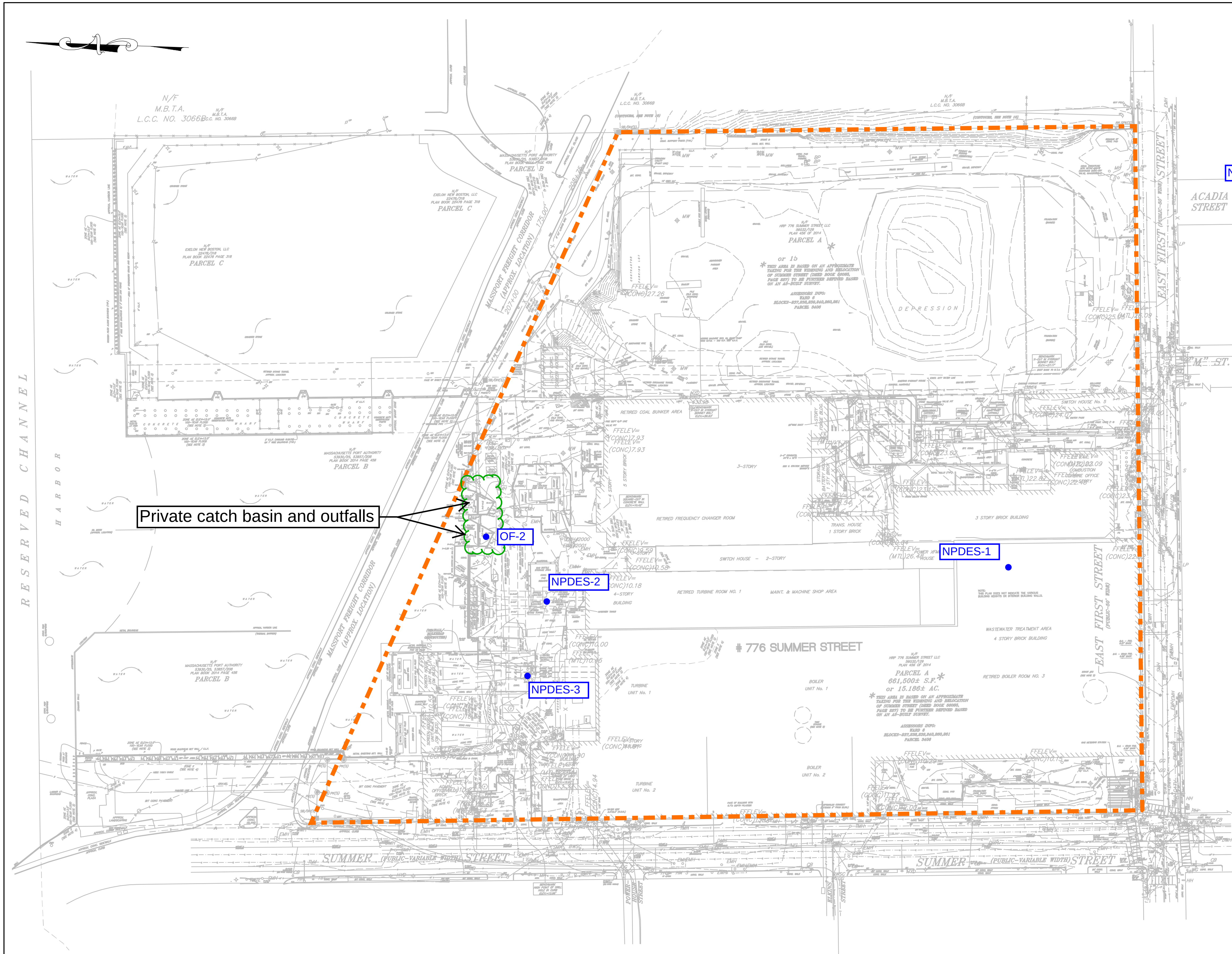
SANBORN HEAD

Figure 1

Locus Plan

NPDES Remediation General Permit

776 Summer Street
Boston, Massachusetts



NOTES:

1. THE BASE MAP WAS DRAWN FROM A PLAN ENTITLED, "ALTA/ACSM LAND TITLE SURVEY", PREPARED BY BEALS+THOMAS (B+T) OF SOUTHBOROUGH, MA, DATED DECEMBER 15, 2014 WITH AN ORIGINAL SCALE OF 1" = 50'.

LEGEND:

APPROXIMATE SITE BOUNDARY

APPROXIMATE LOCATION OF CATCH BASIN AND OUTFALL

NPDES-1 APPROXIMATE LOCATION OF WATER SAMPLE COLLECTED BY SANBORN HEAD ON JANUARY 27, 2021

SANBORN HEAD

GRAPHICAL SCALE 60' 30' 0' 60' 120'

NO.	DATE	DESCRIPTION	BY

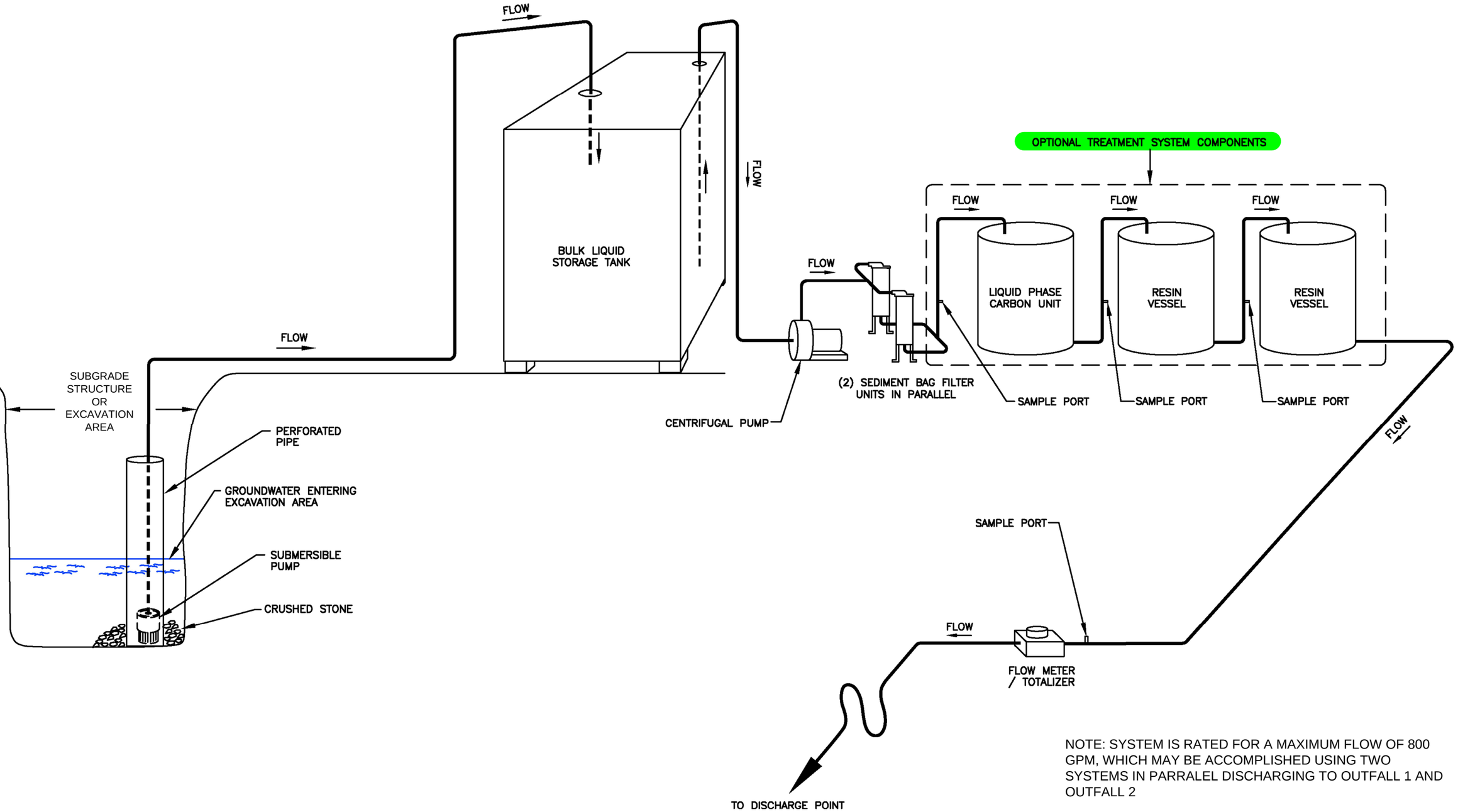
DRAWN BY: C.DIAS/D.DOMBROWSKY
DESIGNED BY: L.ABORN
REVIEWED BY: P.MALONE
PROJECT MGR: P. MALONE
PIC: P.PINTO
DATE: MARCH 2021

776 SUMMER STREET
BOSTON, MASSACHUSETTS

SITE PLAN

PROJECT NUMBER: 4867.00

SHEET NUMBER: 2



NOTE: SYSTEM IS RATED FOR A MAXIMUM FLOW OF 800 GPM, WHICH MAY BE ACCOMPLISHED USING TWO SYSTEMS IN PARRALEL DISCHARGING TO OUTFALL 1 AND OUTFALL 2

SANBORN HEAD

GRAPHICAL SCALE
20' 10' 0' 20' 40'

NO.	DATE	DESCRIPTION	BY

DRAWN BY: C.DIAS
DESIGNED BY: L.ABORN
REVIEWED BY: P. MALONE
PROJECT MGR: P. MALONE
PIC: P. PINTO
DATE: MARCH 2021

NPDES REMEDIATION GENERAL PERMIT
776 SUMMER ST
SOUTH BOSTON, MASSACHUSETTS

PROJECT NUMBER: 4867.00

PROPOSED GROUNDWATER TREATMENT SCHEMATIC

SHEET NUMBER: 3

APPENDIX A

NOTICE OF INTENT FORM

II. Suggested Format for the Remediation General Permit Notice of Intent (NOI)

A. General site information:

<table>
<tr><td rowspan="2">1. Name of site:
776 Summer Street</td><td colspan="3">Site address: 776
Street: Summer street</td></tr>
<tr><td>City: South Boston</td><td>State: MA</td><td>Zip: 02127</td></tr>
<tr><td rowspan="4">2. Site owner
HRP 776 Summer Street, LLC

Owner is (check one): ☐ Federal ☐ State/Tribal ■ Private
☐ Other; if so, specify:</td><td colspan="3">Contact Person: Thomas Kuczynski</td></tr>
<tr><td colspan="2">Telephone: 857-277-0500</td><td>Email: TKuczynski@hilcoglobal.com</td></tr>
<tr><td colspan="3">Mailing address: 99 Summer Street, Suite 1110
Street:</td></tr>
<tr><td>City: Boston</td><td>State: MA</td><td>Zip: 02110</td></tr>
<tr><td rowspan="4">3. Site operator, if different than owner</td><td colspan="3">Contact Person:</td></tr>
<tr><td colspan="2">Telephone:</td><td>Email:</td></tr>
<tr><td colspan="3">Mailing address:
Street:</td></tr>
<tr><td>City:</td><td>State:</td><td>Zip:</td></tr>
<tr><td colspan="2">4. NPDES permit number assigned by EPA:
NA

NPDES permit is (check all that apply: ☐ RGP ☐ DGP ☐ CGP
☐ MSGP ☐ Individual NPDES permit ☐ Other; if so, specify:</td><td colspan="2">5. Other regulatory program(s) that apply to the site (check all that apply):
■ MA Chapter 21e; list RTN(s):
RTNs closed - see attached letter for list.
☐ NH Groundwater Management Permit or Groundwater Release Detection Permit:
☐ CERCLA
☐ UIC Program
☐ POTW Pretreatment
☐ CWA Section 404</td></tr>
</table>

B. Receiving water information:

1. Name of receiving water(s):	Waterbody identification of receiving water(s):	Classification of receiving water(s):
Reserved Channel	MA70-02	SB/CSO

Receiving water is (check any that apply): ☐ Outstanding Resource Water ☐ Ocean Sanctuary ☐ territorial sea ☐ Wild and Scenic River

2. Has the operator attached a location map in accordance with the instructions in B, above? (check one): ■ Yes ☐ No

Are sensitive receptors present near the site? (check one): ☐ Yes ■ No
If yes, specify:

3. Indicate if the receiving water(s) is listed in the State's Integrated List of Waters (i.e., CWA Section 303(d)). Include which designated uses are impaired, and any pollutants indicated. Also, indicate if a final TMDL is available for any of the indicated pollutants. For more information, contact the appropriate State as noted in Part 4.6 of the RGP. Yes, listed in 303(d). Impairments include contaminants in fish and/or shellfish, dissolved oxygen, enterococcus, fecal coliform, and PCBs in fish tissue. No TMDL. Impaired designated uses: fish/shellfish fishing.

4. Indicate the seven day-ten-year low flow (7Q10) of the receiving water determined in accordance with the instructions in Appendix V for sites located in Massachusetts and Appendix VI for sites located in New Hampshire.	NA (saltwater)
5. Indicate the requested dilution factor for the calculation of water quality-based effluent limitations (WQBELs) determined in accordance with the instructions in Appendix V for sites in Massachusetts and Appendix VI for sites in New Hampshire.	1 (saltwater)

6. Has the operator received confirmation from the appropriate State for the 7Q10and dilution factor indicated? (check one): ☐ Yes ■ No
If yes, indicate date confirmation received: Not Applicable

7. Has the operator attached a summary of receiving water sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ■ Yes ☐ No

C. Source water information:

1. Source water(s) is (check any that apply):

■ Contaminated groundwater Has the operator attached a summary of influent sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ■ Yes ☐ No	☐ Contaminated surface water Has the operator attached a summary of influent sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ☐ Yes ☐ No	☐ The receiving water ☐ A surface water other than the receiving water; if so, indicate waterbody:	☐ Potable water; if so, indicate municipality or origin: ■ Other; if so, specify: Water in subgrade structures

2. Source water contaminants: Chloride, TSS, Nitrogen/Ammonia, Naphthalene, Arsenic (Total), Copper (Total & Dissolved), Iron (Total & Dissolved), Lead (Total & Dissolved), Zinc (Dissolved).	
a. For source waters that are contaminated groundwater or contaminated surface water, indicate are any contaminants present that are not included in the RGP? (check one): ☐ Yes ■ No If yes, indicate the contaminant(s) and the maximum concentration present in accordance with the instructions in Appendix VIII.	b. For a source water that is a surface water other than the receiving water, potable water or other, indicate any contaminants present at the maximum concentration in accordance with the instructions in Appendix VIII? (check one): ☐ Yes ☐ No
3. Has the source water been previously chlorinated or otherwise contains residual chlorine? (check one): ☐ Yes ■ No	

D. Discharge information

1.The discharge(s) is a(n) (check any that apply): ☐ Existing discharge ■ New discharge ☐ New source	
Outfall(s): Reserved Channel	Outfall location(s): (Latitude, Longitude) Outfall -1: 42.3403455, -71.0340689 Outfall -2: 42.3403460, -71.0342355
Discharges enter the receiving water(s) via (check any that apply): ☐ Direct discharge to the receiving water ■ Indirect discharge, if so, specify: Effluent will enter private on-site catch basins that discharge into Reserved Channel through on-site outfalls. ■ A private storm sewer system ☐ A municipal storm sewer system If the discharge enters the receiving water via a private or municipal storm sewer system: Has notification been provided to the owner of this system? (check one): ■ Yes ☐ No Has the operator has received permission from the owner to use such system for discharges? (check one): ■ Yes ☐ No, if so, explain, with an estimated timeframe for obtaining permission: Has the operator attached a summary of any additional requirements the owner of this system has specified? (check one): ☐ Yes ■ No	
Provide the expected start and end dates of discharge(s) (month/year): April 2021 to June 2025 Indicate if the discharge is expected to occur over a duration of: ☐ less than 12 months ■ 12 months or more ☐ is an emergency discharge	
Has the operator attached a site plan in accordance with the instructions in D, above? (check one): ■ Yes ☐ No	

<table>
<tr><td>2. Activity Category: (check all that apply)</td><td colspan="2">3. Contamination Type Category: (check all that apply)</td></tr>
<tr><td rowspan="4">☐ I – Petroleum-Related Site Remediation
☐ II – Non-Petroleum-Related Site Remediation
■ III – Contaminated Site Dewatering
☐ IV – Dewatering of Pipelines and Tanks
☐ V – Aquifer Pump Testing
☐ VI – Well Development/Rehabilitation
☐ VII – Collection Structure Dewatering/Remediation
☐ VIII – Dredge-Related Dewatering</td><td colspan="2">a. If Activity Category I or II: (check all that apply)

☐ A. Inorganics
☐ B. Non-Halogenated Volatile Organic Compounds
☐ C. Halogenated Volatile Organic Compounds
☐ D. Non-Halogenated Semi-Volatile Organic Compounds
☐ E. Halogenated Semi-Volatile Organic Compounds
☐ F. Fuels Parameters</td></tr>
<tr><td colspan="2">b. If Activity Category III, IV, V, VI, VII or VIII: (check either G or H)</td></tr>
<tr><td>■ G. Sites with Known Contamination</td><td>☐ H. Sites with Unknown Contamination</td></tr>
<tr><td>c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply)

■ A. Inorganics
☐ B. Non-Halogenated Volatile Organic Compounds
☐ C. Halogenated Volatile Organic Compounds
■ D. Non-Halogenated Semi-Volatile Organic Compounds
☐ E. Halogenated Semi-Volatile Organic Compounds
☐ F. Fuels Parameters</td><td>d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply</td></tr>
</table>

4. Influent and Effluent Characteristics

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
A. Inorganics									
Ammonia		✔	3	4500NH3	75	116	116	Report mg/L	---
Chloride		✔	3	300.0	5,000	18,900,000	10,875,000	Report µg/l	---
Total Residual Chlorine	✔		3	4500CL	20	ND	ND	0.2 mg/L	
Total Suspended Solids		✔	3	2540D	5,000,000	23,000,000	16,500,000	30 mg/L	---
Antimony	✔		3	200.8	40	ND	ND	206 µg/L	
Arsenic		✔	3	200.8	10	10.8	10.8	104 µg/L	
Cadmium	✔		3	200.8	2	ND	ND	10.2 µg/L	
Chromium III	✔		3	107	10	ND	ND	323 µg/L	
Chromium VI	✔		3	7196A	10	ND	ND	323 µg/L	
Copper		✔	3	200.8	10	1.34	1.34	242 µg/L	
Iron		✔	3	200.7	50	345	196.67	5,000 µg/L	
Lead		✔	3	200.8	10	15.17	15.17	160 µg/L	
Mercury	✔		3	245.1	0.2	ND	ND	0.739 µg/L	
Nickel	✔		3	200.8	20	ND	ND	1,450 µg/L	
Selenium	✔		3	200.8	50	ND	ND	235.8 µg/L	
Silver	✔		3	200.8	4	ND	ND	35.1 µg/L	
Zinc	✔		3	200.8	100	ND	ND	420 µg/L	
Cyanide	✔		3	4500CN	5	ND	ND	178 mg/L	
B. Non-Halogenated VOCs									
Total BTEX	✔		3	624.1	1	ND	ND	100 µg/L	---
Benzene	✔		3	624.1	1	ND	ND	5.0 µg/L	---
1,4 Dioxane	✔		3	624.1	50	ND	ND	200 µg/L	---
Acetone	✔		3	624.1	10	ND	ND	7.97 mg/L	---
Phenol	✔		3	624.1	30	ND	ND	1,080 µg/L	

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
C. Halogenated VOCs									
Carbon Tetrachloride	✔		3	624.1	1	ND	ND	4.4 µg/L	
1,2 Dichlorobenzene	✔		3	624.1	5	ND	ND	600 µg/L	---
1,3 Dichlorobenzene	✔		3	624.1	5	ND	ND	320 µg/L	---
1,4 Dichlorobenzene	✔		3	624.1	5	ND	ND	5.0 µg/L	---
Total dichlorobenzene	✔		3	624.1	5	ND	ND	763 µg/L in NH	---
1,1 Dichloroethane	✔		3	624.1	1.5	ND	ND	70 µg/L	---
1,2 Dichloroethane	✔		3	624.1	1.5	ND	ND	5.0 µg/L	---
1,1 Dichloroethylene	✔		3	624.1	1	ND	ND	3.2 µg/L	---
Ethylene Dibromide	✔		3	504.1	0.010	ND	ND	0.05 µg/L	---
Methylene Chloride	✔		3	624.1	1	ND	ND	4.6 µg/L	---
1,1,1 Trichloroethane	✔		3	624.1	2	ND	ND	200 µg/L	---
1,1,2 Trichloroethane	✔		3	624.1	1.5	ND	ND	5.0 µg/L	---
Trichloroethylene	✔		3	624.1	1	ND	ND	5.0 µg/L	---
Tetrachloroethylene	✔		3	624.1	1	ND	ND	5.0 µg/L	
cis-1,2 Dichloroethylene	✔		3	624.1	1	ND	ND	70 µg/L	---
Vinyl Chloride	✔		3	624.1	1	ND	ND	2.0 µg/L	---
D. Non-Halogenated SVOCs									
Total Phthalates	✔		3	625.1	5.0	ND	ND	190 µg/L	--
Diethylhexyl phthalate	✔		3	625.1	5.0	ND	ND	101 µg/L	
Total Group I PAHs	✔		3	625.1	0.10	ND	ND	1.0 µg/L	---
Benzo(a)anthracene	✔		3	625.1	0.10	ND	ND	As Total PAHs	
Benzo(a)pyrene	✔		3	625.1	0.10	ND	ND		
Benzo(b)fluoranthene	✔		3	625.1	0.10	ND	ND		
Benzo(k)fluoranthene	✔		3	625.1	0.10	ND	ND		
Chrysene	✔		3	625.1	0.10	ND	ND		
Dibenzo(a,h)anthracene	✔		3	625.1	0.10	ND	ND		
Indeno(1,2,3-cd)pyrene	✔		3	625.1	0.10	ND	ND		

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
Total Group II PAHs	✔		3	625.1	0.10	ND	ND	100 µg/L	---
Naphthalene		✔	3	625.1	0.10	0.104	0.104	20 µg/L	---
E. Halogenated SVOCs									
Total PCBs	✔		3	608.3	0.250	ND	ND	0.000064 µg/L	---
Pentachlorophenol	✔		3	625.1	1.0	ND	ND	1.0 µg/L	---
F. Fuels Parameters									
Total Petroleum Hydrocarbons	✔		3	1664A	4,000	ND	ND	5.0 mg/L	---
Ethanol	✔		3	1671A	20	ND	ND	Report mg/L	---
Methyl-tert-Butyl Ether	✔		3	624.1	10	ND	ND	70 µg/L	
tert-Butyl Alcohol	✔		3	624.1	100	ND	ND	120 µg/L in MA 40 µg/L in NH	---
tert-Amyl Methyl Ether	✔		3	624.1	20	ND	ND	90 µg/L in MA 140 µg/L in NH	---
Other (i.e., pH, temperature, hardness, salinity, LC_{50}, additional pollutants present); if so, specify:									

E. Treatment system information

1. Indicate the type(s) of treatment that will be applied to effluent prior to discharge: (check all that apply)

☐ Adsorption/Absorption ☐ Advanced Oxidation Processes ☐ Air Stripping ■ Granulated Activated Carbon ("GAC")/Liquid Phase Carbon Adsorption

■ Ion Exchange ☐ Precipitation/Coagulation/Flocculation ■ Separation/Filtration ■ Other; if so, specify:

Primary treatment will consist of settling and filtration. Treatment will be supplemented as needed to meet effluent discharge requirements using the methods indicated above.

2. Provide a written description of all treatment system(s) or processes that will be applied to the effluent prior to discharge.

Water encountered during construction activities will be pumped into a treatment system prior to discharge into existing catch basins. The first element of the treatment system will be a fractionalization tank where solids will settle out. The effluent will then pass through the following as necessary: a bag filter, a granular activated carbon vessel, and two cation resin vessels plumbed in series. The effluent will be discharged to the existing catch basins and ultimately to Outfalls 1 and 2.

Identify each major treatment component (check any that apply):

■ Fractionation tanks☐ Equalization tank ☐ Oil/water separator ☐ Mechanical filter ☐ Media filter

☐ Chemical feed tank ☐ Air stripping unit ■ Bag filter ■ Other; if so, specify: Cation resin vessel and/or ion exchange if needed

Indicate if either of the following will occur (check any that apply):

☐ Chlorination ☐ De-chlorination

3. Provide the **design flow capacity** in gallons per minute (gpm) of the most limiting component. Indicate the most limiting component: Frac tank Is use of a flow meter feasible? (check one): ■ Yes ☐ No, if so, provide justification:	800
Provide the proposed maximum effluent flow in gpm.	800
Provide the average effluent flow in gpm.	400
If Activity Category IV applies, indicate the estimated total volume of water that will be discharged:	NA

4. Has the operator attached a schematic of flow in accordance with the instructions in E, above? (check one): ■ Yes ☐ No

F. Chemical and additive information

1. Indicate the type(s) of chemical or additive that will be applied to effluent prior to discharge or that may otherwise be present in the discharge(s): (check all that apply)

☐ Algaecides/biocides ☐ Antifoams ☐ Coagulants ☐ Corrosion/scale inhibitors ☐ Disinfectants ☐ Flocculants ☐ Neutralizing agents ☐ Oxidants ☐ Oxygen ☐ scavengers ☐ pH conditioners ☐ Bioremedial agents, including microbes ☐ Chlorine or chemicals containing chlorine ☐ Other; if so, specify:
None anticipated

2. Provide the following information for each chemical/additive, using attachments, if necessary:

a. Product name, chemical formula, and manufacturer of the chemical/additive;
b. Purpose or use of the chemical/additive or remedial agent;
c. Material Safety Data Sheet (MSDS) and Chemical Abstracts Service (CAS) Registry number for each chemical/additive;
d. The frequency (hourly, daily, etc.), duration (hours, days), quantity (maximum and average), and method of application for the chemical/additive;
e. Any material compatibility risks for storage and/or use including the control measures used to minimize such risks; and
f. If available, the vendor's reported aquatic toxicity (NOAEL and/or LC50 in percent for aquatic organism(s)).

3. Has the operator attached an explanation which demonstrates that the addition of such chemicals/additives may be authorized under this general permit in accordance with the instructions in F, above? (check one): ☐ Yes ☐ No; if no, has the operator attached data that demonstrates each of the 126 priority pollutants in CWA Section 307(a) and 40 CFR Part 423.15(j)(1) are non-detect in discharges with the addition of the proposed chemical/additive? (check one): ☐ Yes ☐ No

G. Endangered Species Act eligibility determination

1. Indicate under which criterion the discharge(s) is eligible for coverage under this general permit:

■ **FWS Criterion A**: No endangered or threatened species or critical habitat are in proximity to the discharges or related activities or come in contact with the "action area".

☐ **FWS Criterion B**: Formal or informal consultation with the FWS under section 7 of the ESA resulted in either a no jeopardy opinion (formal consultation) or a written concurrence by FWS on a finding that the discharges and related activities are "not likely to adversely affect" listed species or critical habitat (informal consultation). Has the operator completed consultation with FWS? (check one): ☐ Yes ☐ No; if no, is consultation underway? (check one): ☐ Yes ☐ No

☐ **FWS Criterion C**: Using the best scientific and commercial data available, the effect of the discharges and related activities on listed species and critical habitat have been evaluated. Based on those evaluations, a determination is made by EPA, or by the operator and affirmed by EPA, that the discharges and related activities will have "no effect" on any federally threatened or endangered listed species or designated critical habitat under the jurisdiction of the FWS. This determination was made by: (check one) ☐ the operator ☐ EPA ☐ Other; if so, specify:

■ **NMFS Criterion**: A determination made by EPA is affirmed by the operator that the discharges and related activities will have "no effect" or are "not likely to adversely affect" any federally threatened or endangered listed species or critical habitat under the jurisdiction of NMFS and will not result in any take of listed species. Has the operator previously completed consultation with NMFS? (check one): ☐ Yes ■ No

2. Has the operator attached supporting documentation of ESA eligibility in accordance with the instructions in Appendix I, and G, above? (check one): ■ Yes ☐ No

Does the supporting documentation include any written concurrence or finding provided by the Services? (check one): ■ Yes ☐ No; if yes, attach.

H. National Historic Preservation Act eligibility determination

1. Indicate under which criterion the discharge(s) is eligible for coverage under this general permit:

☐ **Criterion A**: No historic properties are present. The discharges and discharge-related activities (e.g., BMPs) do not have the potential to cause effects on historic properties.

■ **Criterion B**: Historic properties are present. Discharges and discharge related activities do not have the potential to cause effects on historic properties.

☐ **Criterion C**: Historic properties are present. The discharges and discharge-related activities have the potential to have an effect or will have an adverse effect on historic properties.

2. Has the operator attached supporting documentation of NHPA eligibility in accordance with the instructions in H, above? (check one): ■ Yes ☐ No

Does the supporting documentation include any written agreement with the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (TPHO), or other tribal representative that outlines measures the operator will carry out to mitigate or prevent any adverse effects on historic properties? (check one): ☐ Yes ■ No

I. Supplemental information

Describe any supplemental information being provided with the NOI. Include attachments if required or otherwise necessary.

Appendix B includes the Massachusetts Category 5 Waters listing for the Reserved Channel.
Appendix C includes the analytical laboratory data collected for the influent and effluent water.
Appendix D includes the Municipal Correspondence.
Appendix E includes correspondence from the National Oceanic and Atmospheric Administration and the US Fish and Wildlife Service.
Appendix F includes a list of Historic Places in Boston.

Has the operator attached data, including any laboratory case narrative and chain of custody used to support the application? (check one): ■ Yes ☐ No

Has the operator attached the certification requirement for the Best Management Practices Plan (BMPP)? (check one): ■ Yes ☐ No

J. Certification requirement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

BMPP certification statement: A BMPP meeting the requirements of this general permit will be developed and implemented upon initiation of discharge.	
Notification provided to the appropriate State, including a copy of this NOI, if required.	Check one: Yes ■ No ☐
Notification provided to the municipality in which the discharge is located, including a copy of this NOI, if requested.	Check one: Yes ■ No ☐
Notification provided to the owner of a private or municipal storm sewer system, if such system is used for site discharges, including a copy of this NOI, if requested.	Check one: Yes ■ No ☐ NA ☐
Permission obtained from the owner of a private or municipal storm sewer system, if such system is used for site discharges. If yes, attach additional conditions. If no, attach explanation and timeframe for obtaining permission.	Check one: Yes ■ No ☐ NA ☐
Notification provided to the owner/operator of the area associated with activities covered by an additional discharge permit(s). Additional discharge permit is (check one): ☐ RGP ☐ DGP ☐ CGP ☐ MSGP ☐ Individual NPDES permit ☐ Other; if so, specify:	Check one: Yes ☐ No ☐ NA ■
Signature: HRP 776 Summer Street, LLC	Date: 3/23/2021
Print Name and Title: Anne R. Garr, Assistant Secretary	

APPENDIX B

MASSACHUSETTS CATEGORY 5 WATERS AND SITE ASSESSMENT MAP

Category 5 waters listed alphabetically by major watershed
The 303(d) List – "Waters requiring a TMDL"

Water Body	Segment ID	Description	Size	Units	Impairment	EPA TMDL No.
West River	MA51-12	From Upton WWTP discharge (NPDES: MA0100196), Upton to mouth at confluence with the Blackstone River, Uxbridge (through former segments Harrington Pool MA51197, and West River Pond MA51177).	9.40	Miles	(Non-Native Aquatic Plants*)	
					Cadmium	
					Chloride	
					Copper	
					Lead	
					Nutrient/Eutrophication Biological Indicators	
					pH, Low	
Woodbury Pond	MA51185	Sutton.	5.00	Acres	(Non-Native Aquatic Plants*)	
					Aquatic Plants (Macrophytes)	
Woolshop Pond	MA51186	Millbury.	5.00	Acres	(Non-Native Aquatic Plants*)	
					Aquatic Plants (Macrophytes)	
					Turbidity	
Boston Harbor (Proper)						
Boston Harbor	MA70-01	The area defined by a line from the southerly tip of Deer Island to Boston Lighthouse on Little Brewster Island, then south to Point Allerton; across Hull and West guts; across the mouths of Quincy and Dorchester bays, Boston Inner Harbor and Winthrop Bay (including President Roads and Nantasket Roads).	18.60	Square Miles	Cause Unknown (Contaminants in Fish and/or Shellfish)	
					Fecal Coliform	
					PCBs In Fish Tissue	
Boston Inner Harbor	MA70-02	From the Mystic and Chelsea rivers, Chelsea/Boston, to the line between Governors Island and Fort Independence, Boston (East Boston) (including Fort Point, Reserved and Little Mystic channels).	2.56	Square Miles	Cause Unknown (Contaminants in Fish and/or Shellfish)	
					Dissolved Oxygen	
					Enterococcus	
					Fecal Coliform	
					PCBs In Fish Tissue	
Dorchester Bay	MA70-03	From the mouth of the Neponset River, Boston/Quincy to the line between Head Island and the north side of Thompson Island and the line between the south point of Thompson Island, Boston and Chapel Rocks, Quincy.	3.46	Square Miles	Cause Unknown (Contaminants in Fish and/or Shellfish)	
					Enterococcus	
					Fecal Coliform	
					PCBs In Fish Tissue	
Hingham Bay	MA70-06	The area north of the mouth of the Weymouth Fore River extending on the west along the line between Nut Island and the south point of West Head, and on the east side along a line from Prince Head just east of Pig Rock to the mouth of the Weymouth Fore River (midway between Lower Neck and Manot Beach), Quincy.	0.96	Square Miles	Cause Unknown (Contaminants in Fish and/or Shellfish)	
					Fecal Coliform	
					PCBs In Fish Tissue	

MassDEP - Bureau of Waste Site Cleanup

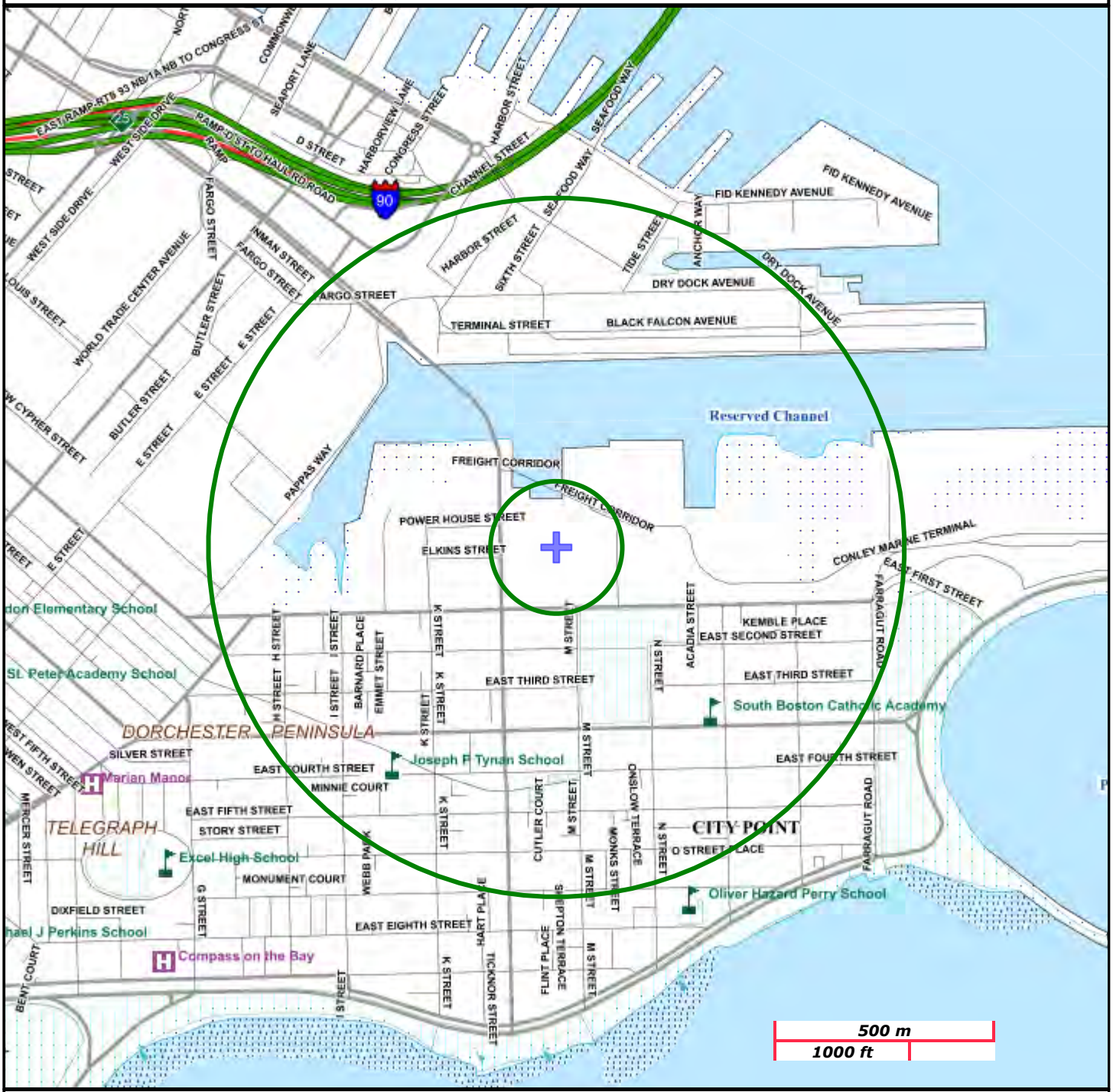
Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

Site Information:
776 SUMMER STREET
776 SUMMER STREET BOSTON, MA

NAD83 UTM Meters:
4689467mN , 332446mE (Zone: 19)
February 8, 2021

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: https://www.mass.gov/orgs/massgis-bureau-of-geographic-information.

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail

Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct

Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam

Aquifers: Medium Yield, High Yield, EPA Sole Source

Non Potential Drinking Water Source Area: Medium, High (Yield)

PWS Protection Areas: Zone II, IWPA, Zone A

Hydrography: Open Water, PWS Reservoir, Tidal Flat

Wetlands: Freshwater, Saltwater, Cranberry Bog

FEMA 100yr Floodplain; Protected Open Space; ACEC

Est. Rare Wetland Wildlife Hab; Vernal Pool: Cert., Potential

Solid Waste Landfill; PWS: Com.GW,SW, Emerg., Non-Com.

APPENDIX C

ANALYTICAL DATA REPORTS

ANALYTICAL REPORT

Lab Number:	L2104295
Client:	Sanborn, Head & Associates, Inc. 1 Technology Park Drive Westford, MA 01886
ATTN:	Patrick Malone
Phone:	(978) 392-0900
Project Name:	776 SUMMER ST
Project Number:	4867.00
Report Date:	02/02/21

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: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2104295-01	NPDES-3	WATER	776 SUMMER ST	01/27/21 09:45	01/27/21
L2104295-02	NPDES-1	WATER	776 SUMMER ST	01/27/21 14:10	01/27/21
L2104295-03	OF-2	WATER	776 SUMMER ST	01/27/21 14:45	01/27/21

Project Name:	776 SUMMER ST	**Lab Number:**	L2104295
Project Number:	4867.00	**Report Date:**	02/02/21

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: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

Case Narrative (continued)

Report Submission

February 02, 2021: This final report includes the results of all requested analyses.

February 02, 2021: This is a preliminary report.

Sample Receipt

The analyses performed were specified by the client.

L2104295-01: The collection date and time on the chain of custody was 27-JAN-21 09:55; however, the collection date/time on the container label was 27-JAN-21 09:45. At the client's request, the collection date/time is reported as 27-JAN-21 09:45.

Microextractables

The WG1459641-2 LCS recovery for 1,2-dibromoethane (124%), associated with L2104295-01 through -03, is outside Alpha's acceptance criteria, but within the acceptance criteria specified in the method.

Total Metals

L2104295-02 and -03: The sample has elevated detection limits for all elements, with the exception of iron and mercury, due to the dilution required by the high concentrations of non-target elements.

Dissolved Metals

L2104295-02: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the high concentrations of non-target elements.

L2104295-02: The sample has an elevated detection limit for mercury due to the prep dilution required by the limited sample volume available for analysis.

The WG1459636-3 MS recovery for selenium (43%), performed on L2104295-02, recovered outside the 70-130% acceptance criteria. The result for this analyte is considered suspect due to either the heterogeneous nature of the sample or matrix interference.

The WG1460007-4 Laboratory Duplicate RPD for zinc (28%), performed on L2104295-01, is above the

Project Name:	776 SUMMER ST	**Lab Number:**	L2104295
Project Number:	4867.00	**Report Date:**	02/02/21

Case Narrative (continued)

acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

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: Jennifer L Clements

Title: Technical Director/Representative Date: 02/02/21

ORGANICS

VOLATILES

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-01
Client ID: NPDES-3
Sample Location: 776 SUMMER ST
Date Collected: 01/27/21 09:45
Date Received: 01/27/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 01/30/21 03:08
Analyst: TAB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	1.0	--	1
1,1-Dichloroethane	ND		ug/l	1.5	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.5	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.5	--	1
1,1,1-Trichloroethane	ND		ug/l	2.0	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	5.0	--	1
1,3-Dichlorobenzene	ND		ug/l	5.0	--	1
1,4-Dichlorobenzene	ND		ug/l	5.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
Acetone	ND		ug/l	10	--	1
Methyl tert butyl ether	ND		ug/l	10	--	1
Tert-Butyl Alcohol	ND		ug/l	100	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	20	--	1

Project Name: 776 SUMMER ST
Lab Number: L2104295
Project Number: 4867.00
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-01
Client ID: NPDES-3
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 09:45
Date Received: 01/27/21
Field Prep: Refer to COC

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	99		60-140
Fluorobenzene	88		60-140
4-Bromofluorobenzene	99		60-140

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-01
Client ID: NPDES-3
Sample Location: 776 SUMMER ST
Date Collected: 01/27/21 09:45
Date Received: 01/27/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1-SIM
Analytical Date: 01/30/21 03:08
Analyst: TAB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Fluorobenzene	93		60-140
4-Bromofluorobenzene	107		60-140

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-01
Client ID: NPDES-3
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 09:45
Date Received: 01/27/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 01/28/21 15:21
Analyst: AMM

Extraction Method: EPA 504.1
Extraction Date: 01/28/21 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Microextractables by GC - Westborough Lab							
1,2-Dibromoethane	ND		ug/l	0.010	--	1	A
1,2-Dibromo-3-chloropropane	ND		ug/l	0.010	--	1	A

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-02
Client ID: NPDES-1
Sample Location: 776 SUMMER ST
Date Collected: 01/27/21 14:10
Date Received: 01/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 01/30/21 03:46
Analyst: TAB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	1.0	--	1
1,1-Dichloroethane	ND		ug/l	1.5	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.5	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.5	--	1
1,1,1-Trichloroethane	ND		ug/l	2.0	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	5.0	--	1
1,3-Dichlorobenzene	ND		ug/l	5.0	--	1
1,4-Dichlorobenzene	ND		ug/l	5.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
Acetone	ND		ug/l	10	--	1
Methyl tert butyl ether	ND		ug/l	10	--	1
Tert-Butyl Alcohol	ND		ug/l	100	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	20	--	1

Project Name: 776 SUMMER ST
Lab Number: L2104295
Project Number: 4867.00
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-02
Client ID: NPDES-1
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 14:10
Date Received: 01/27/21
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	98		60-140
Fluorobenzene	88		60-140
4-Bromofluorobenzene	94		60-140

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-02
Client ID: NPDES-1
Sample Location: 776 SUMMER ST
Date Collected: 01/27/21 14:10
Date Received: 01/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1-SIM
Analytical Date: 01/30/21 03:46
Analyst: TAB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Fluorobenzene	93		60-140
4-Bromofluorobenzene	107		60-140

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-02
Client ID: NPDES-1
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 14:10
Date Received: 01/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 01/28/21 15:26
Analyst: AMM

Extraction Method: EPA 504.1
Extraction Date: 01/28/21 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Microextractables by GC - Westborough Lab							
1,2-Dibromoethane	ND		ug/l	0.010	--	1	A
1,2-Dibromo-3-chloropropane	ND		ug/l	0.010	--	1	A

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-03
Client ID: OF-2
Sample Location: 776 SUMMER ST
Date Collected: 01/27/21 14:45
Date Received: 01/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 01/30/21 04:23
Analyst: TAB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	1.0	--	1
1,1-Dichloroethane	ND		ug/l	1.5	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.5	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.5	--	1
1,1,1-Trichloroethane	ND		ug/l	2.0	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	5.0	--	1
1,3-Dichlorobenzene	ND		ug/l	5.0	--	1
1,4-Dichlorobenzene	ND		ug/l	5.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
Acetone	ND		ug/l	10	--	1
Methyl tert butyl ether	ND		ug/l	10	--	1
Tert-Butyl Alcohol	ND		ug/l	100	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	20	--	1

Project Name: 776 SUMMER ST
Lab Number: L2104295
Project Number: 4867.00
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-03
Client ID: OF-2
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 14:45
Date Received: 01/27/21
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	114		60-140
Fluorobenzene	86		60-140
4-Bromofluorobenzene	93		60-140

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-03
Client ID: OF-2
Sample Location: 776 SUMMER ST
Date Collected: 01/27/21 14:45
Date Received: 01/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1-SIM
Analytical Date: 01/30/21 04:23
Analyst: TAB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Fluorobenzene	92		60-140
4-Bromofluorobenzene	104		60-140

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-03
Client ID: OF-2
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 14:45
Date Received: 01/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 01/28/21 15:30
Analyst: AMM

Extraction Method: EPA 504.1
Extraction Date: 01/28/21 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Microextractables by GC - Westborough Lab							
1,2-Dibromoethane	ND		ug/l	0.010	--	1	A
1,2-Dibromo-3-chloropropane	ND		ug/l	0.010	--	1	A

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 14,504.1
Analytical Date: 01/28/21 14:46
Analyst: AMM

Extraction Method: EPA 504.1
Extraction Date: 01/28/21 13:58

Parameter	Result	Qualifier	Units	RL	MDL	
Microextractables by GC - Westborough Lab for sample(s): 01-03 Batch: WG1459641-1						
1,2-Dibromoethane	ND		ug/l	0.010	--	A
1,2-Dibromo-3-chloropropane	ND		ug/l	0.010	--	A

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 01/30/21 01:54
Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1460073-10					
Methylene chloride	ND		ug/l	1.0	--
1,1-Dichloroethane	ND		ug/l	1.5	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.5	--
Tetrachloroethene	ND		ug/l	1.0	--
1,2-Dichloroethane	ND		ug/l	1.5	--
1,1,1-Trichloroethane	ND		ug/l	2.0	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Vinyl chloride	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	5.0	--
1,3-Dichlorobenzene	ND		ug/l	5.0	--
1,4-Dichlorobenzene	ND		ug/l	5.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
Acetone	ND		ug/l	10	--
Methyl tert butyl ether	ND		ug/l	10	--
Tert-Butyl Alcohol	ND		ug/l	100	--
Tertiary-Amyl Methyl Ether	ND		ug/l	20	--

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 01/30/21 01:54
Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1460073-10					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	99		60-140
Fluorobenzene	73		60-140
4-Bromofluorobenzene	98		60-140

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1-SIM
Analytical Date: 01/30/21 01:54
Analyst: TAB

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1460667-4					
1,4-Dioxane	ND		ug/l	50	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Fluorobenzene	79		60-140
4-Bromofluorobenzene	106		60-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER ST

Project Number: 4867.00

Lab Number: L2104295

Report Date: 02/02/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Microextractables by GC - Westborough Lab	Associated sample(s): 01-03 Batch: WG1459641-2								
1,2-Dibromoethane	**124**	Q	-		80-120	-			A
1,2-Dibromo-3-chloropropane	108		-		80-120	-			A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1460073-9								
Methylene chloride	115		-		60-140	-		28
1,1-Dichloroethane	120		-		50-150	-		49
Carbon tetrachloride	120		-		70-130	-		41
1,1,2-Trichloroethane	110		-		70-130	-		45
Tetrachloroethene	125		-		70-130	-		39
1,2-Dichloroethane	100		-		70-130	-		49
1,1,1-Trichloroethane	110		-		70-130	-		36
Benzene	100		-		65-135	-		61
Toluene	115		-		70-130	-		41
Ethylbenzene	115		-		60-140	-		63
Vinyl chloride	75		-		5-195	-		66
1,1-Dichloroethene	100		-		50-150	-		32
cis-1,2-Dichloroethene	125		-		60-140	-		30
Trichloroethene	90		-		65-135	-		48
1,2-Dichlorobenzene	100		-		65-135	-		57
1,3-Dichlorobenzene	95		-		70-130	-		43
1,4-Dichlorobenzene	100		-		65-135	-		57
p/m-Xylene	112		-		60-140	-		30
o-xylene	105		-		60-140	-		30
Acetone	94		-		40-160	-		30
Methyl tert butyl ether	95		-		60-140	-		30
Tert-Butyl Alcohol	120		-		60-140	-		30
Tertiary-Amyl Methyl Ether	80		-		60-140	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1460073-9								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	116				60-140
Fluorobenzene	89				60-140
4-Bromofluorobenzene	97				60-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1460667-3								
1,4-Dioxane	99		-		60-140	-		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Fluorobenzene	93				60-140
4-Bromofluorobenzene	105				60-140

Matrix Spike Analysis

Batch Quality Control

Project Name: 776 SUMMER ST

Project Number: 4867.00

Lab Number: L2104295

Report Date: 02/02/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*	*Column*
Microextractables by GC - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1459641-3 QC Sample: L2103953-01 Client ID: MS Sample													
1,2-Dibromoethane	ND	0.25	0.277	111		-	-		80-120	-		20	A
1,2-Dibromo-3-chloropropane	ND	0.25	0.265	106		-	-		80-120	-		20	A
1,2,3-Trichloropropane	ND	0.25	0.248	99		-	-		80-120	-		20	A

SEMIVOLATILES

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-01
Client ID: NPDES-3
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 09:45
Date Received: 01/27/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 129,625.1
Analytical Date: 01/30/21 09:08
Analyst: SZ

Extraction Method: EPA 625.1
Extraction Date: 01/28/21 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-ethylhexyl)phthalate	ND		ug/l	2.20	--	1
Butyl benzyl phthalate	ND		ug/l	5.00	--	1
Di-n-butylphthalate	ND		ug/l	5.00	--	1
Di-n-octylphthalate	ND		ug/l	5.00	--	1
Diethyl phthalate	ND		ug/l	5.00	--	1
Dimethyl phthalate	ND		ug/l	5.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	84		42-122
2-Fluorobiphenyl	82		46-121
4-Terphenyl-d14	83		47-138

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-01
Client ID: NPDES-3
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 09:45
Date Received: 01/27/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 129,625.1-SIM
Analytical Date: 01/30/21 12:50
Analyst: JJW

Extraction Method: EPA 625.1
Extraction Date: 01/28/21 15:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.100	--	1
Fluoranthene	ND		ug/l	0.100	--	1
Naphthalene	ND		ug/l	0.100	--	1
Benzo(a)anthracene	ND		ug/l	0.100	--	1
Benzo(a)pyrene	ND		ug/l	0.100	--	1
Benzo(b)fluoranthene	ND		ug/l	0.100	--	1
Benzo(k)fluoranthene	ND		ug/l	0.100	--	1
Chrysene	ND		ug/l	0.100	--	1
Acenaphthylene	ND		ug/l	0.100	--	1
Anthracene	ND		ug/l	0.100	--	1
Benzo(ghi)perylene	ND		ug/l	0.100	--	1
Fluorene	ND		ug/l	0.100	--	1
Phenanthrene	ND		ug/l	0.100	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.100	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.100	--	1
Pyrene	ND		ug/l	0.100	--	1
Pentachlorophenol	ND		ug/l	1.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		25-87
Phenol-d6	33		16-65
Nitrobenzene-d5	84		42-122
2-Fluorobiphenyl	83		46-121
2,4,6-Tribromophenol	103		45-128
4-Terphenyl-d14	99		47-138

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-02
Client ID: NPDES-1
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 14:10
Date Received: 01/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 129,625.1
Analytical Date: 01/30/21 09:32
Analyst: SZ

Extraction Method: EPA 625.1
Extraction Date: 01/28/21 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-ethylhexyl)phthalate	ND		ug/l	2.20	--	1
Butyl benzyl phthalate	ND		ug/l	5.00	--	1
Di-n-butylphthalate	ND		ug/l	5.00	--	1
Di-n-octylphthalate	ND		ug/l	5.00	--	1
Diethyl phthalate	ND		ug/l	5.00	--	1
Dimethyl phthalate	ND		ug/l	5.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	69		42-122
2-Fluorobiphenyl	68		46-121
4-Terphenyl-d14	74		47-138

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-02
Client ID: NPDES-1
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 14:10
Date Received: 01/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 129,625.1-SIM
Analytical Date: 01/30/21 13:06
Analyst: JJW

Extraction Method: EPA 625.1
Extraction Date: 01/28/21 15:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.100	--	1
Fluoranthene	ND		ug/l	0.100	--	1
Naphthalene	0.104		ug/l	0.100	--	1
Benzo(a)anthracene	ND		ug/l	0.100	--	1
Benzo(a)pyrene	ND		ug/l	0.100	--	1
Benzo(b)fluoranthene	ND		ug/l	0.100	--	1
Benzo(k)fluoranthene	ND		ug/l	0.100	--	1
Chrysene	ND		ug/l	0.100	--	1
Acenaphthylene	ND		ug/l	0.100	--	1
Anthracene	ND		ug/l	0.100	--	1
Benzo(ghi)perylene	ND		ug/l	0.100	--	1
Fluorene	ND		ug/l	0.100	--	1
Phenanthrene	ND		ug/l	0.100	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.100	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.100	--	1
Pyrene	ND		ug/l	0.100	--	1
Pentachlorophenol	ND		ug/l	1.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		25-87
Phenol-d6	37		16-65
Nitrobenzene-d5	70		42-122
2-Fluorobiphenyl	71		46-121
2,4,6-Tribromophenol	90		45-128
4-Terphenyl-d14	87		47-138

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-03
Client ID: OF-2
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 14:45
Date Received: 01/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 129,625.1
Analytical Date: 01/30/21 09:55
Analyst: SZ

Extraction Method: EPA 625.1
Extraction Date: 01/28/21 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-ethylhexyl)phthalate	ND		ug/l	2.20	--	1
Butyl benzyl phthalate	ND		ug/l	5.00	--	1
Di-n-butylphthalate	ND		ug/l	5.00	--	1
Di-n-octylphthalate	ND		ug/l	5.00	--	1
Diethyl phthalate	ND		ug/l	5.00	--	1
Dimethyl phthalate	ND		ug/l	5.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	60		42-122
2-Fluorobiphenyl	60		46-121
4-Terphenyl-d14	71		47-138

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-03
Client ID: OF-2
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 14:45
Date Received: 01/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 129,625.1-SIM
Analytical Date: 01/30/21 13:23
Analyst: JJW

Extraction Method: EPA 625.1
Extraction Date: 01/28/21 15:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.100	--	1
Fluoranthene	ND		ug/l	0.100	--	1
Naphthalene	ND		ug/l	0.100	--	1
Benzo(a)anthracene	ND		ug/l	0.100	--	1
Benzo(a)pyrene	ND		ug/l	0.100	--	1
Benzo(b)fluoranthene	ND		ug/l	0.100	--	1
Benzo(k)fluoranthene	ND		ug/l	0.100	--	1
Chrysene	ND		ug/l	0.100	--	1
Acenaphthylene	ND		ug/l	0.100	--	1
Anthracene	ND		ug/l	0.100	--	1
Benzo(ghi)perylene	ND		ug/l	0.100	--	1
Fluorene	ND		ug/l	0.100	--	1
Phenanthrene	ND		ug/l	0.100	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.100	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.100	--	1
Pyrene	ND		ug/l	0.100	--	1
Pentachlorophenol	ND		ug/l	1.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		25-87
Phenol-d6	34		16-65
Nitrobenzene-d5	60		42-122
2-Fluorobiphenyl	61		46-121
2,4,6-Tribromophenol	91		45-128
4-Terphenyl-d14	82		47-138

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1
Analytical Date: 01/28/21 16:41
Analyst: SZ

Extraction Method: EPA 625.1
Extraction Date: 01/28/21 04:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1459475-1					
Bis(2-ethylhexyl)phthalate	ND		ug/l	2.20	--
Butyl benzyl phthalate	ND		ug/l	5.00	--
Di-n-butylphthalate	ND		ug/l	5.00	--
Di-n-octylphthalate	ND		ug/l	5.00	--
Diethyl phthalate	ND		ug/l	5.00	--
Dimethyl phthalate	ND		ug/l	5.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	81		42-122
2-Fluorobiphenyl	77		46-121
4-Terphenyl-d14	76		47-138

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1-SIM
Analytical Date: 01/29/21 18:15
Analyst: DV

Extraction Method: EPA 625.1
Extraction Date: 01/28/21 07:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1459544-1					
Acenaphthene	ND		ug/l	0.100	--
Fluoranthene	ND		ug/l	0.100	--
Naphthalene	ND		ug/l	0.100	--
Benzo(a)anthracene	ND		ug/l	0.100	--
Benzo(a)pyrene	ND		ug/l	0.100	--
Benzo(b)fluoranthene	ND		ug/l	0.100	--
Benzo(k)fluoranthene	ND		ug/l	0.100	--
Chrysene	ND		ug/l	0.100	--
Acenaphthylene	ND		ug/l	0.100	--
Anthracene	ND		ug/l	0.100	--
Benzo(ghi)perylene	ND		ug/l	0.100	--
Fluorene	ND		ug/l	0.100	--
Phenanthrene	ND		ug/l	0.100	--
Dibenzo(a,h)anthracene	ND		ug/l	0.100	--
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.100	--
Pyrene	ND		ug/l	0.100	--
Pentachlorophenol	ND		ug/l	1.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		25-87
Phenol-d6	29		16-65
Nitrobenzene-d5	64		42-122
2-Fluorobiphenyl	69		46-121
2,4,6-Tribromophenol	90		45-128
4-Terphenyl-d14	87		47-138

Lab Control Sample Analysis
Batch Quality Control

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1459475-3								
Bis(2-ethylhexyl)phthalate	87		-		29-137	-		82
Butyl benzyl phthalate	80		-		1-140	-		60
Di-n-butylphthalate	78		-		8-120	-		47
Di-n-octylphthalate	83		-		19-132	-		69
Diethyl phthalate	75		-		1-120	-		100
Dimethyl phthalate	79		-		1-120	-		183

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	80				42-122
2-Fluorobiphenyl	72				46-121
4-Terphenyl-d14	68				47-138

Lab Control Sample Analysis
Batch Quality Control

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1459544-3								
Acenaphthene	77		-		60-132	-		30
Fluoranthene	85		-		43-121	-		30
Naphthalene	73		-		36-120	-		30
Benzo(a)anthracene	79		-		42-133	-		30
Benzo(a)pyrene	72		-		32-148	-		30
Benzo(b)fluoranthene	81		-		42-140	-		30
Benzo(k)fluoranthene	80		-		25-146	-		30
Chrysene	80		-		44-140	-		30
Acenaphthylene	83		-		54-126	-		30
Anthracene	78		-		43-120	-		30
Benzo(ghi)perylene	76		-		1-195	-		30
Fluorene	80		-		70-120	-		30
Phenanthrene	76		-		65-120	-		30
Dibenzo(a,h)anthracene	80		-		1-200	-		30
Indeno(1,2,3-cd)pyrene	84		-		1-151	-		30
Pyrene	85		-		70-120	-		30
Pentachlorophenol	77		-		38-152	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER ST

Project Number: 4867.00

Lab Number: L2104295

Report Date: 02/02/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1459544-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	47				25-87
Phenol-d6	33				16-65
Nitrobenzene-d5	72				42-122
2-Fluorobiphenyl	77				46-121
2,4,6-Tribromophenol	96				45-128
4-Terphenyl-d14	87				47-138

PCBS

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-01
Client ID: NPDES-3
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 09:45
Date Received: 01/27/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 127,608.3
Analytical Date: 01/30/21 09:44
Analyst: JM

Extraction Method: EPA 608.3
Extraction Date: 01/29/21 05:54
Cleanup Method: EPA 3665A
Cleanup Date: 01/29/21
Cleanup Method: EPA 3660B
Cleanup Date: 01/29/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.250	--	1	A
Aroclor 1221	ND		ug/l	0.250	--	1	A
Aroclor 1232	ND		ug/l	0.250	--	1	A
Aroclor 1242	ND		ug/l	0.250	--	1	A
Aroclor 1248	ND		ug/l	0.250	--	1	A
Aroclor 1254	ND		ug/l	0.250	--	1	A
Aroclor 1260	ND		ug/l	0.200	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		37-123	B
Decachlorobiphenyl	86		38-114	B
2,4,5,6-Tetrachloro-m-xylene	74		37-123	A
Decachlorobiphenyl	66		38-114	A

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-02
Client ID: NPDES-1
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 14:10
Date Received: 01/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 127,608.3
Analytical Date: 01/30/21 09:51
Analyst: JM

Extraction Method: EPA 608.3
Extraction Date: 01/29/21 05:54
Cleanup Method: EPA 3665A
Cleanup Date: 01/29/21
Cleanup Method: EPA 3660B
Cleanup Date: 01/29/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.250	--	1	A
Aroclor 1221	ND		ug/l	0.250	--	1	A
Aroclor 1232	ND		ug/l	0.250	--	1	A
Aroclor 1242	ND		ug/l	0.250	--	1	A
Aroclor 1248	ND		ug/l	0.250	--	1	A
Aroclor 1254	ND		ug/l	0.250	--	1	A
Aroclor 1260	ND		ug/l	0.200	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		37-123	B
Decachlorobiphenyl	83		38-114	B
2,4,5,6-Tetrachloro-m-xylene	74		37-123	A
Decachlorobiphenyl	65		38-114	A

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-03
Client ID: OF-2
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 14:45
Date Received: 01/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 127,608.3
Analytical Date: 01/30/21 09:59
Analyst: JM

Extraction Method: EPA 608.3
Extraction Date: 01/29/21 05:54
Cleanup Method: EPA 3665A
Cleanup Date: 01/29/21
Cleanup Method: EPA 3660B
Cleanup Date: 01/29/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.250	--	1	A
Aroclor 1221	ND		ug/l	0.250	--	1	A
Aroclor 1232	ND		ug/l	0.250	--	1	A
Aroclor 1242	ND		ug/l	0.250	--	1	A
Aroclor 1248	ND		ug/l	0.250	--	1	A
Aroclor 1254	ND		ug/l	0.250	--	1	A
Aroclor 1260	ND		ug/l	0.200	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		37-123	B
Decachlorobiphenyl	87		38-114	B
2,4,5,6-Tetrachloro-m-xylene	69		37-123	A
Decachlorobiphenyl	68		38-114	A

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 127,608.3
Analytical Date: 01/30/21 09:06
Analyst: JM

Extraction Method: EPA 608.3
Extraction Date: 01/29/21 05:54
Cleanup Method: EPA 3665A
Cleanup Date: 01/29/21
Cleanup Method: EPA 3660B
Cleanup Date: 01/29/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG1459904-1						
Aroclor 1016	ND		ug/l	0.250	--	A
Aroclor 1221	ND		ug/l	0.250	--	A
Aroclor 1232	ND		ug/l	0.250	--	A
Aroclor 1242	ND		ug/l	0.250	--	A
Aroclor 1248	ND		ug/l	0.250	--	A
Aroclor 1254	ND		ug/l	0.250	--	A
Aroclor 1260	ND		ug/l	0.200	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		37-123	B
Decachlorobiphenyl	87		38-114	B
2,4,5,6-Tetrachloro-m-xylene	75		37-123	A
Decachlorobiphenyl	66		38-114	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER ST

Project Number: 4867.00

Lab Number: L2104295

Report Date: 02/02/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1459904-2									
Aroclor 1016	74		-		50-140	-		36	A
Aroclor 1260	66		-		8-140	-		38	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77				37-123	B
Decachlorobiphenyl	74				38-114	B
2,4,5,6-Tetrachloro-m-xylene	66				37-123	A
Decachlorobiphenyl	57				38-114	A

METALS

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-01
Client ID: NPDES-3
Sample Location: 776 SUMMER ST
Sample Depth:
Matrix: Water

Date Collected: 01/27/21 09:45
Date Received: 01/27/21
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.00400	--	1	01/28/21 14:04	02/01/21 12:23	EPA 3005A	3,200.8	AM
Arsenic, Total	ND		mg/l	0.00100	--	1	01/28/21 14:04	02/01/21 12:23	EPA 3005A	3,200.8	AM
Cadmium, Total	ND		mg/l	0.00020	--	1	01/28/21 14:04	02/01/21 12:23	EPA 3005A	3,200.8	AM
Chromium, Total	ND		mg/l	0.00100	--	1	01/28/21 14:04	02/01/21 12:23	EPA 3005A	3,200.8	AM
Copper, Total	0.00134		mg/l	0.00100	--	1	01/28/21 14:04	02/01/21 12:23	EPA 3005A	3,200.8	AM
Iron, Total	0.054		mg/l	0.050	--	1	01/28/21 14:04	02/02/21 10:43	EPA 3005A	19,200.7	GD
Lead, Total	ND		mg/l	0.00100	--	1	01/28/21 14:04	02/01/21 12:23	EPA 3005A	3,200.8	AM
Mercury, Total	ND		mg/l	0.00020	--	1	01/28/21 15:06	01/29/21 09:55	EPA 245.1	3,245.1	VW
Nickel, Total	ND		mg/l	0.00200	--	1	01/28/21 14:04	02/01/21 12:23	EPA 3005A	3,200.8	AM
Selenium, Total	ND		mg/l	0.00500	--	1	01/28/21 14:04	02/01/21 12:23	EPA 3005A	3,200.8	AM
Silver, Total	ND		mg/l	0.00040	--	1	01/28/21 14:04	02/01/21 12:23	EPA 3005A	3,200.8	AM
Zinc, Total	ND		mg/l	0.01000	--	1	01/28/21 14:04	02/01/21 12:23	EPA 3005A	3,200.8	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	--	1		02/01/21 12:23	NA	107,-	
Dissolved Metals - Mansfield Lab											
Antimony, Dissolved	ND		mg/l	0.0040	--	1	01/29/21 10:35	02/01/21 08:24	EPA 3005A	3,200.8	AM
Arsenic, Dissolved	ND		mg/l	0.0010	--	1	01/29/21 10:35	02/01/21 08:24	EPA 3005A	3,200.8	AM
Cadmium, Dissolved	ND		mg/l	0.0002	--	1	01/29/21 10:35	02/01/21 08:24	EPA 3005A	3,200.8	AM
Chromium, Dissolved	ND		mg/l	0.0010	--	1	01/29/21 10:35	02/01/21 08:24	EPA 3005A	3,200.8	AM
Copper, Dissolved	0.0028		mg/l	0.0010	--	1	01/29/21 10:35	02/01/21 08:24	EPA 3005A	3,200.8	AM
Iron, Dissolved	0.082		mg/l	0.050	--	1	01/29/21 10:35	01/29/21 20:27	EPA 3005A	19,200.7	GD
Lead, Dissolved	ND		mg/l	0.0010	--	1	01/29/21 10:35	02/01/21 08:24	EPA 3005A	3,200.8	AM
Mercury, Dissolved	ND		mg/l	0.00020	--	1	01/29/21 11:18	01/29/21 21:30	EPA 245.1	3,245.1	EW
Nickel, Dissolved	ND		mg/l	0.0020	--	1	01/29/21 10:35	02/01/21 08:24	EPA 3005A	3,200.8	AM
Selenium, Dissolved	ND		mg/l	0.0050	--	1	01/29/21 10:35	02/01/21 08:24	EPA 3005A	3,200.8	AM
Silver, Dissolved	ND		mg/l	0.0004	--	1	01/29/21 10:35	02/01/21 08:24	EPA 3005A	3,200.8	AM
Zinc, Dissolved	0.0141		mg/l	0.0100	--	1	01/29/21 10:35	02/01/21 08:24	EPA 3005A	3,200.8	AM

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-02
Client ID: NPDES-1
Sample Location: 776 SUMMER ST
Date Collected: 01/27/21 14:10
Date Received: 01/27/21
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											
Antimony, Total	ND		mg/l	0.04000	--	10	01/28/21 14:04	02/01/21 12:32	EPA 3005A	3,200.8	AM
Arsenic, Total	ND		mg/l	0.01000	--	10	01/28/21 14:04	02/01/21 12:32	EPA 3005A	3,200.8	AM
Cadmium, Total	ND		mg/l	0.00200	--	10	01/28/21 14:04	02/01/21 12:32	EPA 3005A	3,200.8	AM
Chromium, Total	ND		mg/l	0.01000	--	10	01/28/21 14:04	02/01/21 12:32	EPA 3005A	3,200.8	AM
Copper, Total	ND		mg/l	0.01000	--	10	01/28/21 14:04	02/01/21 12:32	EPA 3005A	3,200.8	AM
Iron, Total	0.345		mg/l	0.050	--	1	01/28/21 14:04	02/02/21 09:37	EPA 3005A	19,200.7	GD
Lead, Total	0.01517		mg/l	0.01000	--	10	01/28/21 14:04	02/01/21 12:32	EPA 3005A	3,200.8	AM
Mercury, Total	ND		mg/l	0.00020	--	1	01/28/21 15:06	01/29/21 09:59	EPA 245.1	3,245.1	VW
Nickel, Total	ND		mg/l	0.02000	--	10	01/28/21 14:04	02/01/21 12:32	EPA 3005A	3,200.8	AM
Selenium, Total	ND		mg/l	0.05000	--	10	01/28/21 14:04	02/01/21 12:32	EPA 3005A	3,200.8	AM
Silver, Total	ND		mg/l	0.00400	--	10	01/28/21 14:04	02/01/21 12:32	EPA 3005A	3,200.8	AM
Zinc, Total	ND		mg/l	0.1000	--	10	01/28/21 14:04	02/01/21 12:32	EPA 3005A	3,200.8	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	--	1		02/01/21 12:32	NA	107,-	
Dissolved Metals - Mansfield Lab											
Antimony, Dissolved	ND		mg/l	0.0400	--	10	01/29/21 05:55	02/01/21 08:07	EPA 3005A	3,200.8	AM
Arsenic, Dissolved	ND		mg/l	0.0100	--	10	01/29/21 05:55	02/01/21 08:07	EPA 3005A	3,200.8	AM
Cadmium, Dissolved	ND		mg/l	0.0020	--	10	01/29/21 05:55	02/01/21 08:07	EPA 3005A	3,200.8	AM
Chromium, Dissolved	ND		mg/l	0.0100	--	10	01/29/21 05:55	02/01/21 08:07	EPA 3005A	3,200.8	AM
Copper, Dissolved	ND		mg/l	0.0100	--	10	01/29/21 05:55	02/01/21 08:07	EPA 3005A	3,200.8	AM
Iron, Dissolved	ND		mg/l	0.250	--	5	01/29/21 05:55	02/01/21 15:00	EPA 3005A	19,200.7	GD
Lead, Dissolved	ND		mg/l	0.0100	--	10	01/29/21 05:55	02/01/21 08:07	EPA 3005A	3,200.8	AM
Mercury, Dissolved	ND		mg/l	0.00100	--	1	01/29/21 06:44	01/29/21 10:49	EPA 245.1	3,245.1	VW
Nickel, Dissolved	ND		mg/l	0.0200	--	10	01/29/21 05:55	02/01/21 08:07	EPA 3005A	3,200.8	AM
Selenium, Dissolved	ND		mg/l	0.0500	--	10	01/29/21 05:55	02/01/21 08:07	EPA 3005A	3,200.8	AM
Silver, Dissolved	ND		mg/l	0.0040	--	10	01/29/21 05:55	02/01/21 08:07	EPA 3005A	3,200.8	AM
Zinc, Dissolved	ND		mg/l	0.1000	--	10	01/29/21 05:55	02/01/21 08:07	EPA 3005A	3,200.8	AM

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-03
Client ID: OF-2
Sample Location: 776 SUMMER ST
Sample Depth:
Matrix: Water

Date Collected: 01/27/21 14:45
Date Received: 01/27/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.04000	--	10	01/28/21 14:04	02/01/21 12:28	EPA 3005A	3,200.8	AM
Arsenic, Total	ND		mg/l	0.01000	--	10	01/28/21 14:04	02/01/21 12:28	EPA 3005A	3,200.8	AM
Cadmium, Total	ND		mg/l	0.00200	--	10	01/28/21 14:04	02/01/21 12:28	EPA 3005A	3,200.8	AM
Chromium, Total	ND		mg/l	0.01000	--	10	01/28/21 14:04	02/01/21 12:28	EPA 3005A	3,200.8	AM
Copper, Total	ND		mg/l	0.01000	--	10	01/28/21 14:04	02/01/21 12:28	EPA 3005A	3,200.8	AM
Iron, Total	0.073		mg/l	0.050	--	1	01/28/21 14:04	02/02/21 10:28	EPA 3005A	19,200.7	GD
Lead, Total	ND		mg/l	0.01000	--	10	01/28/21 14:04	02/01/21 12:28	EPA 3005A	3,200.8	AM
Mercury, Total	ND		mg/l	0.00020	--	1	01/28/21 15:06	01/29/21 10:02	EPA 245.1	3,245.1	VW
Nickel, Total	ND		mg/l	0.02000	--	10	01/28/21 14:04	02/01/21 12:28	EPA 3005A	3,200.8	AM
Selenium, Total	ND		mg/l	0.05000	--	10	01/28/21 14:04	02/01/21 12:28	EPA 3005A	3,200.8	AM
Silver, Total	ND		mg/l	0.00400	--	10	01/28/21 14:04	02/01/21 12:28	EPA 3005A	3,200.8	AM
Zinc, Total	ND		mg/l	0.1000	--	10	01/28/21 14:04	02/01/21 12:28	EPA 3005A	3,200.8	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	--	1		02/01/21 12:28	NA	107,-	

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02 Batch: WG1459635-1										
Iron, Dissolved	ND		mg/l	0.050	--	1	01/29/21 05:55	02/01/21 07:44	19,200.7	GD

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02 Batch: WG1459636-1										
Antimony, Dissolved	ND		mg/l	0.0040	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Arsenic, Dissolved	ND		mg/l	0.0010	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Cadmium, Dissolved	ND		mg/l	0.0002	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Chromium, Dissolved	ND		mg/l	0.0010	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Copper, Dissolved	ND		mg/l	0.0010	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Lead, Dissolved	ND		mg/l	0.0010	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Nickel, Dissolved	ND		mg/l	0.0020	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Selenium, Dissolved	ND		mg/l	0.0050	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Silver, Dissolved	ND		mg/l	0.0004	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Zinc, Dissolved	ND		mg/l	0.0100	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02 Batch: WG1459637-1										
Mercury, Dissolved	ND		mg/l	0.00020	--	1	01/29/21 06:44	01/29/21 10:42	3,245.1	VW

Prep Information

Digestion Method: EPA 245.1

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

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): 01-03 Batch: WG1459640-1										
Iron, Total	ND		mg/l	0.050	--	1	01/28/21 14:04	02/02/21 10:19	19,200.7	GD

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): 01-03 Batch: WG1459650-1										
Antimony, Total	ND		mg/l	0.00400	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Arsenic, Total	ND		mg/l	0.00100	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Cadmium, Total	ND		mg/l	0.00020	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Chromium, Total	ND		mg/l	0.00100	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Copper, Total	ND		mg/l	0.00100	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Lead, Total	ND		mg/l	0.00100	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Nickel, Total	ND		mg/l	0.00200	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Selenium, Total	ND		mg/l	0.00500	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Silver, Total	ND		mg/l	0.00040	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Zinc, Total	ND		mg/l	0.01000	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	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): 01-03 Batch: WG1459651-1										
Mercury, Total	ND		mg/l	0.00020	--	1	01/28/21 15:06	01/29/21 09:12	3,245.1	VW

Prep Information

Digestion Method: EPA 245.1

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01 Batch: WG1460007-1										
Antimony, Dissolved	ND		mg/l	0.0040	--	1	01/29/21 10:35	02/01/21 07:50	3,200.8	AM
Arsenic, Dissolved	ND		mg/l	0.0010	--	1	01/29/21 10:35	02/01/21 07:50	3,200.8	AM
Cadmium, Dissolved	ND		mg/l	0.0002	--	1	01/29/21 10:35	02/01/21 07:50	3,200.8	AM
Chromium, Dissolved	ND		mg/l	0.0010	--	1	01/29/21 10:35	02/01/21 07:50	3,200.8	AM
Copper, Dissolved	ND		mg/l	0.0010	--	1	01/29/21 10:35	02/01/21 07:50	3,200.8	AM
Lead, Dissolved	ND		mg/l	0.0010	--	1	01/29/21 10:35	02/01/21 07:50	3,200.8	AM
Nickel, Dissolved	ND		mg/l	0.0020	--	1	01/29/21 10:35	02/01/21 07:50	3,200.8	AM
Selenium, Dissolved	ND		mg/l	0.0050	--	1	01/29/21 10:35	02/01/21 07:50	3,200.8	AM
Silver, Dissolved	ND		mg/l	0.0004	--	1	01/29/21 10:35	02/01/21 07:50	3,200.8	AM
Zinc, Dissolved	ND		mg/l	0.0100	--	1	01/29/21 10:35	02/01/21 07:50	3,200.8	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01 Batch: WG1460009-1										
Iron, Dissolved	ND		mg/l	0.050	--	1	01/29/21 10:35	01/29/21 20:18	19,200.7	GD

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01 Batch: WG1460012-1										
Mercury, Dissolved	ND		mg/l	0.00020	--	1	01/29/21 11:18	01/29/21 21:23	3,245.1	EW

Prep Information

Digestion Method: EPA 245.1

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER ST

Project Number: 4867.00

Lab Number: L2104295

Report Date: 02/02/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1459635-2								
Iron, Dissolved	102		-		85-115	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1459636-2								
Antimony, Dissolved	94		-		85-115	-		
Arsenic, Dissolved	104		-		85-115	-		
Cadmium, Dissolved	107		-		85-115	-		
Chromium, Dissolved	95		-		85-115	-		
Copper, Dissolved	100		-		85-115	-		
Lead, Dissolved	105		-		85-115	-		
Nickel, Dissolved	94		-		85-115	-		
Selenium, Dissolved	105		-		85-115	-		
Silver, Dissolved	100		-		85-115	-		
Zinc, Dissolved	106		-		85-115	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1459637-2								
Mercury, Dissolved	102		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1459640-2								
Iron, Total	99		-		85-115	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER ST

Project Number: 4867.00

Lab Number: L2104295

Report Date: 02/02/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1459650-2					
Antimony, Total	90	-	85-115	-	
Arsenic, Total	103	-	85-115	-	
Cadmium, Total	104	-	85-115	-	
Chromium, Total	93	-	85-115	-	
Copper, Total	99	-	85-115	-	
Lead, Total	103	-	85-115	-	
Nickel, Total	92	-	85-115	-	
Selenium, Total	106	-	85-115	-	
Silver, Total	98	-	85-115	-	
Zinc, Total	106	-	85-115	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1459651-2					
Mercury, Total	100	-	85-115	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER ST

Project Number: 4867.00

Lab Number: L2104295

Report Date: 02/02/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1460007-2					
Antimony, Dissolved	95	-	85-115	-	
Arsenic, Dissolved	102	-	85-115	-	
Cadmium, Dissolved	104	-	85-115	-	
Chromium, Dissolved	98	-	85-115	-	
Copper, Dissolved	103	-	85-115	-	
Lead, Dissolved	105	-	85-115	-	
Nickel, Dissolved	96	-	85-115	-	
Selenium, Dissolved	104	-	85-115	-	
Silver, Dissolved	98	-	85-115	-	
Zinc, Dissolved	106	-	85-115	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1460009-2					
Iron, Dissolved	101	-	85-115	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1460012-2					
Mercury, Dissolved	101	-	85-115	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1459635-3 QC Sample: L2104295-02 Client ID: NPDES-1												
Iron, Dissolved	ND	2	1.84	92		-	-		75-125	-		20
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1459636-3 QC Sample: L2104295-02 Client ID: NPDES-1												
Antimony, Dissolved	ND	1	0.9880	99		-	-		70-130	-		20
Arsenic, Dissolved	ND	0.24	0.2237	93		-	-		70-130	-		20
Cadmium, Dissolved	ND	0.102	0.0994	97		-	-		70-130	-		20
Chromium, Dissolved	ND	0.4	0.3574	89		-	-		70-130	-		20
Copper, Dissolved	ND	0.5	0.5006	100		-	-		70-130	-		20
Lead, Dissolved	ND	1.02	1.148	112		-	-		70-130	-		20
Nickel, Dissolved	ND	1	0.9723	97		-	-		70-130	-		20
Selenium, Dissolved	ND	0.24	0.1027	**43**	Q	-	-		70-130	-		20
Silver, Dissolved	ND	0.1	0.0930	93		-	-		70-130	-		20
Zinc, Dissolved	ND	1	0.9338	93		-	-		70-130	-		20
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1459637-3 QC Sample: L2104295-02 Client ID: NPDES-1												
Mercury, Dissolved	ND	0.025	0.02396	96		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1459640-3 QC Sample: L2104295-01 Client ID: NPDES-3												
Iron, Total	0.054	1	1.05	100		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

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): 01-03 QC Batch ID: WG1459650-3 QC Sample: L2104295-01 Client ID: NPDES-3									
Antimony, Total	ND	0.5	0.4660	93	-	-	70-130	-	20
Arsenic, Total	ND	0.12	0.1232	103	-	-	70-130	-	20
Cadmium, Total	ND	0.051	0.05437	107	-	-	70-130	-	20
Chromium, Total	ND	0.2	0.1890	94	-	-	70-130	-	20
Copper, Total	0.00134	0.25	0.2522	100	-	-	70-130	-	20
Lead, Total	ND	0.51	0.5435	106	-	-	70-130	-	20
Nickel, Total	ND	0.5	0.4718	94	-	-	70-130	-	20
Selenium, Total	ND	0.12	0.1218	102	-	-	70-130	-	20
Silver, Total	ND	0.05	0.05015	100	-	-	70-130	-	20
Zinc, Total	ND	0.5	0.5313	106	-	-	70-130	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1459650-5 QC Sample: L2104279-02 Client ID: MS Sample									
Antimony, Total	ND	0.5	0.4581	92	-	-	70-130	-	20
Arsenic, Total	ND	0.12	0.1232	103	-	-	70-130	-	20
Cadmium, Total	ND	0.051	0.05429	106	-	-	70-130	-	20
Chromium, Total	ND	0.2	0.1901	95	-	-	70-130	-	20
Copper, Total	0.01400	0.25	0.2558	97	-	-	70-130	-	20
Lead, Total	0.00225	0.51	0.5516	108	-	-	70-130	-	20
Nickel, Total	ND	0.5	0.4727	94	-	-	70-130	-	20
Selenium, Total	ND	0.12	0.1118	93	-	-	70-130	-	20
Silver, Total	ND	0.05	0.05051	101	-	-	70-130	-	20
Zinc, Total	0.02464	0.5	0.5355	102	-	-	70-130	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

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): 01-03 QC Batch ID: WG1459651-3 QC Sample: L2104346-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00477	95	-	-	70-130	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1459651-5 QC Sample: L2104346-02 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00466	93	-	-	70-130	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1460007-3 QC Sample: L2104295-01 Client ID: NPDES-3									
Antimony, Dissolved	ND	0.5	0.5068	101	-	-	70-130	-	20
Arsenic, Dissolved	ND	0.12	0.1307	109	-	-	70-130	-	20
Cadmium, Dissolved	ND	0.051	0.0560	110	-	-	70-130	-	20
Chromium, Dissolved	ND	0.2	0.1872	94	-	-	70-130	-	20
Copper, Dissolved	0.0028	0.25	0.2716	108	-	-	70-130	-	20
Lead, Dissolved	ND	0.51	0.5678	111	-	-	70-130	-	20
Nickel, Dissolved	ND	0.5	0.4876	98	-	-	70-130	-	20
Selenium, Dissolved	ND	0.12	0.1162	97	-	-	70-130	-	20
Silver, Dissolved	ND	0.05	0.0490	98	-	-	70-130	-	20
Zinc, Dissolved	0.0141	0.5	0.5446	106	-	-	70-130	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1460009-3 QC Sample: L2104295-01 Client ID: NPDES-3									
Iron, Dissolved	0.082	1	1.06	98	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1460012-3 QC Sample: L2104295-01 Client ID: NPDES-3									
Mercury, Dissolved	ND	0.005	0.00480	96	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1459635-4 QC Sample: L2104295-02 Client ID: NPDES-1						
Iron, Dissolved	ND	ND	mg/l	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1459636-4 QC Sample: L2104295-02 Client ID: NPDES-1						
Antimony, Dissolved	ND	ND	mg/l	NC		20
Arsenic, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Chromium, Dissolved	ND	ND	mg/l	NC		20
Copper, Dissolved	ND	ND	mg/l	NC		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Nickel, Dissolved	ND	ND	mg/l	NC		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Zinc, Dissolved	ND	ND	mg/l	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1459637-4 QC Sample: L2104295-02 Client ID: NPDES-1						
Mercury, Dissolved	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1459640-4 QC Sample: L2104295-01 Client ID: NPDES-3						
Iron, Total	0.054	0.057	mg/l	5		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 776 SUMMER ST

Project Number: 4867.00

Lab Number: L2104295

Report Date: 02/02/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1459650-4 QC Sample: L2104295-01 Client ID: NPDES-3					
Antimony, Total	ND	ND	mg/l	NC	20
Arsenic, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Copper, Total	0.00134	0.00123	mg/l	8	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
Silver, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1459650-6 QC Sample: L2104279-02 Client ID: DUP Sample					
Antimony, Total	ND	ND	mg/l	NC	20
Arsenic, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Copper, Total	0.01400	0.01464	mg/l	4	20
Lead, Total	0.00225	0.00235	mg/l	4	20
Nickel, Total	ND	ND	mg/l	NC	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Zinc, Total	0.02464	0.02517	mg/l	2	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1459651-4 QC Sample: L2104346-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1459651-6 QC Sample: L2104346-02 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1460007-4 QC Sample: L2104295-01 Client ID: NPDES-3						
Antimony, Dissolved	ND	ND	mg/l	NC		20
Arsenic, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Chromium, Dissolved	ND	ND	mg/l	NC		20
Copper, Dissolved	0.0028	0.0027	mg/l	3		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Nickel, Dissolved	ND	ND	mg/l	NC		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Zinc, Dissolved	0.0141	0.0106	mg/l	**28**	Q	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1460009-4 QC Sample: L2104295-01 Client ID: NPDES-3						
Iron, Dissolved	0.082	0.078	mg/l	5		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1460012-4 QC Sample: L2104295-01 Client ID: NPDES-3						
Mercury, Dissolved	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-01
Client ID: NPDES-3
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 09:45
Date Received: 01/27/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	01/28/21 14:30	121,2540D	AC
Cyanide, Total	ND		mg/l	0.005	--	1	01/28/21 10:15	01/28/21 12:36	121,4500CN-CE	CR
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	01/27/21 22:56	121,4500CL-D	QW
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	01/28/21 03:33	01/29/21 19:54	121,4500NH3-BH	AT
TPH, SGT-HEM	ND		mg/l	4.00	--	1	01/29/21 19:30	01/29/21 20:30	74,1664A	TL
Phenolics, Total	ND		mg/l	0.030	--	1	01/28/21 07:02	01/28/21 10:57	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	--	1	01/28/21 06:10	01/28/21 06:42	1,7196A	AW
Anions by Ion Chromatography - Westborough Lab										
Chloride	125.		mg/l	5.00	--	10	-	01/29/21 01:22	44,300.0	AT

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-02
Client ID: NPDES-1
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 14:10
Date Received: 01/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	10.		mg/l	5.0	NA	1	-	01/28/21 14:30	121,2540D	AC
Cyanide, Total	ND		mg/l	0.005	--	1	01/28/21 10:15	01/28/21 12:38	121,4500CN-CE	CR
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	01/27/21 22:56	121,4500CL-D	QW
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	01/28/21 03:33	01/29/21 19:55	121,4500NH3-BH	AT
TPH, SGT-HEM	ND		mg/l	4.00	--	1	01/29/21 19:30	01/29/21 20:30	74,1664A	TL
Phenolics, Total	ND		mg/l	0.030	--	1	01/28/21 07:02	01/28/21 10:58	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	--	1	01/28/21 06:10	01/28/21 06:42	1,7196A	AW
Anions by Ion Chromatography - Westborough Lab										
Chloride	13600		mg/l	250	--	500	-	01/29/21 01:34	44,300.0	AT

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104295-03
Client ID: OF-2
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 14:45
Date Received: 01/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	22.		mg/l	5.0	NA	1	-	01/28/21 14:30	121,2540D	AC
Cyanide, Total	ND		mg/l	0.005	--	1	01/28/21 10:15	01/28/21 12:42	121,4500CN-CE	CR
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	01/27/21 22:56	121,4500CL-D	QW
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	01/28/21 03:33	01/29/21 19:55	121,4500NH3-BH	AT
TPH, SGT-HEM	ND		mg/l	4.00	--	1	01/29/21 19:30	01/29/21 20:30	74,1664A	TL
Phenolics, Total	ND		mg/l	0.030	--	1	01/28/21 07:02	01/28/21 10:59	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	--	1	01/28/21 06:10	01/28/21 06:42	1,7196A	AW
Anions by Ion Chromatography - Westborough Lab										
Chloride	16400		mg/l	250	--	500	-	01/29/21 02:10	44,300.0	AT

Project Name: 776 SUMMER ST
Project Number: 4867.00
Lab Number: L2104295
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1459414-1										
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	01/27/21 22:56	121,4500CL-D	QW
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1459415-1										
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	01/28/21 03:33	01/29/21 19:41	121,4500NH3-BH	AT
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1459497-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	01/28/21 06:10	01/28/21 06:41	1,7196A	AW
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1459510-1										
Phenolics, Total	ND		mg/l	0.030	--	1	01/28/21 07:02	01/28/21 10:50	4,420.1	KP
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1459573-1										
Cyanide, Total	ND		mg/l	0.005	--	1	01/28/21 10:15	01/28/21 12:30	121,4500CN-CE	CR
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1459576-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	01/28/21 14:30	121,2540D	AC
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-03 Batch: WG1459861-1										
Chloride	ND		mg/l	0.500	--	1	-	01/28/21 17:18	44,300.0	AT
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1460143-1										
TPH, SGT-HEM	ND		mg/l	4.00	--	1	01/29/21 19:30	01/29/21 20:30	74,1664A	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER ST

Project Number: 4867.00

Lab Number: L2104295

Report Date: 02/02/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1459414-2								
Chlorine, Total Residual	108		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1459415-2								
Nitrogen, Ammonia	97		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1459497-2								
Chromium, Hexavalent	102		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1459510-2								
Phenolics, Total	92		-		70-130	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1459573-2								
Cyanide, Total	92		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1459576-2								
Solids, Total Suspended	98		-		80-120	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03 Batch: WG1459861-2								
Chloride	107		-		90-110	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1460143-2					
TPH	82	-	64-132	-	34

Matrix Spike Analysis
Batch Quality Control

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1459414-4 QC Sample: L2104295-02 Client ID: NPDES-1												
Chlorine, Total Residual	ND	0.25	0.25	100		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1459415-4 QC Sample: L2104344-01 Client ID: MS Sample												
Nitrogen, Ammonia	0.569	4	3.96	85		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1459497-4 QC Sample: L2104295-03 Client ID: OF-2												
Chromium, Hexavalent	ND	0.1	0.105	105		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1459510-4 QC Sample: L2104358-01 Client ID: MS Sample												
Phenolics, Total	ND	0.4	0.38	96		-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1459573-4 QC Sample: L2104295-02 Client ID: NPDES-1												
Cyanide, Total	ND	0.2	0.199	100		-	-		90-110	-		30
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1459861-3 QC Sample: L2104130-04 Client ID: MS Sample												
Chloride	ND	4	4.10	103		-	-		90-110	-		18
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1460143-4 QC Sample: L2104358-01 Client ID: MS Sample												
TPH	ND	20	12.1	**60**	Q	-	-		64-132	-		34

Lab Duplicate Analysis
Batch Quality Control

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1459414-3 QC Sample: L2104295-01 Client ID: NPDES-3						
Chlorine, Total Residual	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1459415-3 QC Sample: L2104344-01 Client ID: DUP Sample						
Nitrogen, Ammonia	0.569	0.394	mg/l	**36**	Q	20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1459497-3 QC Sample: L2104295-03 Client ID: OF-2						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1459510-3 QC Sample: L2104358-01 Client ID: DUP Sample						
Phenolics, Total	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1459573-3 QC Sample: L2104295-01 Client ID: NPDES-3						
Cyanide, Total	ND	ND	mg/l	NC		30
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1459576-3 QC Sample: L2104120-01 Client ID: DUP Sample						
Solids, Total Suspended	430	450	mg/l	5		29
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1459861-4 QC Sample: L2104130-04 Client ID: DUP Sample						
Chloride	ND	ND	mg/l	NC		18
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1460143-3 QC Sample: L2104344-01 Client ID: DUP Sample						
TPH	ND	ND	mg/l	NC		34

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2104295-01A	Vial Na2S2O3 preserved	C	NA		2.9	Y	Absent		504(14)
L2104295-01B	Vial Na2S2O3 preserved	C	NA		2.9	Y	Absent		504(14)
L2104295-01C	Vial Na2S2O3 preserved	C	NA		2.9	Y	Absent		504(14)
L2104295-01D	Vial Na2S2O3 preserved	C	NA		2.9	Y	Absent		624.1-RGP(7)
L2104295-01E	Vial Na2S2O3 preserved	C	NA		2.9	Y	Absent		624.1-RGP(7)
L2104295-01F	Vial Na2S2O3 preserved	C	NA		2.9	Y	Absent		624.1-RGP(7)
L2104295-01G	Vial Na2S2O3 preserved	C	NA		2.9	Y	Absent		624.1-SIM-RGP(7)
L2104295-01H	Vial Na2S2O3 preserved	C	NA		2.9	Y	Absent		624.1-SIM-RGP(7)
L2104295-01I	Vial unpreserved	C	NA		2.9	Y	Absent		SUB-ETHANOL(14)
L2104295-01J	Vial unpreserved	C	NA		2.9	Y	Absent		SUB-ETHANOL(14)
L2104295-01K	Vial unpreserved	C	NA		2.9	Y	Absent		SUB-ETHANOL(14)
L2104295-01L	Plastic 250ml HNO3 preserved	C	<2	<2	2.9	Y	Absent		AG-2008S(180),CR-2008S(180),FE-RI(180),PB-2008S(180),AS-2008S(180),ZN-2008S(180),SE-2008S(180),NI-2008S(180),CD-2008S(180),CU-2008S(180),SB-2008S(180),HG-R(28)
L2104295-01M	Plastic 250ml HNO3 preserved	C	<2	<2	2.9	Y	Absent		CD-2008T(180),NI-2008T(180),ZN-2008T(180),CU-2008T(180),FE-UI(180),AG-2008T(180),HG-U(28),AS-2008T(180),SE-2008T(180),CR-2008T(180),SB-2008T(180),PB-2008T(180)
L2104295-01N	Plastic 250ml NaOH preserved	C	>12	>12	2.9	Y	Absent		TCN-4500(14)
L2104295-01O	Plastic 500ml H2SO4 preserved	C	<2	<2	2.9	Y	Absent		NH3-4500(28)
L2104295-01P	Plastic 950ml unpreserved	C	7	7	2.9	Y	Absent		CL-300(28),HEXCR-7196(1),TRC-4500(1)
L2104295-01Q	Plastic 950ml unpreserved	C	7	7	2.9	Y	Absent		TSS-2540(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2104295-01R	Amber 950ml H2SO4 preserved	C	<2	<2	2.9	Y	Absent		TPHENOL-420(28)
L2104295-01S	Amber 1000ml Na2S2O3	C	7	7	2.9	Y	Absent		PCB-608.3(365)
L2104295-01T	Amber 1000ml Na2S2O3	C	7	7	2.9	Y	Absent		PCB-608.3(365)
L2104295-01U	Amber 1000ml Na2S2O3	C	7	7	2.9	Y	Absent		625.1-RGP(7)
L2104295-01V	Amber 1000ml Na2S2O3	C	7	7	2.9	Y	Absent		625.1-RGP(7)
L2104295-01W	Amber 1000ml Na2S2O3	C	7	7	2.9	Y	Absent		625.1-SIM-RGP(7)
L2104295-01X	Amber 1000ml Na2S2O3	C	7	7	2.9	Y	Absent		625.1-SIM-RGP(7)
L2104295-01Y	Amber 1000ml HCl preserved	C	NA		2.9	Y	Absent		TPH-1664(28)
L2104295-01Z	Amber 1000ml HCl preserved	C	NA		2.9	Y	Absent		TPH-1664(28)
L2104295-02A	Vial Na2S2O3 preserved	B	NA		3.5	Y	Absent		504(14)
L2104295-02B	Vial Na2S2O3 preserved	B	NA		3.5	Y	Absent		504(14)
L2104295-02C	Vial Na2S2O3 preserved	B	NA		3.5	Y	Absent		504(14)
L2104295-02D	Vial Na2S2O3 preserved	B	NA		3.5	Y	Absent		624.1-RGP(7)
L2104295-02E	Vial Na2S2O3 preserved	B	NA		3.5	Y	Absent		624.1-RGP(7)
L2104295-02F	Vial Na2S2O3 preserved	B	NA		3.5	Y	Absent		624.1-RGP(7)
L2104295-02G	Vial Na2S2O3 preserved	B	NA		3.5	Y	Absent		624.1-SIM-RGP(7)
L2104295-02H	Vial Na2S2O3 preserved	B	NA		3.5	Y	Absent		624.1-SIM-RGP(7)
L2104295-02I	Vial unpreserved	B	NA		3.5	Y	Absent		SUB-ETHANOL(14)
L2104295-02J	Vial unpreserved	B	NA		3.5	Y	Absent		SUB-ETHANOL(14)
L2104295-02K	Vial unpreserved	B	NA		3.5	Y	Absent		SUB-ETHANOL(14)
L2104295-02L	Plastic 250ml HNO3 preserved	B	<2	<2	3.5	Y	Absent		CD-2008T(180),NI-2008T(180),ZN-2008T(180),FE-UI(180),CU-2008T(180),HG-U(28),SE-2008T(180),AS-2008T(180),AG-2008T(180),CR-2008T(180),SB-2008T(180),PB-2008T(180)
L2104295-02M	Plastic 250ml NaOH preserved	B	>12	>12	3.5	Y	Absent		TCN-4500(14)
L2104295-02N	Plastic 500ml H2SO4 preserved	B	<2	<2	3.5	Y	Absent		NH3-4500(28)
L2104295-02O	Plastic 950ml unpreserved	B	7	7	3.5	Y	Absent		-
L2104295-02P	Plastic 950ml unpreserved	B	7	7	3.5	Y	Absent		CL-300(28),HEXCR-7196(1),TRC-4500(1)
L2104295-02Q	Plastic 950ml unpreserved	B	7	7	3.5	Y	Absent		TSS-2540(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2104295-02R	Amber 950ml H2SO4 preserved	B	<2	<2	3.5	Y	Absent		TPHENOL-420(28)
L2104295-02S	Amber 1000ml Na2S2O3	B	7	7	3.5	Y	Absent		PCB-608.3(365)
L2104295-02T	Amber 1000ml Na2S2O3	B	7	7	3.5	Y	Absent		PCB-608.3(365)
L2104295-02U	Amber 1000ml Na2S2O3	B	7	7	3.5	Y	Absent		625.1-RGP(7)
L2104295-02V	Amber 1000ml Na2S2O3	B	7	7	3.5	Y	Absent		625.1-RGP(7)
L2104295-02W	Amber 1000ml Na2S2O3	B	7	7	3.5	Y	Absent		625.1-SIM-RGP(7)
L2104295-02X	Amber 1000ml Na2S2O3	B	7	7	3.5	Y	Absent		625.1-SIM-RGP(7)
L2104295-02X1	Plastic 120ml HNO3 preserved Filtrates	B	NA		3.5	Y	Absent		CR-2008S(180),FE-RI(180),AG-2008S(180),AS-2008S(180),ZN-2008S(180),PB-2008S(180),SE-2008S(180),NI-2008S(180),SB-2008S(180),CD-2008S(180),CU-2008S(180),HG-R(28)
L2104295-02Y	Amber 1000ml HCl preserved	B	NA		3.5	Y	Absent		TPH-1664(28)
L2104295-02Z	Amber 1000ml HCl preserved	B	NA		3.5	Y	Absent		TPH-1664(28)
L2104295-03A	Vial Na2S2O3 preserved	A	NA		3.1	Y	Absent		504(14)
L2104295-03B	Vial Na2S2O3 preserved	A	NA		3.1	Y	Absent		504(14)
L2104295-03C	Vial Na2S2O3 preserved	A	NA		3.1	Y	Absent		504(14)
L2104295-03D	Vial Na2S2O3 preserved	A	NA		3.1	Y	Absent		624.1-RGP(7)
L2104295-03E	Vial Na2S2O3 preserved	A	NA		3.1	Y	Absent		624.1-RGP(7)
L2104295-03F	Vial Na2S2O3 preserved	A	NA		3.1	Y	Absent		624.1-RGP(7)
L2104295-03G	Vial Na2S2O3 preserved	A	NA		3.1	Y	Absent		624.1-SIM-RGP(7)
L2104295-03H	Vial Na2S2O3 preserved	A	NA		3.1	Y	Absent		624.1-SIM-RGP(7)
L2104295-03I	Vial unpreserved	A	NA		3.1	Y	Absent		SUB-ETHANOL(14)
L2104295-03J	Vial unpreserved	A	NA		3.1	Y	Absent		SUB-ETHANOL(14)
L2104295-03K	Vial unpreserved	A	NA		3.1	Y	Absent		SUB-ETHANOL(14)
L2104295-03L	Plastic 250ml HNO3 preserved	A	<2	<2	3.1	Y	Absent		CD-2008T(180),NI-2008T(180),ZN-2008T(180),CU-2008T(180),FE-UI(180),AS-2008T(180),AG-2008T(180),HG-U(28),SE-2008T(180),PB-2008T(180),SB-2008T(180),CR-2008T(180)
L2104295-03M	Plastic 250ml NaOH preserved	A	>12	>12	3.1	Y	Absent		TCN-4500(14)
L2104295-03N	Plastic 500ml H2SO4 preserved	A	<2	<2	3.1	Y	Absent		NH3-4500(28)

*Values in parentheses indicate holding time in days

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2104295
Report Date: 02/02/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2104295-03O	Plastic 950ml unpreserved	A	7	7	3.1	Y	Absent		HEXCR-7196(1),CL-300(28),TRC-4500(1)
L2104295-03P	Plastic 950ml unpreserved	A	7	7	3.1	Y	Absent		HEXCR-7196(1),CL-300(28),TRC-4500(1)
L2104295-03Q	Plastic 950ml unpreserved	A	7	7	3.1	Y	Absent		TSS-2540(7)
L2104295-03R	Amber 950ml H2SO4 preserved	A	<2	<2	3.1	Y	Absent		TPHENOL-420(28)
L2104295-03S	Amber 1000ml Na2S2O3	A	7	7	3.1	Y	Absent		PCB-608.3(365)
L2104295-03T	Amber 1000ml Na2S2O3	A	7	7	3.1	Y	Absent		PCB-608.3(365)
L2104295-03U	Amber 1000ml Na2S2O3	A	7	7	3.1	Y	Absent		625.1-RGP(7)
L2104295-03V	Amber 1000ml Na2S2O3	A	7	7	3.1	Y	Absent		625.1-RGP(7)
L2104295-03W	Amber 1000ml Na2S2O3	A	7	7	3.1	Y	Absent		625.1-SIM-RGP(7)
L2104295-03X	Amber 1000ml Na2S2O3	A	7	7	3.1	Y	Absent		625.1-SIM-RGP(7)
L2104295-03Y	Amber 1000ml HCl preserved	A	NA		3.1	Y	Absent		TPH-1664(28)
L2104295-03Z	Amber 1000ml HCl preserved	A	NA		3.1	Y	Absent		TPH-1664(28)

Container Comments

L2104295-03B Labelled 14:25

*Values in parentheses indicate holding time in days

Project Name:	776 SUMMER ST	**Lab Number:**	L2104295
Project Number:	4867.00	**Report Date:**	02/02/21

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: Data Usability Report

Project Name:	776 SUMMER ST	**Lab Number:**	L2104295
Project Number:	4867.00	**Report Date:**	02/02/21

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. 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 reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report

Project Name:	776 SUMMER ST	**Lab Number:**	L2104295
Project Number:	4867.00	**Report Date:**	02/02/21

Data Qualifiers

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: Data Usability Report

Project Name:	776 SUMMER ST	**Lab Number:**	L2104295
Project Number:	4867.00	**Report Date:**	02/02/21

REFERENCES

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

3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

14 Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. EPA/600/4-88/039, Revised July 1991.

19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

74 Method 1664,Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.

107 Alpha Analytical - In-house calculation method.

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

127 Method 608.3: Organochlorine Pesticides and PCBs by GC/HSD, EPA 821-R-16-009, December 2016.

128 Method 624.1: Purgeables by GC/MS, EPA 821-R-16-008, December 2016.

129 Method 625.1: Base/Neutrals and Acids by GC/MS, EPA 821-R-16-007, December 2016.

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.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 1/27/21

ALPHA Job #: L2104295

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Project Information

Project Name: 776 Summer St

Project Location: 776 Summer St

Project #: 4867.00

Project Manager: Pat Malone

ALPHA Quote #:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #:

Client Information

Client: Sanborn Head

Address: 98 N Washington St
Suite 101, Boston, MA 02114

Phone: 978-505-7721

Email: pmalone@sanbornhead.com

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☒ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:

*NPDES-3 Dissolved Metals HAS been field filtered

*NPDES-1 and OF-2 have NOT been field filtered

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	ANALYSIS: VOC: ☐ 8260 ☐ 624 ☐ 524.2	SVOC: ☐ ABN ☐ PAH	METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15	METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13	EPH: ☐ Ranges & Targets ☐ Ranges Only	VPH: ☐ Ranges & Targets ☐ Ranges Only	☐ PCB ☐ PEST	TPH: ☐ Quant Only ☐ Fingerprint	NPDES RGP	NPDES RGP Dissolved Metals	SAMPLE INFO: Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do	Sample Comments	TOTAL # BOTTLES
04295-01	NPDES-3	1/27/21	09:55	W	LAA									X	X		dissolved metals were field filtered	
-02	NPDES-1	1/27/21	14:10	W	LAA									X	X		dissolved metals have NOT been filtered	
-03	OF-2	1/27/21	14:45	W	LAA									X	X		dissolved metals have NOT been filtered	

Container Type
Preservative

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
	1/27/21 15:30	AA	1/27/21 1532
AAL	1/27/21 1700		1/27/21 1730

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

ALPHA ANALYTICAL
World Class Chemistry

Subcontract Chain of Custody

Tek Lab, Inc.
5445 Horsehoe Lake Road
Collinsville, IL 62234-7425

Alpha Job Number
L2104295

Client Information	Project Information	Regulatory Requirements/Report Limits
Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 508-439-5132 Email: akane@alphalab.com	Project Location: MA Project Manager: Ashaley Kane **Turnaround & Deliverables Information** Due Date: Deliverables:	State/Federal Program: Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2104295

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	NPDES-3	01-27-21 09:55	WATER	Ethanol by EPA 1671 Revision A	
	NPDES-1	01-27-21 14:10	WATER	Ethanol by EPA 1671 Revision A	
	OF-2	01-27-21 14:45	WATER	Ethanol by EPA 1671 Revision A	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
	C Sclean	1/28/21		
Form No: AL_subcoc				

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

February 02, 2021

Ashaley Kane
Alpha Analytical
145 Flanders Road
Westborough, MA 01581
TEL: (508) 439-5132
FAX:

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: L2104295 **WorkOrder:** 21011493

Dear Ashaley Kane:

TEKLAB, INC received 3 samples on 1/29/2021 9:39:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Marvin L. Darling II

Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com

Teklab, Inc.
Environmental Laboratory

Report Contents

http://www.teklabinc.com/

Client: Alpha Analytical
Client Project: L2104295

Work Order: 21011493
Report Date: 02-Feb-21

This reporting package includes the following:

Teklab, Inc.
Environmental Laboratory

Definitions

http://www.teklabinc.com/

Client: Alpha Analytical **Work Order:** 21011493

Client Project: L2104295 **Report Date:** 02-Feb-21

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Teklab, Inc.
Environmental Laboratory

Definitions

http://www.teklabinc.com/

Client: Alpha Analytical
Work Order: 21011493

Client Project: L2104295
Report Date: 02-Feb-21

Qualifiers

# -	Unknown hydrocarbon	B -	Analyte detected in associated Method Blank
C -	RL shown is a Client Requested Quantitation Limit	E -	Value above quantitation range
H -	Holding times exceeded	I -	Associated internal standard was outside method criteria
J -	Analyte detected below quantitation limits	M -	Manual Integration used to determine area response
ND -	Not Detected at the Reporting Limit	R -	RPD outside accepted recovery limits
S -	Spike Recovery outside recovery limits	T -	TIC(Tentatively identified compound)
X -	Value exceeds Maximum Contaminant Level		

Teklab, Inc.
Environmental Laboratory

Case Narrative

http://www.teklabinc.com/

Client: Alpha Analytical
Client Project: L2104295

Work Order: 21011493
Report Date: 02-Feb-21

Cooler Receipt Temp: 0.2 °C

This report was revised on 2/2/2021 per Ashaley Kane's request. The reason for the revision is to update collection information for NPDES-3. Please replace report dated 2/2/21 with this report. MLDII 2/2/21

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Teklab, Inc. Environmental Laboratory

Accreditations

http://www.teklabinc.com/

Client: Alpha Analytical

Client Project: L2104295

Work Order: 21011493

Report Date: 02-Feb-21

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2022	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2021	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2021	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2021	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2021	Collinsville
Arkansas	ADEQ	88-0966		3/14/2021	Collinsville
Illinois	IDPH	17584		5/31/2021	Collinsville
Kentucky	UST	0073		1/31/2021	Collinsville
Missouri	MDNR	00930		5/31/2021	Collinsville
Missouri	MDNR	930		1/31/2022	Collinsville

Teklab, Inc.
Environmental Laboratory

Laboratory Results

http://www.teklabinc.com/

Client: Alpha Analytical
Work Order: 21011493
Client Project: L2104295
Report Date: 02-Feb-21
Lab ID: 21011493-001
Client Sample ID: NPDES-3
Matrix: AQUEOUS
Collection Date: 01/27/2021 9:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 1671A, PHARMACEUTICAL MANUFACTURING INDUSTRY NON-PURGEABLE VOLATILE ORGANICS								
Ethanol	*	20		**ND**	mg/L	1	02/01/2021 17:24	R286958

Teklab, Inc.
Environmental Laboratory

Laboratory Results

http://www.teklabinc.com/

Client: Alpha Analytical
Work Order: 21011493
Client Project: L2104295
Report Date: 02-Feb-21
Lab ID: 21011493-002
Client Sample ID: NPDES-1
Matrix: AQUEOUS
Collection Date: 01/27/2021 14:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 1671A, PHARMACEUTICAL MANUFACTURING INDUSTRY NON-PURGEABLE VOLATILE ORGANICS								
Ethanol	*	20		**ND**	mg/L	1	02/01/2021 18:01	R286958

Teklab, Inc.
Environmental Laboratory

Laboratory Results

http://www.teklabinc.com/

Client: Alpha Analytical
Work Order: 21011493
Client Project: L2104295
Report Date: 02-Feb-21
Lab ID: 21011493-003
Client Sample ID: OF-2
Matrix: AQUEOUS
Collection Date: 01/27/2021 14:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 1671A, PHARMACEUTICAL MANUFACTURING INDUSTRY NON-PURGEABLE VOLATILE ORGANICS								
Ethanol	*	20		**ND**	mg/L	1	02/01/2021 18:38	R286958

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Alpha Analytical
Client Project: L2104295

Work Order: 21011493
Report Date: 02-Feb-21

EPA 600 1671A, PHARMACEUTICAL MANUFACTURING INDUSTRY NON-PURGEABLE VOLATILE ORG

Batch R286958 **SampType:** MBLK Units **mg/L**
SampID: MBLK-020121

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Ethanol	*	20		**ND**						02/01/202

Batch R286958 **SampType:** LCS Units **mg/L**
SampID: LCS-020121

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Ethanol	*	20		**220**	250.0	0	86.9	70	132	02/01/202

Batch R286958 **SampType:** MS Units **mg/L**
SampID: 21011493-003AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Ethanol	*	20		**220**	250.0	0	87.8	70	132	02/01/202

Batch R286958 **SampType:** msd Units **mg/L** RPD Limit **30**
SampID: 21011493-003AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Ethanol	*	20		**220**	250.0	0	86.8	219.4	1.09	02/01/202

Teklab, Inc.
Environmental Laboratory

Receiving Check List

http://www.teklabinc.com/

Client: Alpha Analytical
Client Project: L2104295

Work Order: 21011493
Report Date: 02-Feb-21

Carrier: UPS

Received By: PRY

Completed by: Amanda R. Ham
On: 29-Jan-21

Reviewed by: Marvin L. Darling
On: 29-Jan-21

Pages to follow: Chain of custody 1 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 0.2
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☑	No ☐	No VOA vials ☐
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

ALPHA ANALYTICAL — World Class Chemistry

Subcontract Chain of Custody

Tek Lab, Inc.
5445 Horsehoe Lake Road
Collinsville, IL 62234-7425

Alpha Job Number
L2104295

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 508-439-5132
Email: akane@alphalab.com

Project Information

Project Location: MA
Project Manager: Ashaley Kane

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2104295

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com 0.2°C LTG | Ice OHS 1/29/21 PM4

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
L2104493-001	NPDES-3	01-27-21 09:55	WATER	Ethanol by EPA 1671 Revision A	
-002	NPDES-1	01-27-21 14:10	WATER	Ethanol by EPA 1671 Revision A	
-003	OF-2	01-27-21 14:45	WATER	Ethanol by EPA 1671 Revision A	

Relinquished By:	Date/Time:	Received By:	Date/Time:
CO Telear	1/28/21	[illegible]	1/29/21 0939

Form No: AL_subcoc

ANALYTICAL REPORT

Lab Number:	L2104358
Client:	Sanborn, Head & Associates, Inc. 1 Technology Park Drive Westford, MA 01886
ATTN:	Patrick Malone
Phone:	(978) 392-0900
Project Name:	776 SUMMER STREET
Project Number:	4867.00
Report Date:	02/02/21

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: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2104358-01	NPDES-2	WATER	776 SUMMER ST	01/27/21 16:00	01/27/21

Project Name:	776 SUMMER STREET	**Lab Number:**	L2104358
Project Number:	4867.00	**Report Date:**	02/02/21

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:	776 SUMMER STREET	**Lab Number:**	L2104358
Project Number:	4867.00	**Report Date:**	02/02/21

Case Narrative (continued)

The analysis of Ethanol was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Microextractables

The WG1459641-2 LCS recovery for 1,2-dibromoethane (124%), associated with L2104358-01, is outside Alpha's acceptance criteria, but within the acceptance criteria specified in the method.

Total Metals

L2104358-01: The sample has elevated detection limits for all elements, with the exception of iron and mercury, due to the dilution required by the high concentrations of target and non-target elements.

Dissolved Metals

L2104358-01: The sample has elevated detection limits for all elements, with the exception of iron and mercury, due to the dilution required by the high concentrations of non-target elements.

TPH, SGT-HEM

The WG1460143-4 MS recovery, performed on L2104358-01, is outside the acceptance criteria for tph (60%); however, the associated LCS recovery is within criteria. No further action was taken.

Nitrogen, Ammonia

The WG1459696-4 MS recovery, performed on L2104358-01, is outside the acceptance criteria for nitrogen, ammonia (71%); however, the associated LCS recovery is within criteria. No further action was taken.

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: 02/02/21

ORGANICS

VOLATILES

Project Name: 776 SUMMER STREET
Project Number: 4867.00
Lab Number: L2104358
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104358-01
Client ID: NPDES-2
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 16:00
Date Received: 01/27/21
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 01/30/21 05:00
Analyst: TAB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	1.0	--	1
1,1-Dichloroethane	ND		ug/l	1.5	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.5	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.5	--	1
1,1,1-Trichloroethane	ND		ug/l	2.0	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	5.0	--	1
1,3-Dichlorobenzene	ND		ug/l	5.0	--	1
1,4-Dichlorobenzene	ND		ug/l	5.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
Acetone	ND		ug/l	10	--	1
Methyl tert butyl ether	ND		ug/l	10	--	1
Tert-Butyl Alcohol	ND		ug/l	100	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	20	--	1

Project Name: 776 SUMMER STREET **Lab Number:** L2104358

Project Number: 4867.00 **Report Date:** 02/02/21

SAMPLE RESULTS

Lab ID: L2104358-01 Date Collected: 01/27/21 16:00

Client ID: NPDES-2 Date Received: 01/27/21

Sample Location: 776 SUMMER ST Field Prep: None

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	96		60-140
Fluorobenzene	88		60-140
4-Bromofluorobenzene	94		60-140

Project Name: 776 SUMMER STREET
Project Number: 4867.00
Lab Number: L2104358
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104358-01
Client ID: NPDES-2
Sample Location: 776 SUMMER ST
Date Collected: 01/27/21 16:00
Date Received: 01/27/21
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1-SIM
Analytical Date: 01/30/21 05:00
Analyst: TAB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Fluorobenzene	92		60-140
4-Bromofluorobenzene	105		60-140

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104358-01
Client ID: NPDES-2
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 16:00
Date Received: 01/27/21
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 01/28/21 15:35
Analyst: AMM

Extraction Method: EPA 504.1
Extraction Date: 01/28/21 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Microextractables by GC - Westborough Lab							
1,2-Dibromoethane	ND		ug/l	0.010	--	1	A
1,2-Dibromo-3-chloropropane	ND		ug/l	0.010	--	1	A
1,2,3-Trichloropropane	ND		ug/l	0.029	--	1	A

Project Name: 776 SUMMER STREET
Project Number: 4867.00
Lab Number: L2104358
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 14,504.1
Analytical Date: 01/28/21 14:46
Analyst: AMM

Extraction Method: EPA 504.1
Extraction Date: 01/28/21 13:58

Parameter	Result	Qualifier	Units	RL	MDL	
Microextractables by GC - Westborough Lab for sample(s): 01 Batch: WG1459641-1						
1,2-Dibromoethane	ND		ug/l	0.010	--	A
1,2-Dibromo-3-chloropropane	ND		ug/l	0.010	--	A
1,2,3-Trichloropropane	ND		ug/l	0.030	--	A

Project Name: 776 SUMMER STREET
Project Number: 4867.00
Lab Number: L2104358
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 01/30/21 01:54
Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1460073-10					
Methylene chloride	ND		ug/l	1.0	--
1,1-Dichloroethane	ND		ug/l	1.5	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.5	--
Tetrachloroethene	ND		ug/l	1.0	--
1,2-Dichloroethane	ND		ug/l	1.5	--
1,1,1-Trichloroethane	ND		ug/l	2.0	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Vinyl chloride	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	5.0	--
1,3-Dichlorobenzene	ND		ug/l	5.0	--
1,4-Dichlorobenzene	ND		ug/l	5.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
Acetone	ND		ug/l	10	--
Methyl tert butyl ether	ND		ug/l	10	--
Tert-Butyl Alcohol	ND		ug/l	100	--
Tertiary-Amyl Methyl Ether	ND		ug/l	20	--

Project Name: 776 SUMMER STREET
Project Number: 4867.00
Lab Number: L2104358
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 01/30/21 01:54
Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1460073-10					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	99		60-140
Fluorobenzene	73		60-140
4-Bromofluorobenzene	98		60-140

Project Name: 776 SUMMER STREET
Project Number: 4867.00
Lab Number: L2104358
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1-SIM
Analytical Date: 01/30/21 01:54
Analyst: TAB

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1460667-4					
1,4-Dioxane	ND		ug/l	50	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Fluorobenzene	79		60-140
4-Bromofluorobenzene	106		60-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER STREET

Project Number: 4867.00

Lab Number: L2104358

Report Date: 02/02/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Microextractables by GC - Westborough Lab Associated sample(s): 01 Batch: WG1459641-2									
1,2-Dibromoethane	**124**	Q	-		80-120	-			A
1,2-Dibromo-3-chloropropane	108		-		80-120	-			A
1,2,3-Trichloropropane	107		-		80-120	-			A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER STREET

Project Number: 4867.00

Lab Number: L2104358

Report Date: 02/02/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1460073-9								
Methylene chloride	115		-		60-140	-		28
1,1-Dichloroethane	120		-		50-150	-		49
Carbon tetrachloride	120		-		70-130	-		41
1,1,2-Trichloroethane	110		-		70-130	-		45
Tetrachloroethene	125		-		70-130	-		39
1,2-Dichloroethane	100		-		70-130	-		49
1,1,1-Trichloroethane	110		-		70-130	-		36
Benzene	100		-		65-135	-		61
Toluene	115		-		70-130	-		41
Ethylbenzene	115		-		60-140	-		63
Vinyl chloride	75		-		5-195	-		66
1,1-Dichloroethene	100		-		50-150	-		32
cis-1,2-Dichloroethene	125		-		60-140	-		30
Trichloroethene	90		-		65-135	-		48
1,2-Dichlorobenzene	100		-		65-135	-		57
1,3-Dichlorobenzene	95		-		70-130	-		43
1,4-Dichlorobenzene	100		-		65-135	-		57
p/m-Xylene	112		-		60-140	-		30
o-xylene	105		-		60-140	-		30
Acetone	94		-		40-160	-		30
Methyl tert butyl ether	95		-		60-140	-		30
Tert-Butyl Alcohol	120		-		60-140	-		30
Tertiary-Amyl Methyl Ether	80		-		60-140	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1460073-9								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	116				60-140
Fluorobenzene	89				60-140
4-Bromofluorobenzene	97				60-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1460667-3								
1,4-Dioxane	99		-		60-140	-		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Fluorobenzene	93				60-140
4-Bromofluorobenzene	105				60-140

Matrix Spike Analysis

Batch Quality Control

Project Name: 776 SUMMER STREET

Project Number: 4867.00

Lab Number: L2104358

Report Date: 02/02/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Microextractables by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1459641-3 QC Sample: L2103953-01 Client ID: MS Sample													
1,2-Dibromoethane	ND	0.25	0.277	111		-	-		80-120	-		20	A
1,2-Dibromo-3-chloropropane	ND	0.25	0.265	106		-	-		80-120	-		20	A
1,2,3-Trichloropropane	ND	0.25	0.248	99		-	-		80-120	-		20	A

SEMIVOLATILES

Project Name: 776 SUMMER STREET
Project Number: 4867.00
Lab Number: L2104358
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104358-01
Client ID: NPDES-2
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 16:00
Date Received: 01/27/21
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 129,625.1
Analytical Date: 01/30/21 10:41
Analyst: SZ

Extraction Method: EPA 625.1
Extraction Date: 01/28/21 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-ethylhexyl)phthalate	ND		ug/l	2.20	--	1
Butyl benzyl phthalate	ND		ug/l	5.00	--	1
Di-n-butylphthalate	ND		ug/l	5.00	--	1
Di-n-octylphthalate	ND		ug/l	5.00	--	1
Diethyl phthalate	ND		ug/l	5.00	--	1
Dimethyl phthalate	ND		ug/l	5.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	91		42-122
2-Fluorobiphenyl	90		46-121
4-Terphenyl-d14	93		47-138

Project Name: 776 SUMMER STREET
Project Number: 4867.00
Lab Number: L2104358
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104358-01
Client ID: NPDES-2
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 16:00
Date Received: 01/27/21
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 129,625.1-SIM
Analytical Date: 01/30/21 14:12
Analyst: JJW

Extraction Method: EPA 625.1
Extraction Date: 01/28/21 15:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.100	--	1
Fluoranthene	ND		ug/l	0.100	--	1
Naphthalene	ND		ug/l	0.100	--	1
Benzo(a)anthracene	ND		ug/l	0.100	--	1
Benzo(a)pyrene	ND		ug/l	0.100	--	1
Benzo(b)fluoranthene	ND		ug/l	0.100	--	1
Benzo(k)fluoranthene	ND		ug/l	0.100	--	1
Chrysene	ND		ug/l	0.100	--	1
Acenaphthylene	ND		ug/l	0.100	--	1
Anthracene	ND		ug/l	0.100	--	1
Benzo(ghi)perylene	ND		ug/l	0.100	--	1
Fluorene	ND		ug/l	0.100	--	1
Phenanthrene	ND		ug/l	0.100	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.100	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.100	--	1
Pyrene	ND		ug/l	0.100	--	1
Pentachlorophenol	ND		ug/l	1.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-87
Phenol-d6	54		16-65
Nitrobenzene-d5	96		42-122
2-Fluorobiphenyl	90		46-121
2,4,6-Tribromophenol	107		45-128
4-Terphenyl-d14	107		47-138

Project Name: 776 SUMMER STREET
Project Number: 4867.00
Lab Number: L2104358
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1
Analytical Date: 01/28/21 16:41
Analyst: SZ

Extraction Method: EPA 625.1
Extraction Date: 01/28/21 04:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1459475-1					
Bis(2-ethylhexyl)phthalate	ND		ug/l	2.20	--
Butyl benzyl phthalate	ND		ug/l	5.00	--
Di-n-butylphthalate	ND		ug/l	5.00	--
Di-n-octylphthalate	ND		ug/l	5.00	--
Diethyl phthalate	ND		ug/l	5.00	--
Dimethyl phthalate	ND		ug/l	5.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	81		42-122
2-Fluorobiphenyl	77		46-121
4-Terphenyl-d14	76		47-138

Project Name: 776 SUMMER STREET
Project Number: 4867.00
Lab Number: L2104358
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1-SIM
Analytical Date: 01/29/21 18:15
Analyst: DV

Extraction Method: EPA 625.1
Extraction Date: 01/28/21 07:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1459544-1					
Acenaphthene	ND		ug/l	0.100	--
Fluoranthene	ND		ug/l	0.100	--
Naphthalene	ND		ug/l	0.100	--
Benzo(a)anthracene	ND		ug/l	0.100	--
Benzo(a)pyrene	ND		ug/l	0.100	--
Benzo(b)fluoranthene	ND		ug/l	0.100	--
Benzo(k)fluoranthene	ND		ug/l	0.100	--
Chrysene	ND		ug/l	0.100	--
Acenaphthylene	ND		ug/l	0.100	--
Anthracene	ND		ug/l	0.100	--
Benzo(ghi)perylene	ND		ug/l	0.100	--
Fluorene	ND		ug/l	0.100	--
Phenanthrene	ND		ug/l	0.100	--
Dibenzo(a,h)anthracene	ND		ug/l	0.100	--
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.100	--
Pyrene	ND		ug/l	0.100	--
Pentachlorophenol	ND		ug/l	1.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		25-87
Phenol-d6	29		16-65
Nitrobenzene-d5	64		42-122
2-Fluorobiphenyl	69		46-121
2,4,6-Tribromophenol	90		45-128
4-Terphenyl-d14	87		47-138

Lab Control Sample Analysis
Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

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: WG1459475-3								
Bis(2-ethylhexyl)phthalate	87		-		29-137	-		82
Butyl benzyl phthalate	80		-		1-140	-		60
Di-n-butylphthalate	78		-		8-120	-		47
Di-n-octylphthalate	83		-		19-132	-		69
Diethyl phthalate	75		-		1-120	-		100
Dimethyl phthalate	79		-		1-120	-		183

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	80				42-122
2-Fluorobiphenyl	72				46-121
4-Terphenyl-d14	68				47-138

Lab Control Sample Analysis
Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

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: WG1459544-3								
Acenaphthene	77		-		60-132	-		30
Fluoranthene	85		-		43-121	-		30
Naphthalene	73		-		36-120	-		30
Benzo(a)anthracene	79		-		42-133	-		30
Benzo(a)pyrene	72		-		32-148	-		30
Benzo(b)fluoranthene	81		-		42-140	-		30
Benzo(k)fluoranthene	80		-		25-146	-		30
Chrysene	80		-		44-140	-		30
Acenaphthylene	83		-		54-126	-		30
Anthracene	78		-		43-120	-		30
Benzo(ghi)perylene	76		-		1-195	-		30
Fluorene	80		-		70-120	-		30
Phenanthrene	76		-		65-120	-		30
Dibenzo(a,h)anthracene	80		-		1-200	-		30
Indeno(1,2,3-cd)pyrene	84		-		1-151	-		30
Pyrene	85		-		70-120	-		30
Pentachlorophenol	77		-		38-152	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

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: WG1459544-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	47				25-87
Phenol-d6	33				16-65
Nitrobenzene-d5	72				42-122
2-Fluorobiphenyl	77				46-121
2,4,6-Tribromophenol	96				45-128
4-Terphenyl-d14	87				47-138

PCBS

Project Name: 776 SUMMER STREET
Project Number: 4867.00
Lab Number: L2104358
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104358-01
Client ID: NPDES-2
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 16:00
Date Received: 01/27/21
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 127,608.3
Analytical Date: 01/30/21 10:06
Analyst: JM

Extraction Method: EPA 608.3
Extraction Date: 01/29/21 05:54
Cleanup Method: EPA 3665A
Cleanup Date: 01/29/21
Cleanup Method: EPA 3660B
Cleanup Date: 01/29/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.250	--	1	A
Aroclor 1221	ND		ug/l	0.250	--	1	A
Aroclor 1232	ND		ug/l	0.250	--	1	A
Aroclor 1242	ND		ug/l	0.250	--	1	A
Aroclor 1248	ND		ug/l	0.250	--	1	A
Aroclor 1254	ND		ug/l	0.250	--	1	A
Aroclor 1260	ND		ug/l	0.200	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		37-123	B
Decachlorobiphenyl	91		38-114	B
2,4,5,6-Tetrachloro-m-xylene	74		37-123	A
Decachlorobiphenyl	71		38-114	A

Project Name: 776 SUMMER STREET
Project Number: 4867.00
Lab Number: L2104358
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 127,608.3
Analytical Date: 01/30/21 09:06
Analyst: JM

Extraction Method: EPA 608.3
Extraction Date: 01/29/21 05:54
Cleanup Method: EPA 3665A
Cleanup Date: 01/29/21
Cleanup Method: EPA 3660B
Cleanup Date: 01/29/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1459904-1						
Aroclor 1016	ND		ug/l	0.250	--	A
Aroclor 1221	ND		ug/l	0.250	--	A
Aroclor 1232	ND		ug/l	0.250	--	A
Aroclor 1242	ND		ug/l	0.250	--	A
Aroclor 1248	ND		ug/l	0.250	--	A
Aroclor 1254	ND		ug/l	0.250	--	A
Aroclor 1260	ND		ug/l	0.200	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		37-123	B
Decachlorobiphenyl	87		38-114	B
2,4,5,6-Tetrachloro-m-xylene	75		37-123	A
Decachlorobiphenyl	66		38-114	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1459904-2									
Aroclor 1016	74		-		50-140	-		36	A
Aroclor 1260	66		-		8-140	-		38	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77				37-123	B
Decachlorobiphenyl	74				38-114	B
2,4,5,6-Tetrachloro-m-xylene	66				37-123	A
Decachlorobiphenyl	57				38-114	A

METALS

Project Name: 776 SUMMER STREET
Project Number: 4867.00
Lab Number: L2104358
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104358-01
Client ID: NPDES-2
Sample Location: 776 SUMMER ST
Sample Depth:
Matrix: Water

Date Collected: 01/27/21 16:00
Date Received: 01/27/21
Field Prep: None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.04000	--	10	01/28/21 14:04	02/01/21 13:12	EPA 3005A	3,200.8	AM
Arsenic, Total	0.01008		mg/l	0.01000	--	10	01/28/21 14:04	02/02/21 10:57	EPA 3005A	3,200.8	AM
Cadmium, Total	ND		mg/l	0.00200	--	10	01/28/21 14:04	02/01/21 13:12	EPA 3005A	3,200.8	AM
Chromium, Total	ND		mg/l	0.01000	--	10	01/28/21 14:04	02/01/21 13:12	EPA 3005A	3,200.8	AM
Copper, Total	ND		mg/l	0.01000	--	10	01/28/21 14:04	02/01/21 13:12	EPA 3005A	3,200.8	AM
Iron, Total	0.191		mg/l	0.050	--	1	01/28/21 14:04	02/02/21 12:02	EPA 3005A	19,200.7	GD
Lead, Total	ND		mg/l	0.01000	--	10	01/28/21 14:04	02/01/21 13:12	EPA 3005A	3,200.8	AM
Mercury, Total	ND		mg/l	0.00020	--	1	01/28/21 15:06	01/29/21 10:39	EPA 245.1	3,245.1	VW
Nickel, Total	ND		mg/l	0.02000	--	10	01/28/21 14:04	02/01/21 13:12	EPA 3005A	3,200.8	AM
Selenium, Total	ND		mg/l	0.05000	--	10	01/28/21 14:04	02/01/21 13:12	EPA 3005A	3,200.8	AM
Silver, Total	ND		mg/l	0.00400	--	10	01/28/21 14:04	02/01/21 13:12	EPA 3005A	3,200.8	AM
Zinc, Total	ND		mg/l	0.1000	--	10	01/28/21 14:04	02/01/21 13:12	EPA 3005A	3,200.8	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	--	1		02/01/21 13:12	NA	107,-	
Dissolved Metals - Mansfield Lab											
Antimony, Dissolved	ND		mg/l	0.0400	--	10	01/29/21 05:55	02/01/21 08:11	EPA 3005A	3,200.8	AM
Arsenic, Dissolved	ND		mg/l	0.0100	--	10	01/29/21 05:55	02/01/21 08:11	EPA 3005A	3,200.8	AM
Cadmium, Dissolved	ND		mg/l	0.0020	--	10	01/29/21 05:55	02/01/21 08:11	EPA 3005A	3,200.8	AM
Chromium, Dissolved	ND		mg/l	0.0100	--	10	01/29/21 05:55	02/01/21 08:11	EPA 3005A	3,200.8	AM
Copper, Dissolved	ND		mg/l	0.0100	--	10	01/29/21 05:55	02/01/21 08:11	EPA 3005A	3,200.8	AM
Iron, Dissolved	ND		mg/l	0.050	--	1	01/29/21 05:55	02/01/21 07:57	EPA 3005A	19,200.7	GD
Lead, Dissolved	ND		mg/l	0.0100	--	10	01/29/21 05:55	02/01/21 08:11	EPA 3005A	3,200.8	AM
Mercury, Dissolved	ND		mg/l	0.00020	--	1	01/29/21 06:44	01/29/21 10:59	EPA 245.1	3,245.1	VW
Nickel, Dissolved	ND		mg/l	0.0200	--	10	01/29/21 05:55	02/01/21 08:11	EPA 3005A	3,200.8	AM
Selenium, Dissolved	ND		mg/l	0.0500	--	10	01/29/21 05:55	02/01/21 08:11	EPA 3005A	3,200.8	AM
Silver, Dissolved	ND		mg/l	0.0040	--	10	01/29/21 05:55	02/01/21 08:11	EPA 3005A	3,200.8	AM
Zinc, Dissolved	ND		mg/l	0.1000	--	10	01/29/21 05:55	02/01/21 08:11	EPA 3005A	3,200.8	AM

Project Name: 776 SUMMER STREET **Lab Number:** L2104358

Project Number: 4867.00 **Report Date:** 02/02/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01 Batch: WG1459635-1										
Iron, Dissolved	ND		mg/l	0.050	--	1	01/29/21 05:55	02/01/21 07:44	19,200.7	GD

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01 Batch: WG1459636-1										
Antimony, Dissolved	ND		mg/l	0.0040	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Arsenic, Dissolved	ND		mg/l	0.0010	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Cadmium, Dissolved	ND		mg/l	0.0002	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Chromium, Dissolved	ND		mg/l	0.0010	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Copper, Dissolved	ND		mg/l	0.0010	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Lead, Dissolved	ND		mg/l	0.0010	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Nickel, Dissolved	ND		mg/l	0.0020	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Selenium, Dissolved	ND		mg/l	0.0050	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Silver, Dissolved	ND		mg/l	0.0004	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD
Zinc, Dissolved	ND		mg/l	0.0100	--	1	01/29/21 05:55	01/29/21 14:48	3,200.8	CD

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01 Batch: WG1459637-1										
Mercury, Dissolved	ND		mg/l	0.00020	--	1	01/29/21 06:44	01/29/21 10:42	3,245.1	VW

Prep Information

Digestion Method: EPA 245.1

Project Name: 776 SUMMER STREET **Lab Number:** L2104358

Project Number: 4867.00 **Report Date:** 02/02/21

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: WG1459640-1										
Iron, Total	ND		mg/l	0.050	--	1	01/28/21 14:04	02/02/21 10:19	19,200.7	GD

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: WG1459650-1										
Antimony, Total	ND		mg/l	0.00400	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Arsenic, Total	ND		mg/l	0.00100	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Cadmium, Total	ND		mg/l	0.00020	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Chromium, Total	ND		mg/l	0.00100	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Copper, Total	ND		mg/l	0.00100	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Lead, Total	ND		mg/l	0.00100	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Nickel, Total	ND		mg/l	0.00200	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Selenium, Total	ND		mg/l	0.00500	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Silver, Total	ND		mg/l	0.00040	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	AM
Zinc, Total	ND		mg/l	0.01000	--	1	01/28/21 14:04	02/01/21 11:22	3,200.8	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: WG1459651-1										
Mercury, Total	ND		mg/l	0.00020	--	1	01/28/21 15:06	01/29/21 09:12	3,245.1	VW

Prep Information

Digestion Method: EPA 245.1

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1459635-2								
Iron, Dissolved	102		-		85-115	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1459636-2								
Antimony, Dissolved	94		-		85-115	-		
Arsenic, Dissolved	104		-		85-115	-		
Cadmium, Dissolved	107		-		85-115	-		
Chromium, Dissolved	95		-		85-115	-		
Copper, Dissolved	100		-		85-115	-		
Lead, Dissolved	105		-		85-115	-		
Nickel, Dissolved	94		-		85-115	-		
Selenium, Dissolved	105		-		85-115	-		
Silver, Dissolved	100		-		85-115	-		
Zinc, Dissolved	106		-		85-115	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1459637-2								
Mercury, Dissolved	102		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1459640-2								
Iron, Total	99		-		85-115	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1459650-2					
Antimony, Total	90	-	85-115	-	
Arsenic, Total	103	-	85-115	-	
Cadmium, Total	104	-	85-115	-	
Chromium, Total	93	-	85-115	-	
Copper, Total	99	-	85-115	-	
Lead, Total	103	-	85-115	-	
Nickel, Total	92	-	85-115	-	
Selenium, Total	106	-	85-115	-	
Silver, Total	98	-	85-115	-	
Zinc, Total	106	-	85-115	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1459651-2					
Mercury, Total	100	-	85-115	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1459635-3 QC Sample: L2104295-02 Client ID: MS Sample												
Iron, Dissolved	ND	2	1.84	92		-	-		75-125	-		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1459636-3 QC Sample: L2104295-02 Client ID: MS Sample												
Antimony, Dissolved	ND	1	0.9880	99		-	-		70-130	-		20
Arsenic, Dissolved	ND	0.24	0.2237	93		-	-		70-130	-		20
Cadmium, Dissolved	ND	0.102	0.0994	97		-	-		70-130	-		20
Chromium, Dissolved	ND	0.4	0.3574	89		-	-		70-130	-		20
Copper, Dissolved	ND	0.5	0.5006	100		-	-		70-130	-		20
Lead, Dissolved	ND	1.02	1.148	112		-	-		70-130	-		20
Nickel, Dissolved	ND	1	0.9723	97		-	-		70-130	-		20
Selenium, Dissolved	ND	0.24	0.1027	**43**	Q	-	-		70-130	-		20
Silver, Dissolved	ND	0.1	0.0930	93		-	-		70-130	-		20
Zinc, Dissolved	ND	1	0.9338	93		-	-		70-130	-		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1459637-3 QC Sample: L2104295-02 Client ID: MS Sample												
Mercury, Dissolved	ND	0.025	0.02396	96		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1459640-3 QC Sample: L2104295-01 Client ID: MS Sample												
Iron, Total	0.054	1	1.05	100		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

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: WG1459650-3 QC Sample: L2104295-01 Client ID: MS Sample									
Antimony, Total	ND	0.5	0.4660	93	-	-	70-130	-	20
Arsenic, Total	ND	0.12	0.1232	103	-	-	70-130	-	20
Cadmium, Total	ND	0.051	0.05437	107	-	-	70-130	-	20
Chromium, Total	ND	0.2	0.1890	94	-	-	70-130	-	20
Copper, Total	0.00134	0.25	0.2522	100	-	-	70-130	-	20
Lead, Total	ND	0.51	0.5435	106	-	-	70-130	-	20
Nickel, Total	ND	0.5	0.4718	94	-	-	70-130	-	20
Selenium, Total	ND	0.12	0.1218	102	-	-	70-130	-	20
Silver, Total	ND	0.05	0.05015	100	-	-	70-130	-	20
Zinc, Total	ND	0.5	0.5313	106	-	-	70-130	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1459650-5 QC Sample: L2104279-02 Client ID: MS Sample									
Antimony, Total	ND	0.5	0.4581	92	-	-	70-130	-	20
Arsenic, Total	ND	0.12	0.1232	103	-	-	70-130	-	20
Cadmium, Total	ND	0.051	0.05429	106	-	-	70-130	-	20
Chromium, Total	ND	0.2	0.1901	95	-	-	70-130	-	20
Copper, Total	0.01400	0.25	0.2558	97	-	-	70-130	-	20
Lead, Total	0.00225	0.51	0.5516	108	-	-	70-130	-	20
Nickel, Total	ND	0.5	0.4727	94	-	-	70-130	-	20
Selenium, Total	ND	0.12	0.1118	93	-	-	70-130	-	20
Silver, Total	ND	0.05	0.05051	101	-	-	70-130	-	20
Zinc, Total	0.02464	0.5	0.5355	102	-	-	70-130	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

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: WG1459651-3 QC Sample: L2104346-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00477	95	-	-	70-130	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1459651-5 QC Sample: L2104346-02 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00466	93	-	-	70-130	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1459635-4 QC Sample: L2104295-02 Client ID: DUP Sample						
Iron, Dissolved	ND	ND	mg/l	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1459636-4 QC Sample: L2104295-02 Client ID: DUP Sample						
Antimony, Dissolved	ND	ND	mg/l	NC		20
Arsenic, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Chromium, Dissolved	ND	ND	mg/l	NC		20
Copper, Dissolved	ND	ND	mg/l	NC		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Nickel, Dissolved	ND	ND	mg/l	NC		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Zinc, Dissolved	ND	ND	mg/l	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1459637-4 QC Sample: L2104295-02 Client ID: DUP Sample						
Mercury, Dissolved	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1459640-4 QC Sample: L2104295-01 Client ID: DUP Sample						
Iron, Total	0.054	0.057	mg/l	5		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1459650-4 QC Sample: L2104295-01 Client ID: DUP Sample					
Antimony, Total	ND	ND	mg/l	NC	20
Arsenic, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Copper, Total	0.00134	0.00123	mg/l	8	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
Silver, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1459650-6 QC Sample: L2104279-02 Client ID: DUP Sample					
Antimony, Total	ND	ND	mg/l	NC	20
Arsenic, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Copper, Total	0.01400	0.01464	mg/l	4	20
Lead, Total	0.00225	0.00235	mg/l	4	20
Nickel, Total	ND	ND	mg/l	NC	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Zinc, Total	0.02464	0.02517	mg/l	2	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1459651-4 QC Sample: L2104346-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1459651-6 QC Sample: L2104346-02 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

SAMPLE RESULTS

Lab ID: L2104358-01
Client ID: NPDES-2
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 16:00
Date Received: 01/27/21
Field Prep: None

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	23.		mg/l	5.0	NA	1	-	01/28/21 14:30	121,2540D	AC
Cyanide, Total	ND		mg/l	0.005	--	1	01/28/21 10:15	01/28/21 12:50	121,4500CN-CE	CR
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	01/27/21 22:56	121,4500CL-D	QW
Nitrogen, Ammonia	0.116		mg/l	0.075	--	1	01/28/21 13:00	01/28/21 22:47	121,4500NH3-BH	AT
TPH, SGT-HEM	ND		mg/l	4.00	--	1	01/29/21 19:30	01/29/21 20:30	74,1664A	TL
Phenolics, Total	ND		mg/l	0.030	--	1	01/28/21 07:02	01/28/21 11:00	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	--	1	01/28/21 06:10	01/28/21 07:02	1,7196A	AW
Anions by Ion Chromatography - Westborough Lab										
Chloride	18900		mg/l	250	--	500	-	01/29/21 02:22	44,300.0	AT

Project Name: 776 SUMMER STREET
Project Number: 4867.00
Lab Number: L2104358
Report Date: 02/02/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1459414-1										
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	01/27/21 22:56	121,4500CL-D	QW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1459502-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	01/28/21 06:10	01/28/21 07:01	1,7196A	AW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1459510-1										
Phenolics, Total	ND		mg/l	0.030	--	1	01/28/21 07:02	01/28/21 10:50	4,420.1	KP
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1459573-1										
Cyanide, Total	ND		mg/l	0.005	--	1	01/28/21 10:15	01/28/21 12:30	121,4500CN-CE	CR
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1459576-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	01/28/21 14:30	121,2540D	AC
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1459696-1										
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	01/28/21 13:00	01/28/21 22:44	121,4500NH3-BH	AT
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG1459861-1										
Chloride	ND		mg/l	0.500	--	1	-	01/28/21 17:18	44,300.0	AT
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1460143-1										
TPH, SGT-HEM	ND		mg/l	4.00	--	1	01/29/21 19:30	01/29/21 20:30	74,1664A	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1459414-2								
Chlorine, Total Residual	108		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1459502-2								
Chromium, Hexavalent	101		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1459510-2								
Phenolics, Total	92		-		70-130	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1459573-2								
Cyanide, Total	92		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1459576-2								
Solids, Total Suspended	98		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1459696-2								
Nitrogen, Ammonia	92		-		80-120	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG1459861-2								
Chloride	107		-		90-110	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1460143-2					
TPH	82	-	64-132	-	34

Matrix Spike Analysis
Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1459414-4 QC Sample: L2104295-02 Client ID: MS Sample												
Chlorine, Total Residual	ND	0.25	0.25	100		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1459502-4 QC Sample: L2104358-01 Client ID: NPDES-2												
Chromium, Hexavalent	ND	0.1	0.105	105		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1459510-4 QC Sample: L2104358-01 Client ID: NPDES-2												
Phenolics, Total	ND	0.4	0.38	96		-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1459573-4 QC Sample: L2104295-02 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.199	100		-	-		90-110	-		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1459696-4 QC Sample: L2104358-01 Client ID: NPDES-2												
Nitrogen, Ammonia	0.116	4	2.95	**71**	Q	-	-		80-120	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1459861-3 QC Sample: L2104130-04 Client ID: MS Sample												
Chloride	ND	4	4.10	103		-	-		90-110	-		18
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1460143-4 QC Sample: L2104358-01 Client ID: NPDES-2												
TPH	ND	20	12.1	**60**	Q	-	-		64-132	-		34

Lab Duplicate Analysis
Batch Quality Control

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1459414-3 QC Sample: L2104295-01 Client ID: DUP Sample						
Chlorine, Total Residual	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1459502-3 QC Sample: L2104358-01 Client ID: NPDES-2						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1459510-3 QC Sample: L2104358-01 Client ID: NPDES-2						
Phenolics, Total	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1459573-3 QC Sample: L2104295-01 Client ID: DUP Sample						
Cyanide, Total	ND	ND	mg/l	NC		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1459576-3 QC Sample: L2104120-01 Client ID: DUP Sample						
Solids, Total Suspended	430	450	mg/l	5		29
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1459696-3 QC Sample: L2104358-01 Client ID: NPDES-2						
Nitrogen, Ammonia	0.116	0.100	mg/l	15		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1459861-4 QC Sample: L2104130-04 Client ID: DUP Sample						
Chloride	ND	ND	mg/l	NC		18
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1460143-3 QC Sample: L2104344-01 Client ID: DUP Sample						
TPH	ND	ND	mg/l	NC		34

Project Name: 776 SUMMER STREET
Project Number: 4867.00

Lab Number: L2104358
Report Date: 02/02/21

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(*)
L2104358-01A	Vial Na2S2O3 preserved	A	NA		3.7	Y	Absent		624.1-SIM-RGP(7),624.1-RGP(7)
L2104358-01A1	Vial Na2S2O3 preserved	A	NA		3.7	Y	Absent		624.1-SIM-RGP(7),624.1-RGP(7)
L2104358-01B	Vial Na2S2O3 preserved	A	NA		3.7	Y	Absent		624.1-SIM-RGP(7),624.1-RGP(7)
L2104358-01B1	Vial Na2S2O3 preserved	A	NA		3.7	Y	Absent		624.1-SIM-RGP(7),624.1-RGP(7)
L2104358-01C	Vial Na2S2O3 preserved	A	NA		3.7	Y	Absent		624.1-SIM-RGP(7),624.1-RGP(7)
L2104358-01C1	Vial Na2S2O3 preserved	A	NA		3.7	Y	Absent		624.1-SIM-RGP(7),624.1-RGP(7)
L2104358-01D	Vial Na2S2O3 preserved	A	NA		3.7	Y	Absent		504(14)
L2104358-01E	Vial Na2S2O3 preserved	A	NA		3.7	Y	Absent		504(14)
L2104358-01F	Vial unpreserved	A	NA		3.7	Y	Absent		SUB-ETHANOL(14)
L2104358-01G	Vial unpreserved	A	NA		3.7	Y	Absent		SUB-ETHANOL(14)
L2104358-01H	Vial unpreserved	A	NA		3.7	Y	Absent		SUB-ETHANOL(14)
L2104358-01I	Plastic 250ml NaOH preserved	A	>12	>12	3.7	Y	Absent		TCN-4500(14)
L2104358-01J	Plastic 250ml HNO3 preserved	A	<2	<2	3.7	Y	Absent		CD-2008T(180),NI-2008T(180),ZN-2008T(180),FE-UI(180),CU-2008T(180),ZN-2008S(180),HG-U(28),AG-2008T(180),AS-2008T(180),SE-2008T(180),SE-2008S(180),SB-2008S(180),PB-2008T(180),CR-2008T(180),SB-2008T(180)
L2104358-01K	Plastic 500ml H2SO4 preserved	A	<2	<2	3.7	Y	Absent		NH3-4500(28)
L2104358-01L	Plastic 950ml unpreserved	A	7	7	3.7	Y	Absent		CL-300(28),HEXCR-7196(1),TRC-4500(1)
L2104358-01M	Plastic 950ml unpreserved	A	7	7	3.7	Y	Absent		TSS-2540(7)
L2104358-01N	Amber 950ml H2SO4 preserved	A	<2	<2	3.7	Y	Absent		TPHENOL-420(28)
L2104358-01O	Amber 1000ml unpreserved	A	7	7	3.7	Y	Absent		-
L2104358-01P	Amber 1000ml Na2S2O3	A	7	7	3.7	Y	Absent		PCB-608.3(365)
L2104358-01Q	Amber 1000ml Na2S2O3	A	7	7	3.7	Y	Absent		PCB-608.3(365)
L2104358-01R	Amber 1000ml Na2S2O3	A	7	7	3.7	Y	Absent		625.1-RGP(7)

*Values in parentheses indicate holding time in days

Project Name: 776 SUMMER STREET
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Report Date: 02/02/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2104358-01S	Amber 1000ml Na2S2O3	A	7	7	3.7	Y	Absent		625.1-RGP(7)
L2104358-01T	Amber 1000ml Na2S2O3	A	7	7	3.7	Y	Absent		625.1-SIM-RGP(7)
L2104358-01U	Amber 1000ml Na2S2O3	A	7	7	3.7	Y	Absent		625.1-SIM-RGP(7)
L2104358-01V	Amber 1000ml HCl preserved	A	NA		3.7	Y	Absent		TPH-1664(28)
L2104358-01W	Amber 1000ml HCl preserved	A	NA		3.7	Y	Absent		TPH-1664(28)
L2104358-01X	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.7	Y	Absent		CR-2008S(180),AG-2008S(180),FE-RI(180),AS-2008S(180),PB-2008S(180),NI-2008S(180),CU-2008S(180),CD-2008S(180),HG-R(28)

*Values in parentheses indicate holding time in days

Project Name:	776 SUMMER STREET	**Lab Number:**	L2104358
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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: Data Usability Report

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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. 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 reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report

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Data Qualifiers

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.

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Project Name:	776 SUMMER STREET	**Lab Number:**	L2104358
Project Number:	4867.00	**Report Date:**	02/02/21

REFERENCES

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

3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

14 Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. EPA/600/4-88/039, Revised July 1991.

19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

74 Method 1664,Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.

107 Alpha Analytical - In-house calculation method.

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

127 Method 608.3: Organochlorine Pesticides and PCBs by GC/HSD, EPA 821-R-16-009, December 2016.

128 Method 624.1: Purgeables by GC/MS, EPA 821-R-16-008, December 2016.

129 Method 625.1: Base/Neutrals and Acids by GC/MS, EPA 821-R-16-007, December 2016.

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.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab: 1/27/21

ALPHA Job #: L2104358

Client Information

Client: Sanborn Head

Address: 98 N Washington St Suite 101, Boston, MA 02114

Phone:

Email: pmalone@sanbornhead.com

Project Information

Project Name: 776 Summer Street

Project Location: 776 Summer st

Project #: 4867.00

Project Manager: Pat Malone

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☒ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:

* Dissolved metals samples in an unpreserved amber and has NOT been filtered

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC: ☐ 8260 ☐ 624 ☐ 524.2	SVOC: ☐ ABN ☐ PAH	METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15	METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13	EPH: ☐ Ranges & Targets ☐ Ranges Only	VPH: ☐ Ranges & Targets ☐ Ranges Only	☐ PCB ☐ PEST	TPH: ☐ Quant Only ☐ Fingerprint	NPDES RGP	NPDES RGP Dissolved Metals	SAMPLE INFO (Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do)	Sample Comments	TOTAL # BOTTLES
04358-01	NPDES - 2	1/27/21	16:00	W	LAA									X	X		* See notes	

Container Type
Preservative

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
	1/27/21 17:13		
	1/27/21 18:16	AAL	1/27/21 1816

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

ALPHA ANALYTICAL
World Class Chemistry

Subcontract Chain of Custody

Tek Lab, Inc.
5445 Horsehoe Lake Road
Collinsville, IL 62234-7425

Alpha Job Number
L2104358

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 508-439-5132
Email: akane@alphalab.com

Project Information

Project Location: MA
Project Manager: Ashaley Kane

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2104358

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	NPDES-2	01-27-21 16:00	WATER	Ethanol by EPA 1671 Revision A	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
	[signature]	1/28/21		
Form No: AL_subcoc				

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

February 02, 2021

Ashaley Kane
Alpha Analytical
145 Flanders Road
Westborough, MA 01581
TEL: (508) 439-5132
FAX:

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: L2104358 **WorkOrder:** 21011492

Dear Ashaley Kane:

TEKLAB, INC received 1 sample on 1/29/2021 9:39:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Marvin L. Darling II

Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com

Teklab, Inc.
Environmental Laboratory

Report Contents

http://www.teklabinc.com/

Client: Alpha Analytical
Work Order: 21011492
Client Project: L2104358
Report Date: 02-Feb-21

This reporting package includes the following:

Teklab, Inc.
Environmental Laboratory

Definitions

http://www.teklabinc.com/

Client: Alpha Analytical **Work Order:** 21011492

Client Project: L2104358 **Report Date:** 02-Feb-21

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Teklab, Inc.
Environmental Laboratory

Definitions

http://www.teklabinc.com/

Client: Alpha Analytical

Work Order: 21011492

Client Project: L2104358

Report Date: 02-Feb-21

Qualifiers

- Unknown hydrocarbon

B - Analyte detected in associated Method Blank

C - RL shown is a Client Requested Quantitation Limit

E - Value above quantitation range

H - Holding times exceeded

I - Associated internal standard was outside method criteria

J - Analyte detected below quantitation limits

M - Manual Integration used to determine area response

ND - Not Detected at the Reporting Limit

R - RPD outside accepted recovery limits

S - Spike Recovery outside recovery limits

T - TIC(Tentatively identified compound)

X - Value exceeds Maximum Contaminant Level

Teklab, Inc.
Environmental Laboratory

Case Narrative

http://www.teklabinc.com/

Client: Alpha Analytical
Client Project: L2104358

Work Order: 21011492
Report Date: 02-Feb-21

Cooler Receipt Temp: 0.2 °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Teklab, Inc. Environmental Laboratory

Accreditations

http://www.teklabinc.com/

Client: Alpha Analytical

Client Project: L2104358

Work Order: 21011492

Report Date: 02-Feb-21

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2022	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2021	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2021	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2021	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2021	Collinsville
Arkansas	ADEQ	88-0966		3/14/2021	Collinsville
Illinois	IDPH	17584		5/31/2021	Collinsville
Kentucky	UST	0073		1/31/2021	Collinsville
Missouri	MDNR	00930		5/31/2021	Collinsville
Missouri	MDNR	930		1/31/2022	Collinsville

Teklab, Inc.
Environmental Laboratory

Laboratory Results

http://www.teklabinc.com/

Client: Alpha Analytical
Work Order: 21011492
Client Project: L2104358
Report Date: 02-Feb-21
Lab ID: 21011492-001
Client Sample ID: NPDES-2
Matrix: AQUEOUS
Collection Date: 01/27/2021 16:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 1671A, PHARMACEUTICAL MANUFACTURING INDUSTRY NON-PURGEABLE VOLATILE ORGANICS								
Ethanol	*	20		**ND**	mg/L	1	02/01/2021 16:47	R286958

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Alpha Analytical
Client Project: L2104358

Work Order: 21011492
Report Date: 02-Feb-21

EPA 600 1671A, PHARMACEUTICAL MANUFACTURING INDUSTRY NON-PURGEABLE VOLATILE ORG

Batch R286958 **SampType:** MBLK Units **mg/L**
SampID: MBLK-020121

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Ethanol	*	20		**ND**						02/01/202

Batch R286958 **SampType:** LCS Units **mg/L**
SampID: LCS-020121

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Ethanol	*	20		**220**	250.0	0	86.9	70	132	02/01/202

Batch R286958 **SampType:** MS Units **mg/L**
SampID: 21011493-003AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Ethanol	*	20		**220**	250.0	0	87.8	70	132	02/01/202

Batch R286958 **SampType:** msd Units **mg/L** RPD Limit **30**
SampID: 21011493-003AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Ethanol	*	20		**220**	250.0	0	86.8	219.4	1.09	02/01/202

Teklab, Inc.
Environmental Laboratory

Receiving Check List

http://www.teklabinc.com/

Client: Alpha Analytical
Client Project: L2104358

Work Order: 21011492
Report Date: 02-Feb-21

Carrier: UPS

Received By: PRY

Completed by: Amanda R. Ham
On: 29-Jan-21

Reviewed by: Marvin L. Darling
On: 29-Jan-21

Pages to follow: Chain of custody 1 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 0.2
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☑	No ☐	No VOA vials ☐
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

2101492

Subcontract Chain of Custody

Tek Lab, Inc.
5445 Horsehoe Lake Road
Collinsville, IL 62234-7425

Alpha Job Number
L2104358

ALPHA ANALYTICAL
World Class Chemistry

Client Information	Project Information	Regulatory Requirements/Report Limits
Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 508-439-5132 Email: akane@alphalab.com	Project Location: MA Project Manager: Ashaley Kane **Turnaround & Deliverables Information** Due Date: Deliverables:	State/Federal Program: Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2104358

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com

0.2°C LT61 Ice, OHS 1/29/21 PR+

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
2101492-001	NPDES-2	01-27-21 16:00	WATER	Ethanol by EPA 1671 Revision A	

Relinquished By:	Date/Time:	Received By:	Date/Time:
C Tebeau	1/28/21	[illegible] (UPS)	1/29/21 0938

Form No: AL_subcoc

ANALYTICAL REPORT

Lab Number:	L2107309
Client:	Sanborn, Head & Associates, Inc. 1 Technology Park Drive Westford, MA 01886
ATTN:	Patrick Malone
Phone:	(978) 392-0900
Project Name:	776 SUMMER ST
Project Number:	4867.00
Report Date:	02/17/21

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: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2107309
Report Date: 02/17/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2107309-01	OF-2	WATER	776 SUMMER ST	01/27/21 14:45	01/27/21

Project Name:	776 SUMMER ST	**Lab Number:**	L2107309
Project Number:	4867.00	**Report Date:**	02/17/21

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.

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: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 02/17/21

INORGANICS
&
MISCELLANEOUS

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2107309
Report Date: 02/17/21

SAMPLE RESULTS

Lab ID: L2107309-01
Client ID: OF-2
Sample Location: 776 SUMMER ST

Date Collected: 01/27/21 14:45
Date Received: 01/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
SALINITY	27		SU	2.0	--	1	-	02/16/21 23:58	121,2520B	AS

Lab Control Sample Analysis

Batch Quality Control

Project Name: 776 SUMMER ST

Project Number: 4867.00

Lab Number: L2107309

Report Date: 02/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1465449-1								
SALINITY	100		-			-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: 776 SUMMER ST

Project Number: 4867.00

Lab Number: L2107309

Report Date: 02/17/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1465449-2 QC Sample: L2107309-01 Client ID: OF-2						
SALINITY	27	27	SU	0		

Project Name: 776 SUMMER ST
Project Number: 4867.00

Lab Number: L2107309
Report Date: 02/17/21

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(*)
L2107309-01A	Plastic 950ml unpreserved	A	7	7	3.1	Y	Absent		SALINITY(28)

*Values in parentheses indicate holding time in days

Project Name:	776 SUMMER ST	**Lab Number:**	L2107309
Project Number:	4867.00	**Report Date:**	02/17/21

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: Data Usability Report

Project Name:	776 SUMMER ST	**Lab Number:**	L2107309
Project Number:	4867.00	**Report Date:**	02/17/21

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. 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 reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report

Project Name:	776 SUMMER ST	**Lab Number:**	L2107309
Project Number:	4867.00	**Report Date:**	02/17/21

Data Qualifiers

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: Data Usability Report

Project Name:	776 SUMMER ST	**Lab Number:**	L2107309
Project Number:	4867.00	**Report Date:**	02/17/21

REFERENCES

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 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; 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.

L2107309

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 1/27/21

ALPHA Job #: ~~L2104245~~ EB 2/16/21

ALPHA TEST
8 Walkup Drive, Westboro, MA 01581, Tel. 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Client Information

Client: Sanborn Head
Address: 98 N Washington St Suite 101, Boston, MA 02114
Phone: 978-505-7721
Email: pmalone@sanbornhead.com

Project Information

Project Name: 776 Summer St
Project Location: 776 Summer St
Project #: 4867.00
Project Manager: Pat Malone
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due:

Report Information - Data Deliverables

☒ ADEx ☐ EMAIL

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☒ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:
*NPDES - 3 Dissolved Metals HAS been field filtered
^NPDES-1 and OF-2 have NOT been field filtered

ANALYSIS

VOC: ☐ 8260 ☐ 624 ☐ 524.2
SVOC: ☐ ABN ☐ PAH
METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15
METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13
EPH: ☐ Ranges & Targets ☐ Ranges Only
VPH: ☐ Ranges & Targets ☐ Ranges Only
☐ PCB ☐ PEST
TPH: ☐ Quant Only ☐ Fingerprint
NPDES RGP
NPDES RGP Dissolved Metals
Salinity

SAMPLE INFO
Filtration
☐ Field
☐ Lab to do
Preservation
☐ Lab to do

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Sample Comments
~~07295~~-01	NPDES-3	1/27/21	09:55	W	LAA	dissolved metals were field filtered
07309-02	NPDES-1	1/27/21	14:10	W	LAA	dissolved metals have NOT been filtered
-01 -03	OF-2	1/27/21	14:45	W	LAA	dissolved metals have NOT been filtered

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H= $Na_2S_2O_3$
I= Ascorbic Acid
J= NH_4Cl
K= Zn Acetate
O= Other

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	1/27/21 15:30	[signature] AR	1/27/21 1530
[signature] AAL	1/27/21 1700	[signature]	1/27/21 1700

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

APPENDIX D

MUNICIPAL CORRESPONDENCE

Patrick Malone

From: Patrick Malone
Sent: Thursday, March 25, 2021 10:32 AM
To: beginj@bwsc.org
Subject: NPDES RGP Notification - 776 Summer Street, Boston, MA

Good morning,

I am writing to notify you that we will be submitting a NPDES RGP NOI for a site located at 776 Summer St in South Boston 02127. We are proposing to discharge through private on-site catch basins that discharge to the Reserved Channel through private on-site Outfall 1 and Outfall 2. The approximate location of Outfall 1 is 42.3403455 and -71.0340689, and the approximate location of Outfall 2 is 42.3403460 and -71.0342355. Please let us know if you have any questions or if you need anything else.

Thank you,
Pat

Patrick R. Malone, PE
Project Director
Licensed: PE in MA

SANBORN | HEAD & ASSOCIATES, INC.
D 978.577.1041 | M 978.621.9625 | 1 Technology Park Drive, Westford, MA 01886

Click here to follow us on LinkedIn | Twitter | Facebook | sanbornhead.com

APPENDIX E

FEDERAL CORRESPONDENCE

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104
http://www.fws.gov/newengland

In Reply Refer To: February 10, 2021
Consultation Code: 05E1NE00-2021-SLI-1311
Event Code: 05E1NE00-2021-E-04174
Project Name: 776 Summer Street

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
(603) 223-2541

Project Summary

Consultation Code: 05E1NE00-2021-SLI-1311
Event Code: 05E1NE00-2021-E-04174
Project Name: 776 Summer Street
Project Type: DEVELOPMENT
Project Description: The location is 776 Summer Street, South Boston, MA 02127. The property is approximately 14 acres. Lat: 42.3399872, Long: -71.0347438. The proposed construction is the development of mixed-use space.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@42.33958715,-71.03391062162349,14z

Counties: Suffolk County, Massachusetts

Endangered Species Act Species

There is a total of 0 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Lindsey Aborn

From: Christine Vaccaro - NOAA Federal <christine.vaccaro@noaa.gov>
Sent: Wednesday, February 10, 2021 1:57 PM
To: Lindsey Aborn
Subject: Re: Information for RGP

Hi there,
You can use our mapper on this website to find this information:

https://www.fisheries.noaa.gov/new-england-mid-atlantic/consultations/section-7-species-critical-habitat-information-maps-greater

Cheers,
Chris

Chris Vaccaro
Fisheries Biologist
Protected Resources Division
NOAA Fisheries, Greater Atlantic Region
Gloucester, MA
Phone: 978-281-9167
Email: christine.vaccaro@noaa.gov

For additional ESA Section 7 information and Critical Habitat guidance, please see:
www.greateratlantic.fisheries.noaa.gov/protected/section7

On Wed, Feb 10, 2021 at 1:54 PM Lindsey Aborn <laborn@sanbornhead.com> wrote:

> Good Afternoon,
>
> I am writing to request information to be included as part of a Notice of Intent (NOI) for a Remediation General Permit (RGP). The NOI is for construction dewatering during excavation activities at 776 Summer Street in South Boston, MA 02127. Effluent will be discharged to the Reserved Channel in South Boston, MA by means of an existing private catch basin via a private on-site outfall.
>
> Approximate location of discharge:
>
> Latitude: 42.3403460 Longitude: -71.0342355

As part of the application to the USEPA for the RGP, we need to determine if this proposed temporary discharge has the potential to adversely affect any federally listed species in the reach of the Reserved Channel downstream of the discharge point.

Attached is the species list requested from the USFWS, which identified no threatened/endangered/candidate species or critical habitats in the area.

Please let me know if you require any further information.

Thank you,

Lindsey

Lindsey Aborn
Project Geologist

Not professionally licensed

SANBORN | HEAD & ASSOCIATES, INC.

D 857.327.9742 | 98 N. Washington Street, Suite 101, Boston, MA 02114

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APPENDIX F

NATIONAL REGISTER OF HISTORICAL PLACES, BOSTON, MASSACHUSETTS

Appendix F
National Register of Historic Places
Research Documentation
Boston, Massachusetts

Ref#	Property Name	Listed Date	State	County	City	Street & Number
01001198	Dorchester Heights Historic District	11/1/2001	MASSACHUSETTS	Suffolk	Dorchester	Roughly a one block area surrounding Telegraph Hill
08000693	Old Harbor Reservation Parkways, Metropolitan Park System of Greater Boston	7/24/2008	MASSACHUSETTS	Suffolk	Boston	William J. Day Blvd., Columbia Rd. between Farragut Rd and Kosciuszko Cir., Old Colony Ave. between Pacuska Ave.
87000885	Abbotsford	9/16/1987	MASSACHUSETTS	Suffolk	Boston	300 Walnut Ave.
82004456	Adams-Nervine Asylum	6/1/1982	MASSACHUSETTS	Suffolk	Boston	990-1020 Centre St.
71000087	African Meetinghouse	10/7/1971	MASSACHUSETTS	Suffolk	Boston	8 Smith St.
80000678	All Saints' Church	6/16/1980	MASSACHUSETTS	Suffolk	Boston	211 Ashmont St.
97001377	Allston Congregational Church	11/7/1997	MASSACHUSETTS	Suffolk	Boston	31-41 Quint Ave.
14000698	Almont Apartments	9/22/2014	MASSACHUSETTS	Suffolk	Boston	Address Restricted
74000382	Ames Building	4/26/1974	MASSACHUSETTS	Suffolk	Boston	1 Court St.
77001541	Appleton, Nathan, Residence	12/22/1977	MASSACHUSETTS	Suffolk	Boston	39-40 Beacon St.
73000313	Arlington Street Church	5/4/1973	MASSACHUSETTS	Suffolk	Boston	Arlington and Boylston Sts.
73000314	Armory of the First Corps of Cadets	5/22/1973	MASSACHUSETTS	Suffolk	Boston	97-105 Arlington St. and 130 Columbus Ave.
66000127	Arnold Arboretum	10/15/1966	MASSACHUSETTS	Suffolk	Boston	22 Divinity Ave.
100004335	Ascension-Caproni Historic District	12/23/2019	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by Washington St., Newcomb St, Thorndike St. & Reed St.
87001478	Austin, Francis B., House	10/21/1988	MASSACHUSETTS	Suffolk	Boston	58 High St.
05000459	Ayer, Frederick, Mansion	4/5/2005	MASSACHUSETTS	Suffolk	Boston	395 Commonwealth Avenue
73001948	Back Bay Historic District	8/14/1973	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by the Charles River, Arlington, Providence, Boylston and Newbury Sts., and Charlesgate East
98001381	Baker Congregational Church	11/19/1998	MASSACHUSETTS	Suffolk	Boston	760 Saratoga St.
83004285	Baker, Sarah J., School	7/7/1983	MASSACHUSETTS	Suffolk	Boston	33 Perrin St.
80000462	Beach-Knapp District	12/9/1980	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by Harrison Ave., Washington, Kneeland, and Beach Sts.
66000130	Beacon Hill Historic District	10/15/1966	MASSACHUSETTS	Suffolk	Boston	Bounded by Beacon St., the Charles River Embankment, and Pinckney, Revere, and Hancock Sts.
79000368	Bedford Building	8/21/1979	MASSACHUSETTS	Suffolk	Boston	89-103 Bedford St.
89002251	Bellevue Standpipe	1/18/1990	MASSACHUSETTS	Suffolk	Boston	On Bellevue Hill at Washington St. and Roxbury Pkwy.
04000023	Benedict Fenwick School	2/11/2004	MASSACHUSETTS	Suffolk	Boston	150 Magnolia St.
100002790	Benjamin Silverman Apartments	8/24/2018	MASSACHUSETTS	Suffolk	Boston	50-52 Lorne & 4 Wilson Sts.
02000548	Bennington Street Burying Ground	5/22/2002	MASSACHUSETTS	Suffolk	Boston	Bennington St., bet. Swift and harmony Sts.
80000677	Berger Factory	4/9/1980	MASSACHUSETTS	Suffolk	Boston	37 Williams St.
85000316	Bigelow School	2/21/1985	MASSACHUSETTS	Suffolk	Boston	350 W. 4th St.
73000315	Blackstone Block Historic District	5/26/1973	MASSACHUSETTS	Suffolk	Boston	Area bound by Union, Hanover, Blackstone, and North Sts.
14000272	Blake and Amory Building	6/2/2014	MASSACHUSETTS	Suffolk	Boston	59 Temple Pl.
74002350	Blake, James, House	5/1/1974	MASSACHUSETTS	Suffolk	Boston	735 Columbia Rd.
80004396	Boston African American National Historic Site	10/10/1980	MASSACHUSETTS	Suffolk	Boston	Museum of Afro American History, Dudley Station, Box 5
66000132	Boston Athenaeum	10/15/1966	MASSACHUSETTS	Suffolk	Boston	10 1/2 Beacon St.
87000760	Boston Common	2/27/1987	MASSACHUSETTS	Suffolk	Boston	Beacon, Park, Tremont, Boylston, and Charles St.
72000144	Boston Common and Public Garden	7/12/1972	MASSACHUSETTS	Suffolk	Boston	Beacon, Park, Tremont, Boylston, and Arlington Sts.
01001557	Boston Consumptives Hospital	2/7/2002	MASSACHUSETTS	Suffolk	Boston	249 River St.
80000453	Boston Edison Electric Illuminating Company	12/9/1980	MASSACHUSETTS	Suffolk	Boston	25-39 Boylston St.
100001314	Boston Fish Pier Historic District	7/13/2017	MASSACHUSETTS	Suffolk	Boston	212-234 Northern Ave.
85003323	Boston Harbor Islands Archeological District	12/21/1985	MASSACHUSETTS	Suffolk	Boston	Address Restricted
66000133	Boston Light	10/15/1966	MASSACHUSETTS	Suffolk	Boston	Little Brewster Island, Boston Harbor
15000195	Boston National Historical Park	5/5/2015	MASSACHUSETTS	Suffolk	Boston	Charlestown Navy Yard
74002222	Boston National Historical Park	10/26/1974	MASSACHUSETTS	Suffolk	Boston	Inner harbor at mouth of Charles River
66000134	Boston Naval Shipyard	11/15/1966	MASSACHUSETTS	Suffolk	Boston	E of Chelsea St., Charlestown
15000048	Boston Police Station Number One--Traffic Tunnel Administration Building	3/3/2015	MASSACHUSETTS	Suffolk	Boston	128, 150 North & 130 -140 Richmond St.
87000761	Boston Public Garden	2/27/1987	MASSACHUSETTS	Suffolk	Boston	Beacon, Charles, Boylston, and Arlington Sts.
73000317	Boston Public Library	5/6/1973	MASSACHUSETTS	Suffolk	Boston	Copley Sq.
07000861	Boston Transit Commission Building	8/31/2007	MASSACHUSETTS	Suffolk	Boston	15 Beacon St.
98001082	Boston Young Men's Christian Association	8/20/1998	MASSACHUSETTS	Suffolk	Boston	312-320 Huntington Ave.
80000451	Boston Young Men's Christian Union	12/9/1980	MASSACHUSETTS	Suffolk	Boston	48 Boylston St.
90001145	Bowditch School	8/3/1990	MASSACHUSETTS	Suffolk	Boston	80--82 Greene St.
80000450	Boylston Building	12/9/1980	MASSACHUSETTS	Suffolk	Boston	2-22 Boylston St.
01000088	Brighton Center Historic District	2/20/2001	MASSACHUSETTS	Suffolk	Boston	Academy Hill R., Chestnut Hill Ave., Dighton, Elko, Henshaw, Leicester, Market, Washington, and Winship Sts.
97000920	Brighton Evangelical Congregational Church	8/21/1997	MASSACHUSETTS	Suffolk	Boston	404-410 Washington St.
66000141	Brook Farm	10/15/1966	MASSACHUSETTS	Suffolk	Boston	670 Baker St.
85002015	Building at 138--142 Portland Street	9/5/1985	MASSACHUSETTS	Suffolk	Boston	138--142 Portland St.
14000561	Buildings at 825--829 Blue Hill Avenue	9/10/2014	MASSACHUSETTS	Suffolk	Boston	825-829 Blue Hill Ave.
86000274	Bulfinch Triangle Historic District	2/27/1986	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by Canal, Market, Merrimac, and Causeway Sts.
66000138	Bunker Hill Monument	10/15/1966	MASSACHUSETTS	Suffolk	Boston	Breed's Hill
87001771	Bunker Hill School	10/15/1987	MASSACHUSETTS	Suffolk	Boston	65 Baldwin St.
90001095	Calf Pasture Pumping Station Complex	8/2/1990	MASSACHUSETTS	Suffolk	Boston	435 Mount Vernon St.
98001361	Cathedral of St. George Historic District	11/25/1998	MASSACHUSETTS	Suffolk	Boston	517-523-525 E. Broadway
12001012	Central Congregational Church	10/16/2012	MASSACHUSETTS	Suffolk	Boston	67 Newbury St.
80000676	Charles Playhouse	6/16/1980	MASSACHUSETTS	Suffolk	Boston	74-78 Warenton St.
10000506	Charles River Reservation (Speedway)--Upper Basin Headquarters	7/19/2010	MASSACHUSETTS	Suffolk	Boston	1420-1440 Soldiers Field Rd
83000601	Charles Street African Methodist Episcopal Church	9/1/1983	MASSACHUSETTS	Suffolk	Boston	551 Warren St.
97000969	Charlestown Heights	1/8/1998	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by St. Martin, Bunker Hill, Medford, and Sackville Sts.
89002271	Chestnut Hill Reservoir Historic District	1/18/1990	MASSACHUSETTS	Suffolk	Boston	Beacon St. and Commonwealth Ave.
86000140	Christ Church	1/30/1986	MASSACHUSETTS	Suffolk	Boston	1220 River Rd.
99001614	Church Green Buildings Historic District	12/30/1999	MASSACHUSETTS	Suffolk	Boston	101-113 Summer St.
74000911	Clapp Houses	5/2/1974	MASSACHUSETTS	Suffolk	Boston	199 and 195 Boston St.
83004097	Codman Building	10/19/1983	MASSACHUSETTS	Suffolk	Boston	55 Kilby St.
83000602	Codman Square District	6/23/1983	MASSACHUSETTS	Suffolk	Boston	Norfolk, Talbot, Epping, Lithgow, Centre, and Moultrie Sts.
05000559	Collins Building	6/8/2005	MASSACHUSETTS	Suffolk	Boston	213-217 Washington St.
100001582	Columbia Road--Bellevue Street Historic District	9/8/2017	MASSACHUSETTS	Suffolk	Boston	400-500 blk. of Columbia Rd., portions of Bellevue St.
100001315	Columbia Road--Devon Street Historic District	7/17/2017	MASSACHUSETTS	Suffolk	Boston	193-231 (odd) & 200-204 (even) Columbia Rd.
100002734	Columbia Road--Strathcona Road Historic District	8/3/2018	MASSACHUSETTS	Suffolk	Boston	90-94,102-108, 105-111, 129-135, 137, 143-147, 150-156 Columbia & 16 Strathcona Rds., 114-126 Washington St.
12001162	Commonwealth Pier Five	10/10/1979	MASSACHUSETTS	Suffolk	Boston	165 Northern Ave.
08001284	Compton Building	12/31/2008	MASSACHUSETTS	Suffolk	Boston	159, 161-175 Devonshire St., 18-20 Arch St.
99001304	Congregation Adath Jeshurun	11/12/1999	MASSACHUSETTS	Suffolk	Boston	397 Blue Hill Ave.
87001396	Congress Street Fire Station	9/3/1987	MASSACHUSETTS	Suffolk	Boston	344 Congress St.
74000385	Copp's Hill Burial Ground	4/18/1974	MASSACHUSETTS	Suffolk	Boston	Charter, Snowhill, and Hull Sts.
90000631	Copp's Hill Terrace	4/19/1990	MASSACHUSETTS	Suffolk	Boston	Between Commercial and Charter Sts. W of Jackson Place
72000145	Crowninshield House	2/23/1972	MASSACHUSETTS	Suffolk	Boston	164 Marlborough St.
73000321	Custom House District	5/11/1973	MASSACHUSETTS	Suffolk	Boston	Between J.F.K. Expwy. and Kirby St. and S. Market and High and Batterymarch Sts.
73000318	Cyclorama Building	4/13/1973	MASSACHUSETTS	Suffolk	Boston	543-547 Tremont St.
13000928	Davidson, Sarah, Apartment Block	12/18/2013	MASSACHUSETTS	Suffolk	Boston	3 Gaylord St.
00000871	Dearborn School	8/2/2000	MASSACHUSETTS	Suffolk	Boston	25 Ambrose St.
80000448	Dill Building	12/9/1980	MASSACHUSETTS	Suffolk	Boston	11-25 Stuart St.
80001683	Dillaway School	4/9/1980	MASSACHUSETTS	Suffolk	Boston	16-20 Kenilworth St.
85000317	Dimock Community Health Center Complex	2/21/1985	MASSACHUSETTS	Suffolk	Boston	41 and 55 Dimock St.
87002549	District 13 Police Station	2/10/1988	MASSACHUSETTS	Suffolk	Boston	28 Seaverns Ave.
66000050	Dorchester Heights National Historic Site	10/15/1966	MASSACHUSETTS	Suffolk	Boston	South Boston
74000915	Dorchester North Burying Ground	4/18/1974	MASSACHUSETTS	Suffolk	Boston	Stroughton St. and Columbia Rd.
08000089	Dorchester Park	2/20/2008	MASSACHUSETTS	Suffolk	Boston	Bounded by Dorchester Ave., Richmond, Adams & Richview Sts.
85000318	Dorchester Pottery Works	2/21/1985	MASSACHUSETTS	Suffolk	Boston	101-105 Victory Rd.
14000365	Dorchester South Burying Ground	6/27/2014	MASSACHUSETTS	Suffolk	Boston	2095 Dorchester Ave.
97001239	Dorchester Temple Baptist Church	1/16/1998	MASSACHUSETTS	Suffolk	Boston	670 Washington St.
80000675	Dorchester-Milton Lower Mills Industrial District	4/2/1980	MASSACHUSETTS	Suffolk	Boston	Both sides of Neponset River
01000304	Dorchester--Milton Lower Mills Industrial District (Boundary Increase)	4/6/2001	MASSACHUSETTS	Suffolk	Boston	Roughly: Adams, River, Medway Sts., Millers Lane, Eliot and Adams Sts.
96001063	Douglass, Frederick, Square Historic District	10/3/1996	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by Hammond St., Cobat St., Windsor St., and Westminister St., Lower Roxbury

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85003074	Dudley Station Historic District	12/5/1985	MASSACHUSETTS	Suffolk	Boston	Washington, Warren, and Dudley Sts.
98000149	Eagle Hill Historic District	2/26/1998	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by Border, Lexington, Trenton, and Falcon Sts.
06000127	East Boston High School, Old	3/15/2006	MASSACHUSETTS	Suffolk	Boston	127 Marion St.
10000039	EDNA G. shipwreck (Eastern Rig dragger)	11/22/2010	MASSACHUSETTS	Suffolk	Boston	Address Restricted
10001066	Egleston Substation	12/27/2010	MASSACHUSETTS	Suffolk	Boston	3025 Washington St
74000388	Eliot Burying Ground	6/25/1974	MASSACHUSETTS	Suffolk	Boston	Eustis and Washington Sts.
93001587	Eliot Congregational Church	2/9/1994	MASSACHUSETTS	Suffolk	Boston	56 Dale St., corner 118--120 Walnut St.
88000959	Eliot Hall	7/15/1988	MASSACHUSETTS	Suffolk	Boston	7A Eliot St.
85003375	Engine House No. 34	10/24/1985	MASSACHUSETTS	Suffolk	Boston	444 Western Ave.
100003070	Esmond Street Historic District	11/5/2018	MASSACHUSETTS	Suffolk	Boston	Bicknell, Bradshaw, Esmond, & Harvard Sts.
66000366	Ether Dome, Massachusetts General Hospital	10/15/1966	MASSACHUSETTS	Suffolk	Boston	Fruit St.
09000612	Evergreen Cemetery	8/14/2009	MASSACHUSETTS	Suffolk	Boston	2060 Commonwealth Ave.
09000717	Fairview Cemetery	9/16/2009	MASSACHUSETTS	Suffolk	Boston	45 Fairview Ave.
66000368	Faneuil Hall	10/15/1966	MASSACHUSETTS	Suffolk	Boston	Dock Sq.
94001492	Faneuil, Peter, School	12/16/1994	MASSACHUSETTS	Suffolk	Boston	60 Joy St.
12000069	Fenway Park	3/7/2012	MASSACHUSETTS	Suffolk	Boston	24, & 2-4 Yawkey Wy., 64-76 Brookline Ave., & 70-80 Lansdowne St.
78000473	Fenway Studios	9/13/1978	MASSACHUSETTS	Suffolk	Boston	30 Ipswich St.
84002875	Fenway-Boylston Street District	9/4/1984	MASSACHUSETTS	Suffolk	Boston	Fenway, Boylston, Westland, and Hemenway Sts.
81000620	Fields Corner Municipal Building	11/12/1981	MASSACHUSETTS	Suffolk	Boston	1 Arcadia St., 195 Adams St.
86001909	Filene's Department Store	7/24/1986	MASSACHUSETTS	Suffolk	Boston	426 Washington St.
72000146	First Baptist Church	2/23/1972	MASSACHUSETTS	Suffolk	Boston	Commonwealth Ave. and Clarendon St.
88000955	First Church of Jamaica Plain	7/15/1988	MASSACHUSETTS	Suffolk	Boston	6 Eliot St.
99001308	First Congregational Church of Hyde Park	11/12/1999	MASSACHUSETTS	Suffolk	Boston	6 Webster St.
04001219	Forest Hills Cemetery	11/17/2004	MASSACHUSETTS	Suffolk	Boston	95 Forest Hills Ave.
70000921	Fort Independence	10/15/1970	MASSACHUSETTS	Suffolk	Boston	Castle Island
04000959	Fort Point Channel Historic District	9/10/2004	MASSACHUSETTS	Suffolk	Boston	Necco Court, Thomson Place, A, Binford, Congress, Farnsworth, Melcher, Midway, Sleeper, Stillings, Summer Sts.
70000540	Fort Warren	8/29/1970	MASSACHUSETTS	Suffolk	Boston	Georges Island, Boston Harbor
15000942	Fox, I.J., Building	12/29/2015	MASSACHUSETTS	Suffolk	Boston	407 Washington St.
02000081	Frances and Isabella Apartments	2/22/2002	MASSACHUSETTS	Suffolk	Boston	430-432 and 434-436 Dudley St.
16000409	Francis Street--Fenwood Road Historic District	6/23/2016	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by Huntington Ave., Francis, Vining & Fenwood Sts., St. Albans Rd.
73000319	Fulton-Commercial Streets District	3/21/1973	MASSACHUSETTS	Suffolk	Boston	Fulton, Commercial, Mercantile, Lewis, and Richmond Sts.
00000160	Fulton-Commercial Streets Historic District (Boundary Increase)	3/3/2000	MASSACHUSETTS	Suffolk	Boston	81-95 Richmond St.
83000603	Gardner, Isabella Stewart, Museum	1/27/1983	MASSACHUSETTS	Suffolk	Boston	280 The Fenway
66000653	Garrison, William Lloyd, House	10/15/1966	MASSACHUSETTS	Suffolk	Boston	125 Highland St.
80000674	Garrison, William Lloyd, School	4/16/1980	MASSACHUSETTS	Suffolk	Boston	20 Hutchings St.
01001048	Gibson House	8/7/2001	MASSACHUSETTS	Suffolk	Boston	137 Beacon St.
07000510	Goldsmith Block	6/5/2007	MASSACHUSETTS	Suffolk	Boston	41 Ruggles St., 746-750 Shawmut Ave.
88000908	Goodwin, Ozias, House	6/23/1988	MASSACHUSETTS	Suffolk	Boston	7 Jackson Ave.
16000454	Governor Shirley Square Historic District	7/18/2016	MASSACHUSETTS	Suffolk	Boston	Dudley, Hampden, Dunmore & Magazine Sts., Blue Hill & Mt. Pleasant Ave.
88000957	Greek Orthodox Cathedral of New England	6/30/1988	MASSACHUSETTS	Suffolk	Boston	520 Parker St.
02000154	Greenwood Memorial United Methodist Church	3/8/2002	MASSACHUSETTS	Suffolk	Boston	378A-380 Washington St.
14000974	Gridley Street Historic District	12/3/2014	MASSACHUSETTS	Suffolk	Boston	Bounded by Congress, High, Pearl & Purchase Sts.
82004453	Haffenreffer Brewery	5/2/1982	MASSACHUSETTS	Suffolk	Boston	Germania St.
73000325	Hale, Edward Everett, House	3/21/1979	MASSACHUSETTS	Suffolk	Boston	12 Morley St.
66000764	Harding, Chester, House	10/15/1966	MASSACHUSETTS	Suffolk	Boston	16 Beacon St.
02001190	Harrison Square Historic District	10/22/2002	MASSACHUSETTS	Suffolk	Boston	Bounded by MBTA Braintree line embankment, Park, Everett, Freeport, Mill, Asland, Blanche Sts., Victory Rd.
86000375	Harriswood Crescent	3/13/1986	MASSACHUSETTS	Suffolk	Boston	60--88 Harold St.
83000605	Harvard Avenue Fire Station	3/31/1983	MASSACHUSETTS	Suffolk	Boston	16 Harvard Ave.
00000415	Harvard Avenue Historic District	4/28/2000	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by Linden St., Commonwealth AVe., Harvard Ave., and Park Vale Ave.
87000757	Harvard Stadium	2/27/1987	MASSACHUSETTS	Suffolk	Boston	60 N. Harvard St.
04000085	Haskell, Edward H., Home for Nurses	2/26/2004	MASSACHUSETTS	Suffolk	Boston	220 Fisther Ave., 63 Parker Hill Ave.
80000446	Hayden Building	12/9/1980	MASSACHUSETTS	Suffolk	Boston	681-683 Washington St.
66000765	Headquarters House	10/15/1966	MASSACHUSETTS	Suffolk	Boston	55 Beacon St.
04000534	Hibernian Hall	6/2/2004	MASSACHUSETTS	Suffolk	Boston	182-186 Dudley St.
10000300	Highland Spring Brewery Bottling and Storage Buildings	5/28/2010	MASSACHUSETTS	Suffolk	Boston	154-166 Terrace St
05000879	Home for Aged Couples	8/11/2005	MASSACHUSETTS	Suffolk	Boston	409, 419 Walnut Ave. and 2055 Columbus Ave.
14000840	Home for Destitute Jewish Children	10/8/2014	MASSACHUSETTS	Suffolk	Boston	Address Restricted
93001573	House at 1 Bay Street	2/9/1994	MASSACHUSETTS	Suffolk	Boston	1 Bay St.
87001398	House at 17 Cranston Street	11/20/1987	MASSACHUSETTS	Suffolk	Boston	17 Cranston St.
74002044	Howe, Samuel Gridley and Julia Ward, House	9/13/1974	MASSACHUSETTS	Suffolk	Boston	13 Chestnut St.
87001399	Hoxie, Timothy, House	11/20/1987	MASSACHUSETTS	Suffolk	Boston	135 Hillside St.
79000369	International Trust Company Building	9/10/1979	MASSACHUSETTS	Suffolk	Boston	39-47 Milk St.
100003470	Intervale Street-Columbia Road Historic District	2/28/2019	MASSACHUSETTS	Suffolk	Boston	117-121, 123-127, 129-135, 137-143, 145-159, 161, 162 Intervale St. & 282-284, 286-288 Columbia Rd.
74000391	John Adams Courthouse	5/8/1974	MASSACHUSETTS	Suffolk	Boston	Pemberton Sq.
73000854	John Eliot Square District	4/23/1973	MASSACHUSETTS	Suffolk	Boston	John Eliot Sq.
08000793	Joshua Bates School	8/22/2008	MASSACHUSETTS	Suffolk	Boston	731 Harrison Ave.
74002045	King's Chapel	5/2/1974	MASSACHUSETTS	Suffolk	Boston	Tremont and School Sts.
73000855	Kittredge, Alvah, House	5/8/1973	MASSACHUSETTS	Suffolk	Boston	12 Linwood St.
83000606	Lawrence Model Lodging Houses	9/22/1983	MASSACHUSETTS	Suffolk	Boston	79, 89, 99 and 109 E. Canton St.
83004098	Leather District	12/21/1983	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by Atlantic Ave., Kneeland, Lincoln, and Essex Sts.
80000460	Liberty Tree District	12/9/1980	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by Harrison Ave., Washington, Essex and Beach Sts.
86001911	Locke--Ober Restaurant	7/24/1986	MASSACHUSETTS	Suffolk	Boston	3--4 Winter Pl.
87001481	Long Island Head Light	6/15/1987	MASSACHUSETTS	Suffolk	Boston	Long Island
66000768	Long Wharf and Customhouse Block	11/13/1966	MASSACHUSETTS	Suffolk	Boston	Foot of State St.
83000604	Loring, Harrison, House	9/1/1983	MASSACHUSETTS	Suffolk	Boston	789 E. Broadway St.
72000544	Loring-Greenough House	4/26/1972	MASSACHUSETTS	Suffolk	Boston	12 South St.
94001494	Lower Roxbury Historic District	12/9/1994	MASSACHUSETTS	Suffolk	Boston	Roughly, area surrounding Coventry, Cunard, and Walpole Sts.
83004099	LUNA (tugboat)	10/6/1983	MASSACHUSETTS	Suffolk	Boston	NDC Pier, Charles River
14000975	Lyman, Theodore, School	12/2/2014	MASSACHUSETTS	Suffolk	Boston	30 Gove St.
99001302	Mariner's House	11/12/1999	MASSACHUSETTS	Suffolk	Boston	11 North Square
70000682	Massachusetts General Hospital	12/30/1970	MASSACHUSETTS	Suffolk	Boston	Fruit Street
66000770	Massachusetts Historical Society Building	10/15/1966	MASSACHUSETTS	Suffolk	Boston	1154 Boylston St.
93001489	Massachusetts Mental Health Center	1/21/1994	MASSACHUSETTS	Suffolk	Boston	74 Fenwood Rd.
89000974	Massachusetts School of Art	8/3/1989	MASSACHUSETTS	Suffolk	Boston	364 Brookline Ave.
66000771	Massachusetts Statehouse	10/15/1966	MASSACHUSETTS	Suffolk	Boston	Beacon Hill
82004450	McKay, Donald, House	6/2/1982	MASSACHUSETTS	Suffolk	Boston	78-80 White St.
80000445	Metropolitan Theatre	12/9/1980	MASSACHUSETTS	Suffolk	Boston	252-272 Tremont St.
89001747	Mission Hill Triangle Historic District	11/6/1989	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by Smith St., Worthington St., Tremont St., and Huntington Ave.
87001128	Monument Square Historic District	6/2/1987	MASSACHUSETTS	Suffolk	Boston	Monument Sq.
90001536	Monument Square Historic District	10/11/1990	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by Jamaicaway, Pond, Centre and Eliot Sts.
84002890	Moreland Street Historic District	3/29/1984	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by Kearsarge, Blue Hill Aves., Warren, Waverly, and Winthrop Sts.
04001572	Morton Street, Metropolitan Park System of Greater Boston	1/24/2005	MASSACHUSETTS	Suffolk	Boston	Morton St.
09000767	Mount Hope Cemetery	9/24/2009	MASSACHUSETTS	Suffolk	Boston	355 Walk Hill St.
89000004	Mount Pleasant Historic District	2/9/1989	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by Forest St. and Mount Pleasant Ave.
100003942	Nathan Warnick Apartments	12/23/2019	MASSACHUSETTS	Suffolk	Boston	57 Bicknell St.
04000426	Nazing Court Apartments	5/12/2004	MASSACHUSETTS	Suffolk	Boston	224-236 Seaver St. and 1-8 Nazing Court
76001979	Nell, William C., House	5/11/1976	MASSACHUSETTS	Suffolk	Boston	3 Smith Ct.
04001573	Neponset Valley Parkway, Metorpolitan Park System of Greater Boston	1/24/2005	MASSACHUSETTS	Suffolk	Boston	Neponset Valley Parkway
80000672	New England Conservatory of Music	5/14/1980	MASSACHUSETTS	Suffolk	Boston	290 Huntington Ave.
87001394	New Riding Club	8/20/1987	MASSACHUSETTS	Suffolk	Boston	52 Hemenway St.
83000607	Newspaper Row	7/7/1983	MASSACHUSETTS	Suffolk	Boston	322-328 Washington St., 5-23 Milk St., and 11 Hawley St.

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04000189	Nix's Mate Daybeacon	3/18/2004	MASSACHUSETTS	Suffolk	Boston	Nubble Channel, The Narrows, Boston Harbor
97000971	North Terminal Garage	9/11/1997	MASSACHUSETTS	Suffolk	Boston	600 Commercial St.
80000465	Oak Square School	11/10/1980	MASSACHUSETTS	Suffolk	Boston	35 Nonantum St.
08000795	Ohabei Shalom Cemetery	8/19/2008	MASSACHUSETTS	Suffolk	Boston	147 Wordsworth St.
70000687	Old City Hall	12/30/1970	MASSACHUSETTS	Suffolk	Boston	School and Providence Sts.
73000322	Old Corner Bookstore	4/11/1973	MASSACHUSETTS	Suffolk	Boston	NW corner of Washington and School Sts.
66000776	Old North Church	10/15/1966	MASSACHUSETTS	Suffolk	Boston	193 Salem St.
70000690	Old South Church in Boston	12/30/1970	MASSACHUSETTS	Suffolk	Boston	645 Boylston St.
66000778	Old South Meetinghouse	10/15/1966	MASSACHUSETTS	Suffolk	Boston	Milk and Washington Sts.
66000779	Old State House	10/15/1966	MASSACHUSETTS	Suffolk	Boston	Washington and State Sts.
70000691	Old West Church	12/30/1970	MASSACHUSETTS	Suffolk	Boston	131 Cambridge St.
70000539	Otis, (First) Harrison Gray, House	12/30/1970	MASSACHUSETTS	Suffolk	Boston	141 Cambridge St.
73001955	Otis, (Second) Harrison Gray, House	7/27/1973	MASSACHUSETTS	Suffolk	Boston	85 Mt. Vernon St.
02001039	Paine Furniture Building	9/12/2002	MASSACHUSETTS	Suffolk	Boston	75-81 Arlington St.
74000390	Park Street District	5/1/1974	MASSACHUSETTS	Suffolk	Boston	Tremont, Park, and Beacon Sts.
66000782	Parkman, Francis, House	10/15/1966	MASSACHUSETTS	Suffolk	Boston	50 Chestnut St.
01000872	Peabody, The	8/8/2001	MASSACHUSETTS	Suffolk	Boston	195-197 Ashmont St.
74000907	Phipps Street Burying Ground	5/14/1974	MASSACHUSETTS	Suffolk	Boston	Phipps St.
80000458	Piano Row District	12/9/1980	MASSACHUSETTS	Suffolk	Boston	Boston Common, Park Sq., Boylston Pl. and Tremont St.
74000917	Pierce House	4/26/1974	MASSACHUSETTS	Suffolk	Boston	24 Oakton Ave.
68000042	Pierce-Hichborn House	11/24/1968	MASSACHUSETTS	Suffolk	Boston	29 North Sq.
13000929	Pilgrim Congregational Church	12/18/2013	MASSACHUSETTS	Suffolk	Boston	540-544 Columbia Rd.
03000781	Publicity Building	8/20/2003	MASSACHUSETTS	Suffolk	Boston	40-44 Bromfield St.
100001458	Quincy Grammar School	8/1/2017	MASSACHUSETTS	Suffolk	Boston	88-90 Tyler St.
66000784	Quincy Market	11/13/1966	MASSACHUSETTS	Suffolk	Boston	S. Market St.
66000785	Revere, Paul, House	10/15/1966	MASSACHUSETTS	Suffolk	Boston	19 North Sq.
86001504	Richardson Block	8/9/1986	MASSACHUSETTS	Suffolk	Boston	113--151 Pearl and 109--119 High Sts.
95001450	Riviera, The	12/7/1995	MASSACHUSETTS	Suffolk	Boston	270 Huntington Ave.
97001278	ROSEWAY (schooner)	9/25/1997	MASSACHUSETTS	Suffolk	Boston	Boston Harbor
98001330	Roslindale Baptist Church	11/5/1998	MASSACHUSETTS	Suffolk	Boston	52 Cummins Hwy.
13000621	Roslindale Substation	8/27/2013	MASSACHUSETTS	Suffolk	Boston	4228 Washington St.
82004448	Roughan Hall	4/15/1982	MASSACHUSETTS	Suffolk	Boston	15-18 City Sq.
73000856	Roxbury High Fort	4/23/1973	MASSACHUSETTS	Suffolk	Boston	Beech Glen St. at Fort Ave.
89000147	Roxbury Highlands Historic District	2/22/1989	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by Dudley St., Washington St., and Columbus Ave.
89002125	Roxbury Presbyterian Church	3/15/1991	MASSACHUSETTS	Suffolk	Boston	328 Warren St.
80000463	Russia Wharf Buildings	12/2/1980	MASSACHUSETTS	Suffolk	Boston	518-540 Atlantic Ave., 270 Congress St. and 276-290 Congress St.
87001495	Saint Augustine Chapel and Cemetery	9/18/1987	MASSACHUSETTS	Suffolk	Boston	Dorchester St. between W. Sixth and Tudor Sts.
12000783	Saint Mark's Episcopal Church	7/3/2014	MASSACHUSETTS	Suffolk	Boston	73 Columbia Rd.
100003471	Samuel Edelman Apartments	3/5/2019	MASSACHUSETTS	Suffolk	Boston	97-103 Norfolk St.
03000385	Savin Hill Historic District	5/9/2003	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by Savin Hill Ave., Morrissey Blvd., Dorchester Bay, and I-93
86001486	Sears' Crescent and Sears' Block	8/9/1986	MASSACHUSETTS	Suffolk	Boston	38--68 and 70--72 Cornhill
90001992	Sears Roebuck and Company Mail Order Store	1/15/1991	MASSACHUSETTS	Suffolk	Boston	309 Park Dr. and 201 Brookline Ave.
70000731	Sears, David, House	12/30/1970	MASSACHUSETTS	Suffolk	Boston	42 Beacon St.
86001913	Second Brazer Building	7/24/1986	MASSACHUSETTS	Suffolk	Boston	25--29 State St.
10000391	Second Church in Boston	6/24/2010	MASSACHUSETTS	Suffolk	Boston	874, 876, 880 Beacon St
12000978	Sherman Apartments Historic District	11/28/2012	MASSACHUSETTS	Suffolk	Boston	544-546 Washington, 4-6, 12-14, 18 Lyndhurst Sts.
80000444	Shubert, Sam S., Theatre	12/9/1980	MASSACHUSETTS	Suffolk	Boston	263-265 Tremont St.
05000936	South Boston Boat Clubs Historic District	9/1/2005	MASSACHUSETTS	Suffolk	Boston	1793-1849 William J. Day Blvd.
73000324	South End District	5/8/1973	MASSACHUSETTS	Suffolk	Boston	South Bay area between Huntington and Harrison Aves.
14001095	South End District (Boundary Increase)	12/29/2014	MASSACHUSETTS	Suffolk	Boston	200-224 Northampton St.
75000299	South Station Headhouse	2/13/1975	MASSACHUSETTS	Suffolk	Boston	Atlantic Ave. and Summer St.
89002169	St. Joseph's Roman Catholic Church Complex	12/28/1989	MASSACHUSETTS	Suffolk	Boston	Bounded by Circuit, Regent, Hulbert, and Fenwick Sts.
97001472	St. Luke's and St. Margaret's Church	11/12/1997	MASSACHUSETTS	Suffolk	Boston	5-7 St. Luke's Rd.
98001292	St. Mary's Episcopal Church	10/30/1998	MASSACHUSETTS	Suffolk	Boston	14-16 Cushing Ave.
70000730	St. Paul's Church	12/30/1970	MASSACHUSETTS	Suffolk	Boston	136 Tremont St.
75000300	St. Stephen's Church	4/14/1975	MASSACHUSETTS	Suffolk	Boston	Hanover St. between Clark and Harris Sts.
80000671	Stearns, R. H., House	6/16/1980	MASSACHUSETTS	Suffolk	Boston	140 Tremont St.
05001509	Stony Brook Reservation Parkways, Metropolitan Park System of Great Boston MPS	1/3/2006	MASSACHUSETTS	Suffolk	Boston	Dedham, Enneking, Turtle Pond Parkways, Smith Field, Reservation, W. Border Rds.
97000970	Students House	9/11/1997	MASSACHUSETTS	Suffolk	Boston	96 The Fenway
80000670	Suffolk County Jail	4/23/1980	MASSACHUSETTS	Suffolk	Boston	215 Charles St.
87001889	Sumner Hill Historic District	10/22/1987	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by Seaverns Ave., Everett St., Carolina Ave., & Newbern St.
73001953	Sumner, Charles, House	11/7/1973	MASSACHUSETTS	Suffolk	Boston	20 Hancock St.
75000301	Symphony and Horticultural Halls	5/30/1975	MASSACHUSETTS	Suffolk	Boston	Massachusetts and Huntington Aves.
99000633	Symphony Hall	1/20/1999	MASSACHUSETTS	Suffolk	Boston	301 Massachusetts Avenue
88000427	Temple Place Historic District	7/26/1988	MASSACHUSETTS	Suffolk	Boston	11--55, 26--58 Temple Pl.
12000099	Terminal Storage Warehouse District	3/12/2012	MASSACHUSETTS	Suffolk	Boston	267-281 Medford St., 40 & 50 Terminal St.
90001757	Textile District	11/29/1990	MASSACHUSETTS	Suffolk	Boston	Roughly, Essex St. from Phillips Sq. to Columbia St. and Chauncy St. from Phillips Sq. to Rowe Pl.
73000850	Town Hill District	5/11/1973	MASSACHUSETTS	Suffolk	Boston	Bounded roughly by Rutherford Ave. and Main and Warren Sts.
66000788	Tremont Street Subway	10/15/1966	MASSACHUSETTS	Suffolk	Boston	Beneath Tremont, Boylston, and Washington Sts.
70000733	Trinity Church	7/1/1970	MASSACHUSETTS	Suffolk	Boston	Copley Sq.
92000356	Trinity Neighborhood House	4/14/1992	MASSACHUSETTS	Suffolk	Boston	406 Meridian St.
72000150	Trinity Rectory	2/23/1972	MASSACHUSETTS	Suffolk	Boston	Clarendon and Newbury Sts.
04001430	Truman Parkway--Metropolitan Park System of Greater Boston	1/5/2005	MASSACHUSETTS	Suffolk	Boston	Truman Parkway
66000789	U.S.S. CONSTITUTION	10/15/1966	MASSACHUSETTS	Suffolk	Boston	Boston Naval Shipyard
03000645	Union Oyster House	5/27/2003	MASSACHUSETTS	Suffolk	Boston	41-43 Union Street
80000669	Union Wharf	6/22/1980	MASSACHUSETTS	Suffolk	Boston	295-353 Commercial St.
80000668	United Shoe Machinery Corporation Building	8/19/1980	MASSACHUSETTS	Suffolk	Boston	138-164 Federal St.
11000160	United State Post Office, Courthouse, and Federal Building	4/8/2011	MASSACHUSETTS	Suffolk	Boston	5 Post Office Square
90001537	Upham's Corner Market	10/11/1990	MASSACHUSETTS	Suffolk	Boston	600 Columbia Rd.
86000084	USS CASSIN YOUNG (destroyer)	1/14/1986	MASSACHUSETTS	Suffolk	Boston	Charlestown Navy Yard
84000421	Vermont Building	11/13/1984	MASSACHUSETTS	Suffolk	Boston	6-12 Thacher St.
04001432	VFW Parkway, Metropolitan Park System of Greater Boston	1/5/2005	MASSACHUSETTS	Suffolk	Boston	VFW Parkway, bet. Spring And Centre Sts.
13000930	Walton and Roslin Halls	12/18/2013	MASSACHUSETTS	Suffolk	Boston	702-708 & 710-726 Washington St., 3-5 Walton St.
79000370	Washington Street Theatre District	3/19/1979	MASSACHUSETTS	Suffolk	Boston	511-559 Washington St.
80000455	West Street District	12/9/1980	MASSACHUSETTS	Suffolk	Boston	West St.
82000486	Wigglesworth Building	10/21/1982	MASSACHUSETTS	Suffolk	Boston	89-83 Franklin St.
80000443	Wilbur Theatre	12/9/1980	MASSACHUSETTS	Suffolk	Boston	244-250 Tremont St.
74000392	Winthrop Building	4/18/1974	MASSACHUSETTS	Suffolk	Boston	7 Water St.
80000442	Wirth, Jacob, Buildings	12/9/1980	MASSACHUSETTS	Suffolk	Boston	31-39 Stuart St.
99000593	Woodbourne Historic District	6/4/1999	MASSACHUSETTS	Suffolk	Boston	Roughly bounded by Walk Hill, Goodway, and Wachusett Sts.
74000393	Youth's Companion Building	5/2/1974	MASSACHUSETTS	Suffolk	Boston	209 Columbus Ave.
04000119	YWCA Boston	3/3/2004	MASSACHUSETTS	Suffolk	Boston	140 Clarendon St.
76002003	Trotter, William Monroe, House	5/11/1976	MASSACHUSETTS	Suffolk	Dorchester	97 Sawyer Ave.
86001378	US Post Office Garage	6/26/1986	MASSACHUSETTS	Suffolk	South Boston	135 A St.

Notes:
1. Sanborn, Head & Associates, Inc. (Sanborn Head) conducted a review of the National Register of Historic Places within Boston, Massachusetts. The search returned the results listed above. The Site is not listed on the National Register of Hist
2. Shaded results are located within 0.5 mile of the Site.

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