



HALEY & ALDRICH, INC.  
465 Medford St.  
Suite 2200  
Boston, MA 02129  
617.886.7400

31 March 2022  
File No. 130647-002

US Environmental Protection Agency (EPA) Region 1  
5 Post Office Square, Suite 100  
Mail Code OEP06-4  
Boston, Massachusetts 02129

Attention: Shauna Little  
EPA/OEP RGP Applications Coordinator

Subject: NPDES RGP Application - Temporary Construction Dewatering  
Proposed Biomedical Laboratory Campus  
250-280 Western Avenue  
Allston, Massachusetts

Dear Ms. Little:

On behalf of our client, Allston Labworks Developer LLC, Haley & Aldrich, Inc. (Haley & Aldrich) has prepared this submission for a National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) to facilitate off-site discharge of dewatering effluent generated during construction activities at the 250-280 Western Avenue construction project (the "Site") located at 250-280 Western Avenue in Allston, Massachusetts (see Figure 1). The information presented herein has been prepared to follow requirements of the 2017 US Environmental Protection Agency (EPA) NPDES RGP. A copy of the completed Notice of Intent (NOI) form is enclosed as Appendix A.

### EXISTING SITE CONDITIONS

The subject site currently consists of the following:

- 250 Western Avenue – This portion of the Site is located along the south limits of Western Avenue between Riverdale Street and Speedway Avenue. The Site is presently occupied by 1 to 2-story commercial buildings (restaurants and a trucking facility), a single, 3-story residential building, and large paved parking areas. It is unknown whether any of these existing buildings contain basements. The Site slopes upward from Western Avenue towards the rear of the Site, north to south, from approximately El. 18 to El. 28 (Boston City Base, BCB).
- 280 Western Avenue – This portion of the Site is located along the south limits of Western Avenue between the commercial property at 300 Western Avenue (corner of Western Avenue and Everett Street) and Speedway Avenue. The Site is presently occupied by a 1-story former automotive repair/gasoline station, 2-story commercial building, and large paved parking area. It is unknown whether any of these existing buildings contain basements. The Site slopes

upward from Western Avenue to the rear of the Site, north to south, from approximately El. 18 to El. 26.

## SITE HISTORY AND REGULATORY BACKGROUND

Site history is based on a review of historical reports, Sanborn maps, and aerial photographs. Prior to 1898, the Site appears undeveloped. Between 1898 and 1925, the Site was developed. From 1925 to 2002 the Site remained unchanged. By 1950, the Site shows two additional buildings including a filling station and an auto repair shop. The auto repair shop is also labeled as providing used car sales. The Sanborn maps from 1950 also show the 248-250 Western Avenue parcels occupied by a 2-story dwelling and a four-car garage, which reflect the current configuration of that portion of the Site.

By 1964, the building occupying the portion of the Site located at 260 Western Avenue is shown as a motor freight station and a shop along Western Avenue. The portion of the Site at 270 Western Avenue appears to have been developed in the early 1950s when a building appears on the northern half of the Site. That building is consistent in size with the diner currently present at the Site, and the Site building footprint appears to have remained relatively unchanged since construction. The portion of the Site at 280 Western Avenue reportedly operated as a gas station since at least 1950. Stadium Gas most recently occupied the gas station Site until May 2016, when USTs and pumping stations were removed.

## PROPOSED CONSTRUCTION

Our understanding of the proposed campus development is based on discussions with Allston Labworks and drawings provided by DiMella Shaffer on 10 June 2021. The proposed development will consist of two (2) buildings as part of the biomedical laboratory campus. A summary of the proposed buildings is as follows:

- 250 Western Avenue – The building will consist of a 7-story research building (6-story with penthouse level, 257,100 gross square feet [sq. ft]) with a single below-grade parking level. Retail and restaurant space will be provided on the first floor. Typical column spacing for the building is planned at 32 ft by 42 ft.
- 280 Western Avenue - The building will consist of a 6-story residential structure (46,400 gross sq. ft) and a 5-story parking garage (480 parking spaces) with a partial below-grade parking level. Retail, restaurant, and civic space will be provided on the first floor. Typical column spacing for the building is planned at 16 ft by 29 ft (residential) and 35 ft by 60 ft (parking garage).

This application is for dewatering activities that will occur on the south side of Western Avenue between Riverdale and Everett Streets.

## CURRENT GROUNDWATER LEVELS AND GROUNDWATER QUALITY DATA

The groundwater levels observed in the groundwater observation wells ranged from El. 4.5 to 11.8, with an average level of El. 8.6. The data indicates a slight rise in groundwater elevation from north to south across the Site.

Groundwater levels vary with season and precipitation, leakage from utilities, and other factors. As a result, groundwater levels observed during and following construction may vary from those observed during recent explorations.

One groundwater sample was collected by Haley & Aldrich on 11 March 2022 for due diligence and future permitting purposes. The sampling results are provided in Table I, and the sampling location is shown on Figure 2. Laboratory data reports are included in Appendix B.

A water sample was collected from previously installed monitoring well location OW-14 and submitted to Alpha Analytical for analysis of the following parameters in support of a future dewatering permit application:

- VOCs;
- SVOCs;
- PCBs;
- TPH and ethanol;
- Metals;
- Chloride;
- Total residual chlorine;
- Total cyanide;
- Ammonia nitrogen;
- Total phenols; and
- Total suspended solids (TSS).

No analytes were detected above RCGW-2 Reportable concentrations.

#### RECEIVING WATERS SAMPLING AND DILUTION FACTOR

On 9 February 2022, Haley & Aldrich collected one surface water sample designated RECEIVING WATER-20220203 from upstream of the proposed outfall location into the Charles River, and the sample was submitted to Alpha for total metals, ammonia, pH, and hardness. Temperature readings were collected in the field. The results of the surface water sampling are summarized in Table II, and a copy of the laboratory data report is included in Appendix B.

The seven-day-ten-year flow (7Q10) of the receiving water was established using the U.S. Geological Survey (USGS) StreamStats program and confirmed by Massachusetts Department of Environmental Protection (MassDEP) on 25 March 2022. We also confirmed with MassDEP that the dilution factor for the receiving waters is 73.2. The StreamStats Report, Dilution Factor calculations, and confirmation from MassDEP are included in Appendix C.

#### EFFLUENT CRITERIA DOCUMENTATION

Groundwater and Receiving Water data were input into the MALimitsBook calculation spreadsheet provided by EPA and used to calculate the effluent criteria for the Site. A copy of the "EnterData" from the provided excel file are included in Appendix C. The water quality-based effluent limits (TBELs) are included for reference in Table I.

## **DEWATERING SYSTEM AND OFF-SITE DISCHARGE**

During construction activities, it will be necessary to perform temporary dewatering to control surface water runoff from precipitation, groundwater seepage, and construction-generated water to enable construction in-the-dry. Construction and construction dewatering activities are currently anticipated to be required for a period of approximately 24 months. On average, we estimate effluent discharge rates of about 100 gallons per minute (gpm) or less. Temporary dewatering will be conducted from localized sumps and dewatering wells around the Site. Drawings of the contractor's dewatering system were not available at the time of this permit application.

Construction dewatering will include piping and discharging to the storm drains shown on Figure 3. The proposed discharge route and outfall location is shown on Figure 3. Prior to discharge, collected water will be routed through a fractionation tank and bag filters and other necessary treatment components, to remove suspended solids and undissolved chemical constituents, as shown on Figure 4. A Notice of Change (NOC) will be submitted to EPA if additional treatment components need to be mobilized at the site.

## **DETERMINATION OF ENDANGERED SPECIES ACT ELIGIBILITY**

According to the guidelines outlined in Appendix I of the 2017 NPDES RGP, a preliminary determination for the action area associated with this project was established using the U.S. Fish and Wildlife Service (FWS) Information for Planning and Consultation (IPaC) online system; a copy of the determination is attached in Appendix D. Based on the results of the determination, we ask that the project and action area are considered to meet FWS Criterion A, as only Monarch Butterflies were listed on IPaC. Since the project and action area is located in an Urban, commercial, and industrial area. The project and action area are developed and paved. There is no open green space or protected open space at the site, a MassDEP Phase I Site Assessment Map is included in Appendix D. No critical habitats have been established to be present within the project action area.

## **DOCUMENTATION OF NATIONAL HISTORIC PRESERVATION ACT ELIGIBILITY REQUIREMENTS**

Based on a review of the resources provided by the U.S. National Register of Historic Places and a review of the Massachusetts Cultural Resource Information System (MACRIS), historic properties have been established to be present at the project site, and discharges and discharge-related activities are not considered to have the potential to affect historic properties. The discharge is considered to meet Criterion B. Documentation is included in Appendix E.

## **SUPPLEMENTAL INFORMATION**

Applications for a temporary construction dewatering permit are being submitted concurrently to the Boston Water and Sewer Commission (BWSC) and MassDOT; copies of these applications are provided in Appendix F. Approval will be received prior to the start of discharge. A Best Management Practices Plan (BMPP), which outlines the proposed discharge operations covered under the RGP, will be available at the Site and is included in Appendix G.



**Owner and Operator Information**

**Owner:**

Allston Labworks Developer LLC  
800 Boylston Street Suite 2400  
Boston, MA 02199  
Attn: Brian Grisaru

**Operator:**

Consigli  
313 Congress Street  
Boston, MA 02210  
Attn: Gregg McGuirl

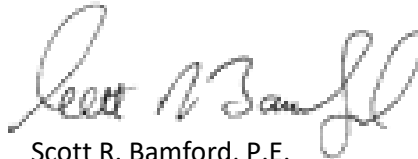
**CLOSING**

Thank you very much for your consideration. Please feel free to contact us should you wish to discuss the information contained herein or if you need additional information.

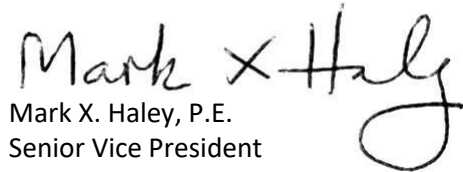
Sincerely yours,  
HALEY & ALDRICH, INC.



Amelia E. Midgley  
Staff Geologist



Scott R. Bamford, P.E.  
Senior Project Manager



Mark X. Haley, P.E.  
Senior Vice President

**Attachments:**

- Table I – Summary of Groundwater Quality Data
- Table II – Summary of Surface Water Quality Data
- Figure 1 – Project Locus
- Figure 2 – Site and Subsurface Exploration Location Plan
- Figure 3 – Proposed Dewatering Discharge Route
- Figure 4 – Treatment System Schematic
- Appendix A – Notice of Intent (NOI)
- Appendix B – Laboratory Data Reports
- Appendix C – Dilution Factor and Effluent Limit Calculations
- Appendix D – Endangered Species Act Documentation
- Appendix E – National Register of Historic Places Documentation
- Appendix F – Copy of BWSC Permit Application
- Appendix G – Best Management Practices Plan (BMPP)

## TABLES

TABLE I  
SUMMARY GROUND WATER QUALITY DATA  
250-305 WESTERN AVENUE  
BOSTON, MA  
FILE NO. 130647

Location Name Sample Name Sample Date  Lab Sample ID	Action Level		OW-14 OW-14-20220311 03/11/2022  L2213085-01
	Massachusetts	MCP	
	RGP	Reportable	
	Freshwater TBEL 2017	Concentration RCGW-2 2014	
<b>Volatile Organic Compounds (ug/L)</b>			
1,1,1-Trichloroethane	200	4000	ND (2)
1,1,2-Trichloroethane	5	900	ND (1.5)
1,1-Dichloroethane	70	2000	ND (1.5)
1,1-Dichloroethene	3.2	80	ND (1)
1,2-Dibromoethane (Ethylene Dibromide)	0.05	2	ND (0.01)
1,2-Dichlorobenzene	600	2000	ND (5)
1,2-Dichloroethane	5	5	ND (1.5)
1,3-Dichlorobenzene	320	6000	ND (5)
1,4-Dichlorobenzene	5	60	ND (5)
Acetone	7970	50000	ND (10)
Benzene	5	1000	ND (1)
Carbon tetrachloride	4.4	2	ND (1)
cis-1,2-Dichloroethene	70	20	ND (1)
Ethylbenzene	100	5000	ND (1)
m,p-Xylenes	100	NA	ND (2)
Methyl Tert Butyl Ether (MTBE)	70	5000	ND (10)
Methylene chloride (Dichloromethane)	4.6	2000	ND (1)
o-Xylene	100	NA	ND (1)
Tert-Amyl Methyl Ether (TAME)	90	NA	ND (20)
Tert-Butyl Alcohol (tert-Butanol)	120	NA	ND (100)
Tetrachloroethene	5	50	ND (1)
Toluene	100	40000	ND (1)
Trichloroethene	5	5	ND (1)
Vinyl chloride	2	2	ND (1)
Xylene (total)	100	3000	ND (1)
<b>Semi-Volatile Organic Compounds (ug/L)</b>			
bis(2-Ethylhexyl)phthalate	101	50000	ND (2.2)
Butyl benzylphthalate	190	10000	ND (5)
Diethyl phthalate	190	9000	ND (5)
Dimethyl phthalate	190	50000	ND (5)
Di-n-butylphthalate	190	5000	ND (5)
Di-n-octyl phthalate	190	100000	ND (5)
<b>Total Petroleum Hydrocarbons (ug/L)</b>			
Petroleum hydrocarbons	5000	5000	ND (4000)
<b>Inorganic Compounds (ug/L)</b>			
Chromium VI (Hexavalent), Dissolved	323	300	ND (10)
Antimony, Total	206	8000	ND (8)
Arsenic, Total	104	900	ND (2)
Cadmium, Total	10.2	4	ND (0.4)
Chromium, Total	NA	300	ND (2)
Copper, Total	242	100000	ND (2)
Hardness, Total	NA	NA	-
Iron, Total	5000	NA	ND (100)
Lead, Total	160	10	ND (2)
Mercury, Total	0.739	20	ND (0.2)
Nickel, Total	1450	200	ND (4)
Selenium, Total	235.8	100	ND (10)
Silver, Total	35.1	7	ND (0.8)
Zinc, Total	420	900	ND (20)
<b>Other</b>			
pH (lab), Total (pH units)	NA	NA	6.9
pH (field), Total (pH units)	NA	NA	6.5
Ammonia, Total (ug/L)	NA	NA	ND (75)
Chloride, Total (ug/L)	NA	NA	318000
Chlorine, residual, Total (mg/L)	0.2	NA	ND(0.02)
Hardness, Total (mg/L)	NA	NA	159
Chromium III (Trivalent), Total (ug/L)	323	600	ND (10)
Cyanide, Total (mg/L)	178	30	ND (0.005)
Total Phenols (ug/L)	1080	NA	ND (30)
Total Suspended Solids (TSS) (mg/L)	30	NA	ND (5)
<b>Pesticides and PCBs (ug/L)</b>			
Aroclor-1016 (PCB-1016)	NA	5	ND (0.25)
Aroclor-1221 (PCB-1221)	NA	5	ND (0.25)
Aroclor-1232 (PCB-1232)	NA	5	ND (0.25)
Aroclor-1242 (PCB-1242)	NA	5	ND (0.25)
Aroclor-1248 (PCB-1248)	NA	5	ND (0.25)
Aroclor-1254 (PCB-1254)	NA	5	ND (0.25)
Aroclor-1260 (PCB-1260)	NA	5	ND (0.2)
Total PCBs	6.40E-05	5	ND
<b>Semi-Volatile Organic Compounds (SIM) (ug/L)</b>			
Acenaphthene	100	6000	ND (0.1)
Acenaphthylene	100	40	ND (0.1)
Anthracene	100	30	ND (0.1)
Benzo(a)anthracene	1	1000	ND (0.1)
Benzo(a)pyrene	1	500	ND (0.1)
Benzo(b)fluoranthene	1	400	ND (0.1)
Benzo(g,h,i)perylene	100	20	ND (0.1)
Benzo(k)fluoranthene	1	100	ND (0.1)
Chrysene	1	70	ND (0.1)
Dibenz(a,h)anthracene	1	40	ND (0.1)
Fluoranthene	100	200	ND (0.1)
Fluorene	100	40	ND (0.1)
Indeno(1,2,3-cd)pyrene	1	100	ND (0.1)
Naphthalene	20	700	ND (0.1)
Pentachlorophenol	1	200	ND (1)
Phenanthrene	100	10000	ND (0.1)
Pyrene	100	20	ND (0.1)
<b>Volatile Organic Compounds SIM (ug/L)</b>			
1,4-Dioxane	200	6000	ND (5)

ABBREVIATIONS AND NOTES:

µg/L: micrograms per liter

--: Not Analyzed

bgs: below ground surface

ft: feet

MCP: 310 CMR 40.0000 Massachusetts Contingency Plan effective 25 April 2014; revisions 23 May 2014.

NA: Not Applicable

ND (2.5): Not detected, number in parentheses is the laboratory reporting limit

- Analytes detected in at least one sample are reported herein. For a complete list of analytes see the laboratory report.
- For test methods used, see the laboratory data sheets.
- Bold values indicate an exceedance of the **RGP** or **RCGW-2** criteria.
- Groundwater samples analyzed for dissolved metals were filtered in the field with a 0.45 micrometer filter.

**TABLE II**  
**SUMMARY OF SURFACE WATER QUALITY DATA**  
**250-305 WESTERN AVENUE**  
**BOSTON, MA**  
**FILE NO. 130647**

	Location Name	RECEIVING WATER
	Sample Name	RECEIVING WATER-20220203
	Sample Date	02/03/2022
	Lab Sample ID	L2205983-01
<b>Inorganic Compounds (ug/L)</b>		
Chromium VI (Hexavalent), Dissolved		ND (10)
Antimony, Total		ND (40)
Arsenic, Total		ND (10)
Cadmium, Total		<b>ND (2)</b>
Chromium, Total		ND (10)
Copper, Total		<b>33.74</b>
Hardness, Total		115000
Iron, Total		<b>6260</b>
Lead, Total		<b>32.49</b>
Mercury, Total		<b>ND (1)</b>
Nickel, Total		ND (20)
Selenium, Total		<b>ND (50)</b>
Silver, Total		<b>ND (4)</b>
Zinc, Total		<b>172.7</b>
<b>Other</b>		
pH (lab), Total (pH units)		6.8
pH (field), Total (pH units)		-
Ammonia, Total (ug/L)		1280
Chloride, Total (ug/L)		-
Chlorine, residual, Total (ug/L)		-
Hardness, Total (mg/L)		115
Chromium III (Trivalent), Total (ug/L)		ND (10)
Cyanide, Total (ug/L)		-
Total Phenols (ug/L)		-
Total Suspended Solids (TSS) (ug/L)		-

**ABBREVIATIONS AND NOTES:**

µg/L: micrograms per liter

-: Not Analyzed

bgs: below ground surface

ft: feet

MCP: 310 CMR 40.0000 Massachusetts Contingency Plan effective 25 April 2014; revision

NA: Not Applicable

ND (2.5): Not detected, number in parentheses is the laboratory reporting limit

- Analytes detected in at least one sample are reported herein. For a complete list of ana
- For test methods used, see the laboratory data sheets.
- Bold values indicate an exceedance of the **RGP** or **RCGW-2** criteria.
- Groundwater samples analyzed for dissolved metals were filtered in the field with a 0.45

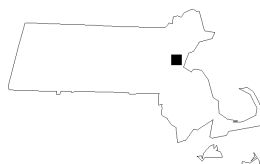
## FIGURES





MAP SOURCE: ESRI

SITE COORDINATES: 42°21'48"N, 71°8'6"W



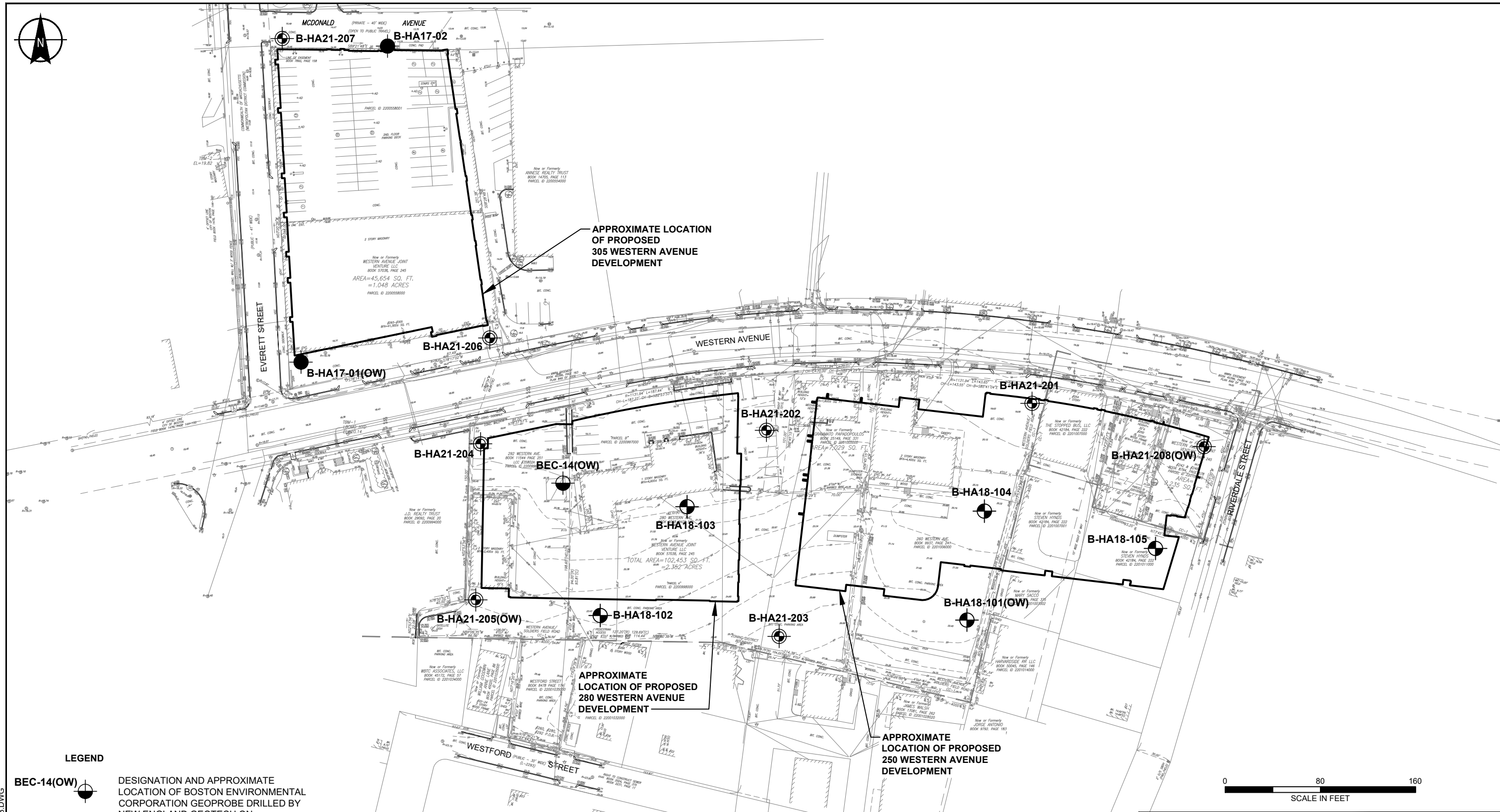
**HALEY  
ALDRICH**

PROPOSED BIOMEDICAL LABORATORY CAMPUS  
250-305 WESTERN AVENUE  
ALLSTON (BOSTON), MASSACHUSETTS

## PROJECT LOCUS

APPROXIMATE SCALE: 1 IN = 2000 FT  
AUGUST 2021

**FIGURE 1**



#### NOTES

1. BASE PLAN TAKEN FROM AN UNTITLED ELECTRONIC DRAWING RECEIVED FROM DIMELLA SHAFFER ON 21 SEPTEMBER 2018.
2. PROPOSED FEATURES TAKEN FROM AN ELECTRONIC FILE TITLED "17260 DESIGN", PROVIDED BY DIMELLA SHAFFER ON 10 JUNE 2021.
3. ELEVATIONS ARE IN FEET AND REFERENCE BOSTON CITY BASE (BCB) DATUM.

**HALEY  
ALDRICH**

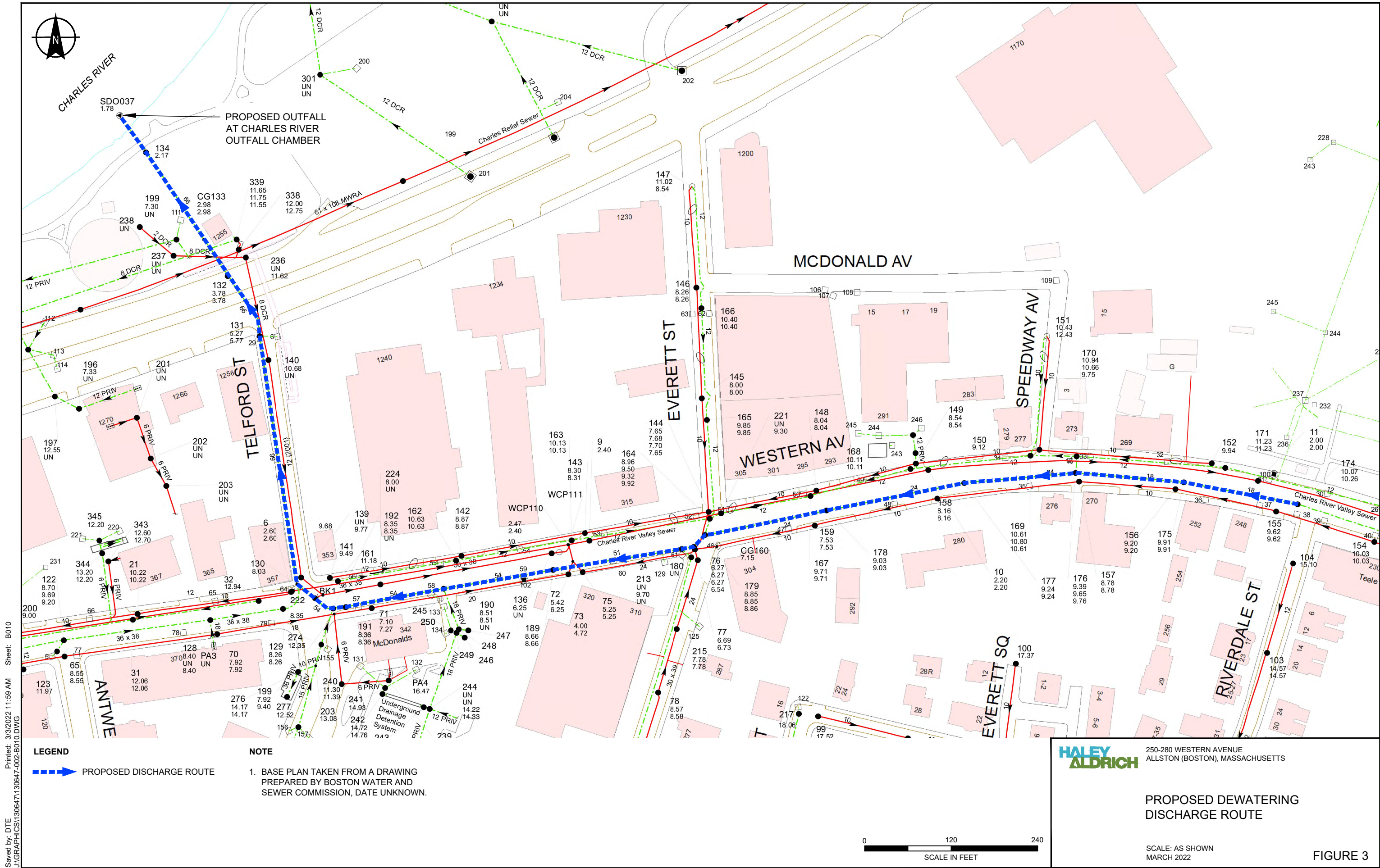
PROPOSED BIOMEDICAL LABORATORY CAMPUS  
250-305 WESTERN AVENUE  
ALLSTON (BOSTON), MASSACHUSETTS

#### SITE AND SUBSURFACE EXPLORATION LOCATION PLAN

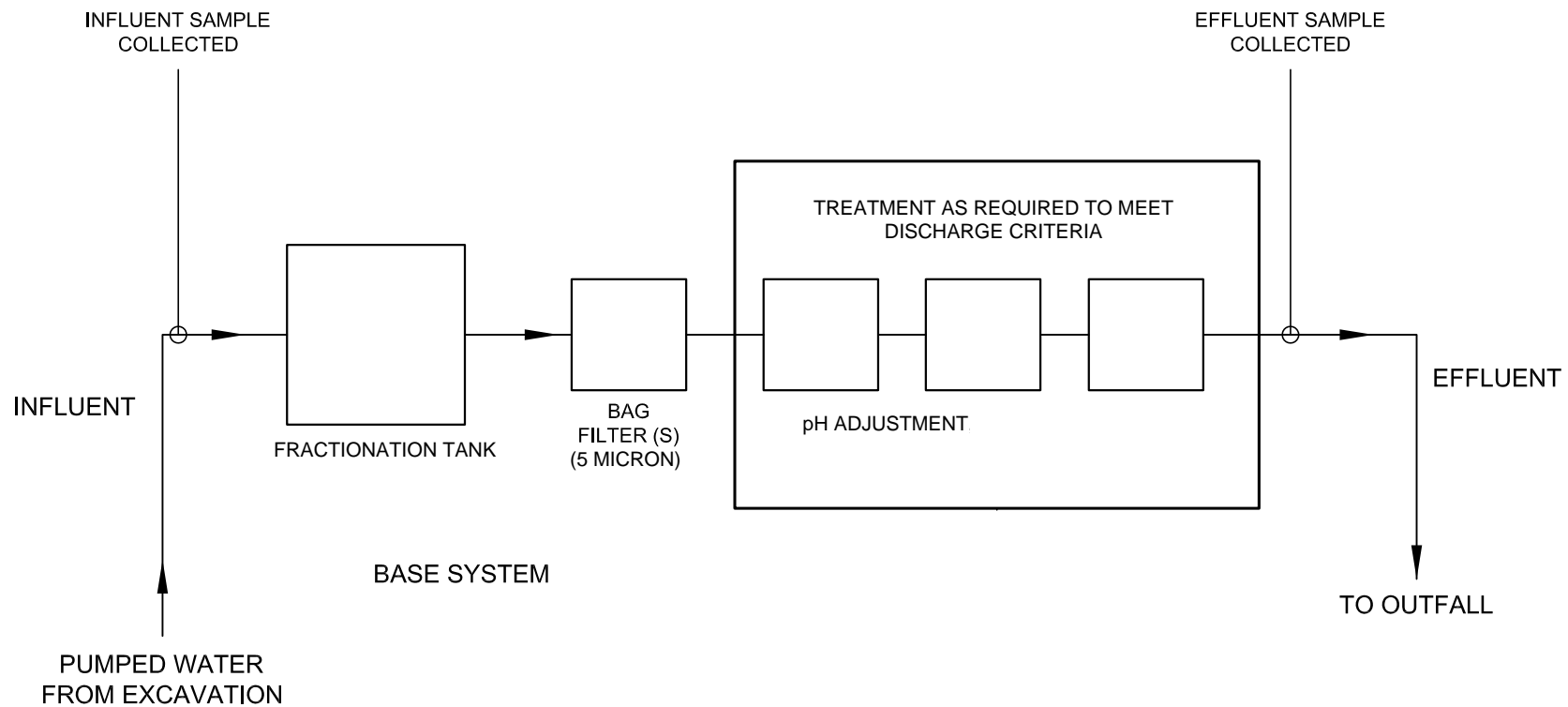
SCALE: AS SHOWN  
MARCH 2022

FIGURE 2









**LEGEND:**

—▶ DIRECTION OF FLOW

**NOTE:**

1. DETAILS OF TREATMENT SYSTEM MAY VARY FROM SYSTEM INDICATED ABOVE. SPECIFIC MEANS AND METHODS OF TREATMENT TO BE SELECTED BY CONTRACTOR. WATER WILL BE TREATED TO MEET REQUIRED EFFLUENT STANDARDS.

**HALEY  
ALDRICH**

PROPOSED BIOMEDICAL LABORATORY CAMPUS  
250-280 WESTERN AVENUE  
ALLSTON, MASSACHUSETTS

**TREATMENT SYSTEM  
SCHEMATIC**

SCALE: NONE  
MARCH 2022

**FIGURE 4**

APPENDIX A  
Notice of Intent (NOI)

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

### A. General site information:

1. Name of site: 250-280 Western Ave	Site address: 250-280 Western Ave, Allston, MA Street: Western Ave		
2. Site owner Allston Labworks Developer LLC  Owner is (check one): <input type="checkbox"/> Federal <input type="checkbox"/> State/Tribal <input checked="" type="checkbox"/> Private <input type="checkbox"/> Other; if so, specify:	City: Allston	State: MA	Zip: 02134
3. Site operator, if different than owner Consigli	Contact Person: Brian Grisaru Telephone: 413-537-4243      Email: bgrisaru@ks-prop.com		
4. NPDES permit number assigned by EPA: N/A  NPDES permit is (check all that apply): <input checked="" type="checkbox"/> RGP <input type="checkbox"/> DGP <input type="checkbox"/> CGP <input type="checkbox"/> MSGP <input type="checkbox"/> Individual NPDES permit <input type="checkbox"/> Other; if so, specify:	Mailing address: 800 Boylston Street, Suite 2400 Street: City: Boston      State: MA      Zip: 02199  Contact Person: Kris Olsen Telephone: 617-590-5166      Email: kolsen@consigli.com Mailing address: Street: 313 Congress Street City: Boston      State: MA      Zip: 02210  5. Other regulatory program(s) that apply to the site (check all that apply): <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> MA Chapter 21e; list RTN(s):   <input type="checkbox"/> NH Groundwater Management Permit or            Groundwater Release Detection Permit:         </div> <div> <input type="checkbox"/> CERCLA  <input type="checkbox"/> UIC Program  <input type="checkbox"/> POTW Pretreatment  <input type="checkbox"/> CWA Section 404         </div> </div>		

**B. Receiving water information:**

1. Name of receiving water(s): <b>Charles River</b>	Waterbody identification of receiving water(s): <b>MA72-36</b>	Classification of receiving water(s): <b>Class B, CSO</b>
Receiving water is (check any that apply): <input type="checkbox"/> Outstanding Resource Water <input type="checkbox"/> Ocean Sanctuary <input type="checkbox"/> territorial sea <input type="checkbox"/> Wild and Scenic River		
2. Has the operator attached a location map in accordance with the instructions in B, above? (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Are sensitive receptors present near the site? (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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. Listed on State's Integrated List of Waters. See next page attached for impaired designated uses/pollutants. Final TMDL for Pathogens, Nutrients.		
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.		<b>15.6</b>
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.		<b>73.2</b>
6. Has the operator received confirmation from the appropriate State for the 7Q10 and dilution factor indicated? (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, indicate date confirmation received: 3/25/2022		
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): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

**C. Source water information:**

1. Source water(s) is (check any that apply):			
<input checked="" type="checkbox"/> 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): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> 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): <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> The receiving water	<input type="checkbox"/> Potable water; if so, indicate municipality or origin:  <input type="checkbox"/> Other; if so, specify:
		<input type="checkbox"/> A surface water other than the receiving water; if so, indicate waterbody:	

Waterbody	AU_ID	Description	Size	Units	Impairment	ATTAINS Action ID
Charles River	MA72-36	From Watertown Dam (NATID: MA00456), Watertown to the Boston University Bridge, Boston/Cambridge (formerly part of 2006 segment: Charles River MA72-08).	6.10	Miles	(Fish Passage Barrier*)	
					(Flow Regime Modification*)	
					(Non-Native Fish/Shellfish/Zooplankton*)	
					(Water Chestnut*)	
					Chlorophyll-a	33826
					DDT in Fish Tissue	
					Dissolved Oxygen	
					Escherichia Coli (E. Coli)	32371
					Fish Bioassessments	
					Harmful Algal Blooms	33826
					Nutrient/Eutrophication Biological Indicators	33826
					Oil and Grease	
					PCBs in Fish Tissue	
					pH, High	
					Phosphorus, Total	33826
					Sediment Bioassay [Acute Toxicity Freshwater]	
					Transparency / Clarity	33826
					Unspecified Metals in Sediment	

Source: <https://www.mass.gov/doc/final-massachusetts-integrated-list-of-waters-for-the-clean-water-act-20182020-reporting-cycle/download>

2. Source water contaminants: see attached the Table I for detected source water contaminants	
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): <input type="checkbox"/> Yes <input type="checkbox"/> 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): <input type="checkbox"/> Yes <input type="checkbox"/> No
3. Has the source water been previously chlorinated or otherwise contains residual chlorine? (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	

#### D. Discharge information

1.The discharge(s) is a(n) (check any that apply): <input checked="" type="checkbox"/> Existing discharge <input type="checkbox"/> New discharge <input type="checkbox"/> New source	
Outfall(s): CG133	Outfall location(s): (Latitude, Longitude) N 42.364751, W 71.138276
<p>Discharges enter the receiving water(s) via (check any that apply): <input type="checkbox"/> Direct discharge to the receiving water <input checked="" type="checkbox"/> Indirect discharge, if so, specify:</p> <p>Discharge to Charles River via BWSC storm water conveyance lines</p> <p><input type="checkbox"/> A private storm sewer system <input checked="" type="checkbox"/> A municipal storm sewer system</p> <p>If the discharge enters the receiving water via a private or municipal storm sewer system:</p> <p>Has notification been provided to the owner of this system? (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Has the operator has received permission from the owner to use such system for discharges? (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, if so, explain, with an estimated timeframe for obtaining permission: BWSC permit is being submitted; approval will be received prior to the start of discharge.</p> <p>Has the operator attached a summary of any additional requirements the owner of this system has specified? (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
Provide the expected start and end dates of discharge(s) (month/year): May 2022, May 2024	
Indicate if the discharge is expected to occur over a duration of: <input type="checkbox"/> less than 12 months <input checked="" type="checkbox"/> 12 months or more <input type="checkbox"/> is an emergency discharge	
Has the operator attached a site plan in accordance with the instructions in D, above? (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

2. Activity Category: (check all that apply)	3. Contamination Type Category: (check all that apply)	
<input type="checkbox"/> I – Petroleum-Related Site Remediation <input type="checkbox"/> II – Non-Petroleum-Related Site Remediation <input checked="" type="checkbox"/> III – Contaminated Site Dewatering <input type="checkbox"/> IV – Dewatering of Pipelines and Tanks <input type="checkbox"/> V – Aquifer Pump Testing <input type="checkbox"/> VI – Well Development/Rehabilitation <input type="checkbox"/> VII – Collection Structure Dewatering/Remediation <input type="checkbox"/> VIII – Dredge-Related Dewatering	<p>a. If Activity Category I or II: (check all that apply)</p> <p><input type="checkbox"/> A. Inorganics</p> <p><input type="checkbox"/> B. Non-Halogenated Volatile Organic Compounds</p> <p><input type="checkbox"/> C. Halogenated Volatile Organic Compounds</p> <p><input type="checkbox"/> D. Non-Halogenated Semi-Volatile Organic Compounds</p> <p><input type="checkbox"/> E. Halogenated Semi-Volatile Organic Compounds</p> <p><input type="checkbox"/> F. Fuels Parameters</p>	
	<p>b. If Activity Category III, IV, V, VI, VII or VIII: (check either G or H)</p>	
	<table border="1"> <tr> <td data-bbox="970 799 1419 873"><input checked="" type="checkbox"/> G. Sites with Known Contamination</td><td data-bbox="1419 799 2003 873"><input type="checkbox"/> H. Sites with Unknown Contamination</td></tr> </table>	<input checked="" type="checkbox"/> G. Sites with Known Contamination
<input checked="" type="checkbox"/> G. Sites with Known Contamination	<input type="checkbox"/> H. Sites with Unknown Contamination	
<table border="1"> <tr> <td data-bbox="970 873 1419 1409"> <p>c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply)</p> <p><input checked="" type="checkbox"/> A. Inorganics</p> <p><input type="checkbox"/> B. Non-Halogenated Volatile Organic Compounds</p> <p><input type="checkbox"/> C. Halogenated Volatile Organic Compounds</p> <p><input type="checkbox"/> D. Non-Halogenated Semi-Volatile Organic Compounds</p> <p><input type="checkbox"/> E. Halogenated Semi-Volatile Organic Compounds</p> <p><input type="checkbox"/> F. Fuels Parameters</p> </td><td data-bbox="1419 873 2003 1409"> <p>d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply</p> </td></tr> </table>	<p>c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply)</p> <p><input checked="" type="checkbox"/> A. Inorganics</p> <p><input type="checkbox"/> B. Non-Halogenated Volatile Organic Compounds</p> <p><input type="checkbox"/> C. Halogenated Volatile Organic Compounds</p> <p><input type="checkbox"/> D. Non-Halogenated Semi-Volatile Organic Compounds</p> <p><input type="checkbox"/> E. Halogenated Semi-Volatile Organic Compounds</p> <p><input type="checkbox"/> F. Fuels Parameters</p>	<p>d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply</p>
<p>c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply)</p> <p><input checked="" type="checkbox"/> A. Inorganics</p> <p><input type="checkbox"/> B. Non-Halogenated Volatile Organic Compounds</p> <p><input type="checkbox"/> C. Halogenated Volatile Organic Compounds</p> <p><input type="checkbox"/> D. Non-Halogenated Semi-Volatile Organic Compounds</p> <p><input type="checkbox"/> E. Halogenated Semi-Volatile Organic Compounds</p> <p><input type="checkbox"/> F. Fuels Parameters</p>	<p>d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply</p>	

4. Influent and Effluent Characteristics

A. Inorganic 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	✓		1	4500NH3	75	0	0	Report mg/L	---
Chloride		✓	1	300	12.5	318000	318000	Report µg/l	---
Total Residual Chlorine	✓		1	4500CL	20	0	0	0.2 mg/L	
Total Suspended Solids	✓		1	2540D	5000	0	0	30 mg/L	---
Antimony	✓		1	200.8	8	0	0	206 µg/L	
Arsenic	✓		1	200.8	2	0	0	104 µg/L	
Cadmium	✓		1	200.8	0.4	0	0	10.2 µg/L	
Chromium III	✓		1	107		0	0	323 µg/L	
Chromium VI	✓		1	7196A	10	0	0	323 µg/L	
Copper	✓		1	200.8	2	0	0	242 µg/L	
Iron	✓		1	200.8	100	0	0	5,000 µg/L	
Lead	✓		1	200.8	2	0	0	160 µg/L	
Mercury	✓		1	245.1	0.2	0	0	0.739 µg/L	
Nickel	✓		1	200.8	4	0	0	1,450 µg/L	
Selenium	✓		1	200.8	10	0	0	235.8 µg/L	
Silver	✓		1	200.8	0.8	0	0	35.1 µg/L	
Zinc	✓		1	200.8	20	0	0	420 µg/L	
Cyanide	✓		1	4500CN	5	0	0	178 mg/L	
B. Non-Halogenated VOCs									
Total BTEX	✓		1	624.1	1	0	0	100 µg/L	---
Benzene	✓		1	624.1	1	0	0	5.0 µg/L	---
1,4 Dioxane	✓		1	624.1	5	0	0	200 µg/L	---
Acetone	✓		1	624.1	10	0	0	7.97 mg/L	---
Phenol	✓		1	420.1	30	0	0	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	✓		1	624.1	1	0	0	4.4 µg/L	
1,2 Dichlorobenzene	✓		1	624.1	5	0	0	600 µg/L	---
1,3 Dichlorobenzene	✓		1	624.1	5	0	0	320 µg/L	---
1,4 Dichlorobenzene	✓		1	624.1	5	0	0	5.0 µg/L	---
Total dichlorobenzene	✓		1	624.1	5	0	0	763 µg/L in NH	---
1,1 Dichloroethane	✓		1	624.1	1.5	0	0	70 µg/L	---
1,2 Dichloroethane	✓		1	624.1	1.5	0	0	5.0 µg/L	---
1,1 Dichloroethylene	✓		1	624.1	1	0	0	3.2 µg/L	---
Ethylene Dibromide	✓		1	624.1	0.01	0	0	0.05 µg/L	---
Methylene Chloride	✓		1	624.1	1	0	0	4.6 µg/L	---
1,1,1 Trichloroethane	✓		1	624.1	2	0	0	200 µg/L	---
1,1,2 Trichloroethane	✓		1	624.1	1.5	0	0	5.0 µg/L	---
Trichloroethylene	✓		1	624.1	1	0	0	5.0 µg/L	---
Tetrachloroethylene	✓		1	624.1	1	0	0	5.0 µg/L	
cis-1,2 Dichloroethylene	✓		1	624.1	1	0	0	70 µg/L	---
Vinyl Chloride	✓		1	624.1	1	0	0	2.0 µg/L	---
D. Non-Halogenated SVOCs									
Total Phthalates	✓		1	625.1	5	0	0	190 µg/L	
Diethylhexyl phthalate	✓		1	625.1	5	0	0	101 µg/L	
Total Group I PAHs	✓		1	625.1	0.1	0	0	1.0 µg/L	---
Benzo(a)anthracene	✓		1	625.1	0.1	0	0	As Total PAHs	
Benzo(a)pyrene	✓		1	625.1	0.1	0	0		
Benzo(b)fluoranthene	✓		1	625.1	0.1	0	0		
Benzo(k)fluoranthene	✓		1	625.1	0.1	0	0		
Chrysene	✓		1	625.1	0.1	0	0		
Dibenzo(a,h)anthracene	✓		1	625.1	0.1	0	0		
Indeno(1,2,3-cd)pyrene	✓		1	625.1	0.1	0	0		

[illegible]

### E. Treatment system information

<p>1. Indicate the type(s) of treatment that will be applied to effluent prior to discharge: (check all that apply)</p> <p> <input type="checkbox"/> Adsorption/Absorption             <input type="checkbox"/> Advanced Oxidation Processes             <input type="checkbox"/> Air Stripping             <input type="checkbox"/> Granulated Activated Carbon (“GAC”)/Liquid Phase Carbon Adsorption  <input type="checkbox"/> Ion Exchange   <input type="checkbox"/> Precipitation/Coagulation/Flocculation   <input checked="" type="checkbox"/> Separation/Filtration   <input checked="" type="checkbox"/> Other; if so, specify:            pH adjustment         </p>	
<p>2. Provide a written description of all treatment system(s) or processes that will be applied to the effluent prior to discharge.            Construction dewatering influent will be routed through a sedimentation tank followed by bag filters prior to discharge.</p> <p>Identify each major treatment component (check any that apply):</p> <p> <input checked="" type="checkbox"/> Fractionation tanks   <input type="checkbox"/> Equalization tank   <input type="checkbox"/> Oil/water separator   <input type="checkbox"/> Mechanical filter   <input type="checkbox"/> Media filter  <input type="checkbox"/> Chemical feed tank   <input type="checkbox"/> Air stripping unit   <input checked="" type="checkbox"/> Bag filter   <input checked="" type="checkbox"/> Other; if so, specify: pH adjustment         </p> <p>Indicate if either of the following will occur (check any that apply):</p> <p> <input type="checkbox"/> Chlorination   <input type="checkbox"/> De-chlorination         </p>	
<p>3. Provide the <b>design flow capacity</b> in gallons per minute (gpm) of the most limiting component.            Indicate the most limiting component: Flowmeter            Is use of a flow meter feasible? (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No, if so, provide justification:</p>	250
<p>Provide the proposed maximum effluent flow in gpm.</p>	150
<p>Provide the average effluent flow in gpm.</p>	100
<p>If Activity Category IV applies, indicate the estimated total volume of water that will be discharged:</p>	
<p>4. Has the operator attached a schematic of flow in accordance with the instructions in E, above? (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	

### F. Chemical and additive information

<p>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)</p> <p><input type="checkbox"/> Algaecides/biocides <input type="checkbox"/> Antifoams <input type="checkbox"/> Coagulants <input type="checkbox"/> Corrosion/scale inhibitors <input type="checkbox"/> Disinfectants <input type="checkbox"/> Flocculants <input type="checkbox"/> Neutralizing agents <input type="checkbox"/> Oxidants <input type="checkbox"/> Oxygen <input type="checkbox"/> scavengers <input checked="" type="checkbox"/> pH conditioners <input type="checkbox"/> Bioremedial agents, including microbes <input type="checkbox"/> Chlorine or chemicals containing chlorine <input type="checkbox"/> Other; if so, specify:</p>
<p>2. Provide the following information for each chemical/additive, using attachments, if necessary:</p> <p>Refer to attached Haley &amp; Aldrich letter</p> <p>a. Product name, chemical formula, and manufacturer of the chemical/additive;</p> <p>b. Purpose or use of the chemical/additive or remedial agent;</p> <p>c. Material Safety Data Sheet (MSDS) and Chemical Abstracts Service (CAS) Registry number for each chemical/additive;</p> <p>d. The frequency (hourly, daily, etc.), duration (hours, days), quantity (maximum and average), and method of application for the chemical/additive;</p> <p>e. Any material compatibility risks for storage and/or use including the control measures used to minimize such risks; and</p> <p>f. If available, the vendor's reported aquatic toxicity (NOAEL and/or LC50 in percent for aquatic organism(s)).</p>
<p>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): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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): <input type="checkbox"/> Yes <input type="checkbox"/> No</p>

### G. Endangered Species Act eligibility determination

<p>1. Indicate under which criterion the discharge(s) is eligible for coverage under this general permit:</p> <p><input checked="" type="checkbox"/> <b>FWS Criterion A:</b> 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”.</p> <p><input type="checkbox"/> <b>FWS Criterion B:</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): <input type="checkbox"/> Yes <input type="checkbox"/> No; if no, is consultation underway? (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> <b>FWS Criterion C:</b> 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) <input type="checkbox"/> the operator <input type="checkbox"/> EPA <input type="checkbox"/> Other; if so, specify:</p>
--

- ☐ **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.

Refer to attached Haley & Aldrich letter.

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.*

A BMPP Meeting the requirements of this general permit will be implemented upon initiation of  
BMPP certification statement: 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:



Date: 3/30/22

Print Name and Title: Kris Olsen, Site Superintendent

## APPENDIX B

### Laboratory Data Reports



## ANALYTICAL REPORT

Lab Number:	L2205983
Client:	Haley & Aldrich, Inc. 465 Medford Street, Suite 2200 Charlestown, MA 02129-1400
ATTN:	Kyle Block
Phone:	(617) 886-7440
Project Name:	155 NORTH BEACON STREET
Project Number:	0201602-000
Report Date:	02/09/22

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

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

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





**Project Name:** 155 NORTH BEACON STREET  
**Project Number:** 0201602-000

**Lab Number:** L2205983  
**Report Date:** 02/09/22

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2205983-01	RECEIVING WATER-20220203	WATER	BOSTON, MA	02/03/22 13:30	02/03/22

**Project Name:** 155 NORTH BEACON STREET  
**Project Number:** 0201602-000

**Lab Number:** L2205983  
**Report Date:** 02/09/22

### 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:** 155 NORTH BEACON STREET  
**Project Number:** 0201602-000

**Lab Number:** L2205983  
**Report Date:** 02/09/22

**Case Narrative (continued)**

Total Metals

L2205983-01: The sample has elevated detection limits due to the dilution required by the sample matrix.

Total Mercury

L2205983-01: The sample has an elevated detection limit for mercury due to the prep dilution required by the limited sample volume available for analysis.

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

Authorized Signature:



Caitlin Walukevich

Title: Technical Director/Representative

Date: 02/09/22

## **METALS**

**Project Name:** 155 NORTH BEACON STREET**Lab Number:** L2205983**Project Number:** 0201602-000**Report Date:** 02/09/22**SAMPLE RESULTS**

Lab ID: L2205983-01

Date Collected: 02/03/22 13:30

Client ID: RECEIVING WATER-20220203

Date Received: 02/03/22

Sample Location: BOSTON, MA

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
<b>Total Metals - Mansfield Lab</b>											
Antimony, Total	ND		mg/l	0.04000	--	10	02/06/22 13:09	02/09/22 11:39	EPA 3005A	3,200.8	CD
Arsenic, Total	ND		mg/l	0.01000	--	10	02/06/22 13:09	02/09/22 11:39	EPA 3005A	3,200.8	CD
Cadmium, Total	ND		mg/l	0.00200	--	10	02/06/22 13:09	02/09/22 11:39	EPA 3005A	3,200.8	CD
Chromium, Total	ND		mg/l	0.01000	--	10	02/06/22 13:09	02/09/22 11:39	EPA 3005A	3,200.8	CD
Copper, Total	0.03374		mg/l	0.01000	--	10	02/06/22 13:09	02/09/22 11:39	EPA 3005A	3,200.8	CD
Iron, Total	6.26		mg/l	0.050	--	1	02/06/22 13:09	02/06/22 20:57	EPA 3005A	19,200.7	DL
Lead, Total	0.03249		mg/l	0.01000	--	10	02/06/22 13:09	02/09/22 11:39	EPA 3005A	3,200.8	CD
Mercury, Total	ND		mg/l	0.00100	--	1	02/09/22 13:29	02/09/22 16:26	EPA 245.1	3,245.1	AC
Nickel, Total	ND		mg/l	0.02000	--	10	02/06/22 13:09	02/09/22 11:39	EPA 3005A	3,200.8	CD
Selenium, Total	ND		mg/l	0.05000	--	10	02/06/22 13:09	02/09/22 11:39	EPA 3005A	3,200.8	CD
Silver, Total	ND		mg/l	0.00400	--	10	02/06/22 13:09	02/09/22 11:39	EPA 3005A	3,200.8	CD
Zinc, Total	0.1727		mg/l	0.1000	--	10	02/06/22 13:09	02/09/22 11:39	EPA 3005A	3,200.8	CD
<b>Total Hardness by SM 2340B - Mansfield Lab</b>											
Hardness	115		mg/l	0.660	NA	1	02/06/22 13:09	02/07/22 10:56	EPA 3005A	19,200.7	GD

**General Chemistry - Mansfield Lab**

Chromium, Trivalent	ND		mg/l	0.010	--	1		02/09/22 11:39	NA	107,-	
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Project Name: 155 NORTH BEACON STREET

Lab Number: L2205983

Project Number: 0201602-000

Report Date: 02/09/22

## 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: WG1601945-1										
Iron, Total	ND		mg/l	0.050	--	1	02/06/22 13:09	02/06/22 19:05	19,200.7	DL

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Mansfield Lab for sample(s): 01 Batch: WG1601945-1										
Hardness	ND		mg/l	0.660	NA	1	02/06/22 13:09	02/07/22 12:28	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: WG1601947-1										
Antimony, Total	ND		mg/l	0.00400	--	1	02/06/22 13:09	02/07/22 08:35	3,200.8	SV
Arsenic, Total	ND		mg/l	0.00100	--	1	02/06/22 13:09	02/07/22 08:35	3,200.8	SV
Cadmium, Total	ND		mg/l	0.00020	--	1	02/06/22 13:09	02/07/22 08:35	3,200.8	SV
Chromium, Total	ND		mg/l	0.00100	--	1	02/06/22 13:09	02/07/22 08:35	3,200.8	SV
Copper, Total	ND		mg/l	0.00200	--	1	02/06/22 13:09	02/07/22 08:35	3,200.8	SV
Lead, Total	ND		mg/l	0.00100	--	1	02/06/22 13:09	02/07/22 08:35	3,200.8	SV
Nickel, Total	ND		mg/l	0.00200	--	1	02/06/22 13:09	02/07/22 08:35	3,200.8	SV
Selenium, Total	ND		mg/l	0.00500	--	1	02/06/22 13:09	02/07/22 08:35	3,200.8	SV
Silver, Total	ND		mg/l	0.00040	--	1	02/06/22 13:09	02/07/22 08:35	3,200.8	SV
Zinc, Total	ND		mg/l	0.01000	--	1	02/06/22 13:09	02/07/22 08:35	3,200.8	SV

### Prep Information

Digestion Method: EPA 3005A



**Project Name:** 155 NORTH BEACON STREET**Lab Number:** L2205983**Project Number:** 0201602-000**Report Date:** 02/09/22

## 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: WG1603119-1										
Mercury, Total	ND		mg/l	0.00020	--	1	02/09/22 13:29	02/09/22 16:19	3,245.1	AC

### Prep Information

Digestion Method: EPA 245.1

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 155 NORTH BEACON STREET**Project Number:** 0201602-000**Lab Number:** L2205983**Report Date:** 02/09/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1601945-2								
Iron, Total	100		-		85-115	-		
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01 Batch: WG1601945-2								
Hardness	103		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1601947-2								
Antimony, Total	91		-		85-115	-		
Arsenic, Total	100		-		85-115	-		
Cadmium, Total	96		-		85-115	-		
Chromium, Total	97		-		85-115	-		
Copper, Total	95		-		85-115	-		
Lead, Total	97		-		85-115	-		
Nickel, Total	98		-		85-115	-		
Selenium, Total	99		-		85-115	-		
Silver, Total	101		-		85-115	-		
Zinc, Total	97		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1603119-2								
Mercury, Total	99		-		85-115	-		



# **Matrix Spike Analysis** **Batch Quality Control**

**Project Name:** 155 NORTH BEACON STREET

**Project Number:** 0201602-000

**Lab Number:** L2205983

**Report Date:** 02/09/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1601945-3 QC Sample: L2205978-02 Client ID: MS Sample												
Iron, Total	8.21	1	9.06	85		-	-		75-125	-		20
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1601945-3 QC Sample: L2205978-02 Client ID: MS Sample												
Hardness	315	66.2	379	97		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1601947-3 QC Sample: L2205978-02 Client ID: MS Sample												
Antimony, Total	ND	0.5	0.4565	91		-	-		70-130	-		20
Arsenic, Total	0.00294	0.12	0.1202	98		-	-		70-130	-		20
Cadmium, Total	ND	0.053	0.05013	94		-	-		70-130	-		20
Chromium, Total	ND	0.2	0.1880	94		-	-		70-130	-		20
Copper, Total	ND	0.25	0.2377	95		-	-		70-130	-		20
Lead, Total	0.01433	0.53	0.5157	94		-	-		70-130	-		20
Nickel, Total	ND	0.5	0.4758	95		-	-		70-130	-		20
Selenium, Total	ND	0.12	0.1132	94		-	-		70-130	-		20
Silver, Total	ND	0.05	0.05013	100		-	-		70-130	-		20
Zinc, Total	0.01373	0.5	0.4928	96		-	-		70-130	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1603119-3 QC Sample: L2205983-01 Client ID: RECEIVING WATER-20220203												
Mercury, Total	ND	0.025	0.02294	92		-	-		70-130	-		20

**Project Name:** 155 NORTH BEACON STREET  
**Project Number:** 0201602-000

**Lab Duplicate Analysis**  
*Batch Quality Control*

**Lab Number:** L2205983  
**Report Date:** 02/09/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1601945-4 QC Sample: L2205978-02 Client ID: DUP Sample						
Iron, Total	8.21	8.12	mg/l	1		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1601947-4 QC Sample: L2205978-02 Client ID: DUP Sample						
Antimony, Total	ND	ND	mg/l	NC		20
Arsenic, Total	0.00294	0.00288	mg/l	2		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	ND	ND	mg/l	NC		20
Copper, Total	ND	ND	mg/l	NC		20
Lead, Total	0.01433	0.01435	mg/l	0		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	0.01373	0.01372	mg/l	0		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1603119-4 QC Sample: L2205983-01 Client ID: RECEIVING WATER-20220203						
Mercury, Total	ND	ND	mg/l	NC		20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** 155 NORTH BEACON STREET  
**Project Number:** 0201602-000

**Lab Number:** L2205983  
**Report Date:** 02/09/22

### SAMPLE RESULTS

**Lab ID:** L2205983-01  
**Client ID:** RECEIVING WATER-20220203  
**Sample Location:** BOSTON, MA

**Date Collected:** 02/03/22 13:30  
**Date Received:** 02/03/22  
**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										
pH (H)	6.8		SU	-	NA	1	-	02/03/22 23:04	121,4500H+-B	AS
Nitrogen, Ammonia	1.28		mg/l	0.750	--	10	02/04/22 03:15	02/04/22 20:12	121,4500NH3-BH	AT
Chromium, Hexavalent	ND		mg/l	0.010	--	1	02/04/22 08:50	02/04/22 09:04	1,7196A	KP



**Project Name:** 155 NORTH BEACON STREET  
**Project Number:** 0201602-000

**Lab Number:** L2205983  
**Report Date:** 02/09/22

**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: WG1601361-1										
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	02/04/22 03:15	02/04/22 19:54	121,4500NH3-BH	AT
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1601498-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	02/04/22 08:50	02/04/22 09:04	1,7196A	KP



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 155 NORTH BEACON STREET

**Project Number:** 0201602-000

**Lab Number:** L2205983

**Report Date:** 02/09/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1601332-1								
pH	99		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1601361-2								
Nitrogen, Ammonia	95		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1601498-2								
Chromium, Hexavalent	106		-		85-115	-		20

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** 155 NORTH BEACON STREET

**Lab Number:** L2205983

**Project Number:** 0201602-000

**Report Date:** 02/09/22

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: WG1601361-4 QC Sample: L2205978-01 Client ID: MS Sample												
Nitrogen, Ammonia	2.90	4	7.03	103		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1601498-4 QC Sample: L2205983-01 Client ID: RECEIVING WATER-20220203												
Chromium, Hexavalent	ND	0.1	0.102	102		-	-		85-115	-		20

# **Lab Duplicate Analysis** *Batch Quality Control*

**Project Name:** 155 NORTH BEACON STREET  
**Project Number:** 0201602-000

**Lab Number:** L2205983  
**Report Date:** 02/09/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1601332-2 QC Sample: L2205983-01 Client ID: RECEIVING WATER-20220203						
pH (H)	6.8	6.9	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1601361-3 QC Sample: L2205978-01 Client ID: DUP Sample						
Nitrogen, Ammonia	2.90	3.28	mg/l	12		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1601498-3 QC Sample: L2205983-01 Client ID: RECEIVING WATER-20220203						
Chromium, Hexavalent	ND	ND	mg/l	NC		20



**Project Name:** 155 NORTH BEACON STREET**Lab Number:** L2205983**Project Number:** 0201602-000**Report Date:** 02/09/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information****Cooler**                      **Custody Seal**

D                                  Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2205983-01A	Plastic 250ml unpreserved	D	7	7	3.9	Y	Absent		HEXCR-7196(1),TRICR-CALC(1),PH-4500(.01)
L2205983-01B	Plastic 250ml HNO3 preserved	D	<2	<2	3.9	Y	Absent		CD-2008T(180),NI-2008T(180),ZN-2008T(180),HARDU(180),CU-2008T(180),FE-UI(180),SE-2008T(180),AG-2008T(180),AS-2008T(180),HG-U(28),SB-2008T(180),PB-2008T(180),CR-2008T(180)
L2205983-01C	Plastic 500ml H2SO4 preserved	D	<2	<2	3.9	Y	Absent		NH3-4500(28)

**Project Name:** 155 NORTH BEACON STREET**Lab Number:** L2205983**Project Number:** 0201602-000**Report Date:** 02/09/22

## 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:** 155 NORTH BEACON STREET  
**Project Number:** 0201602-000

**Lab Number:** L2205983  
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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 for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: 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:** 155 NORTH BEACON STREET  
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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.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

**Project Name:** 155 NORTH BEACON STREET  
**Project Number:** 0201602-000

**Lab Number:** L2205983  
**Report Date:** 02/09/22

## 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.
- 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.
- 107 Alpha Analytical - In-house calculation method.
- 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.



**Alpha Analytical, Inc.**Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 19

Published Date: 4/2/2021 1:14:23 PM

Page 1 of 1

**Certification Information**

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

**Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625/625.1:** alpha-Terpineol**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**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, SM4500CI-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.



 <b>CHAIN OF CUSTODY</b>		<b>Service Centers</b> Brewer, ME 04412    Portsmouth, NH 03801 Mahwah, NJ 07430    Albany, NY 12205 Tonawanda, NY 14150    Holmes, PA 19043		Page <b>1</b> of <b>1</b>		Date Rec'd in Lab <b>2/3/22</b>		ALPHA Job # <b>L2205983</b>									
		Westborough, MA 01581    Mansfield, MA 02048 8 Walkup Dr.    320 Forbes Blvd TEL: 508-898-9220    TEL: 508-822-9300 FAX: 508-898-9193    FAX: 508-822-3288		<b>Project Information</b> Project Name: <b>155 North Beacon St.</b> Project Location: <b>Boston, MA</b> Project #: <b>0201602-000</b> (Use Project name as Project #) <input type="checkbox"/>		<b>Deliverables</b> <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> EQulS (1 File) <input checked="" type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other:		<b>Billing Information</b> <input type="checkbox"/> Same as Client Info PO #									
		<b>H&amp;A Information</b> H&A Client: <b>IQHQ, Inc.</b> H&A Address: <b>465 Medford Street, Suite 2200</b> <b>Boston, MA 02129</b> H&A Phone: <b>617.680.2293</b> H&A Fax: <b>JThibault, TCairns, KBlock</b> H&A Email:		Project Manager: <b>K. Block</b> ALPHAQuote #: <b>Turn-Around Time</b> Standard <input checked="" type="checkbox"/> Due Date: <b>5 Day</b> Rush (only if pre approved) <input type="checkbox"/> # of Days:		<b>Regulatory Requirements (Program/Criteria)</b> <b>MA 2017 NPDES RGP</b> Note: Select State from menu & identify criteria.		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:									
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Samples submitted for 2017 NPDES RGP application; please follow approved testing methods and minimum detection levels as required by EPA.		<b>ANALYSIS</b>		<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input checked="" type="checkbox"/> Lab to do (Please Specify below)		<b>TOTAL BOTTLES</b>											
Please specify Metals or TAL.		1. VOCs 624.1 & 624.1-SIM 2. SVOCs 625.1 & 625.1-SIM 3. TSS 2540, TRC 4500, CI 300, TCN 4. PCBs 608, EDB 504, TPENOL, TPH 1664 5. Ammonia (NH3), Hex Cr, Hardness, pH 6. Ethanol 7. Total NPDES RGP Metals 8. NPDES RGP Metals (Field Filtered) (ON)		Sample Specific Comments													
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date    Time		Sample Matrix	Sampler Initials	Depth	1. VOCs 624.1 & 624.1-SIM	2. SVOCs 625.1 & 625.1-SIM	3. TSS 2540, TRC 4500, CI 300, TCN	4. PCBs 608, EDB 504, TPENOL, TPH 1664	5. Ammonia (NH3), Hex Cr, Hardness, pH	6. Ethanol	7. Total NPDES RGP Metals	8. NPDES RGP Metals (Field Filtered) (ON)	Sample Specific Comments	TOTAL BOTTLES	
	CS983 -01	Receiving Water	20220203	2/3	1330	AQ	SRP	-				X		X		1. 1,4-Dioxane by 624.1-SIM	3
																6. Sub Ethanol	
																7. NPDES RGP Metals	
																includes: Ag, As, Cd, Cr, Ti O	
																Cu, Ni, Pb, Sb, Se, Zn, Fe, Hg	
																8. Field Filtered NPDES RGP	
																Metals (ON HOLD)	
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle	Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type		Preservative										Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2019-22-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.	
		Relinquished By:		Date/Time		Received By:		Date/Time									
		[Signature]		2/3/22 1430		[Signature]		2/3/22 1430									
		[Signature]		2/3/22 1430		[Signature]		2/3 16:30									
		[Signature]		2/3 18:10		[Signature]		2/3/22 18:10									



## ANALYTICAL REPORT

Lab Number:	L2213085
Client:	Haley & Aldrich, Inc. 465 Medford Street, Suite 2200 Charlestown, MA 02129-1400
ATTN:	Scott Bamford
Phone:	(617) 886-7420
Project Name:	250-280 WESTERN AVE
Project Number:	130647-002
Report Date:	03/28/22

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

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

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





**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2213085-01	OW-14-20220311	WATER	BOSTON, MA	03/11/22 11:30	03/11/22

**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

### 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.

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**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

### Case Narrative (continued)

#### Report Revision

March 28, 2022: This report includes the results of the Total Hardness and pH analyses performed on L2213085-01.

#### Report Submission

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.

#### Volatile Organics by SIM

The WG1617245-3 LCS recovery, associated with L2213085-01, is above the acceptance criteria for 1,4-dioxane (220%); however, the associated sample is non-detect to the RL for this target analyte. The results of the original analysis are reported.

#### Total Metals

L2213085-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

#### Phenolics, Total

WG1616143: A Matrix Spike and Laboratory Duplicate were prepared with the sample batch, however, the native sample was not available for reporting; therefore, the results could not be reported.

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

Authorized Signature:



Caitlin Walukevich

Title: Technical Director/Representative

Date: 03/28/22

# ORGANICS

# **VOLATILES**

**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

**SAMPLE RESULTS**

**Lab ID:** L2213085-01  
**Client ID:** OW-14-20220311  
**Sample Location:** BOSTON, MA

**Date Collected:** 03/11/22 11:30  
**Date Received:** 03/11/22  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Water  
**Analytical Method:** 128,624.1  
**Analytical Date:** 03/17/22 10:42  
**Analyst:** MKS

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:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

**SAMPLE RESULTS**

**Lab ID:** L2213085-01  
**Client ID:** OW-14-20220311  
**Sample Location:** BOSTON, MA

**Date Collected:** 03/11/22 11:30  
**Date Received:** 03/11/22  
**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	92		60-140
Fluorobenzene	103		60-140
4-Bromofluorobenzene	98		60-140

**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

**SAMPLE RESULTS**

**Lab ID:** L2213085-01  
**Client ID:** OW-14-20220311  
**Sample Location:** BOSTON, MA

**Date Collected:** 03/11/22 11:30  
**Date Received:** 03/11/22  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Water  
**Analytical Method:** 128,624.1-SIM  
**Analytical Date:** 03/17/22 10:42  
**Analyst:** MKS

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

1,4-Dioxane	ND		ug/l	5.0	--	1
-------------	----	--	------	-----	----	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Fluorobenzene	118		60-140
4-Bromofluorobenzene	79		60-140



**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

**SAMPLE RESULTS**

**Lab ID:** L2213085-01  
**Client ID:** OW-14-20220311  
**Sample Location:** BOSTON, MA

**Date Collected:** 03/11/22 11:30  
**Date Received:** 03/11/22  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Water  
**Analytical Method:** 14,504.1  
**Analytical Date:** 03/16/22 17:09  
**Analyst:** GT

**Extraction Method:** EPA 504.1  
**Extraction Date:** 03/16/22 14:08

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

**Project Name:** 250-280 WESTERN AVE**Project Number:** 130647-002**Lab Number:** L2213085**Report Date:** 03/28/22**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 14,504.1  
Analytical Date: 03/16/22 15:56  
Analyst: GT

Extraction Method: EPA 504.1  
Extraction Date: 03/16/22 14:08

Parameter	Result	Qualifier	Units	RL	MDL
Microextractables by GC - Westborough Lab for sample(s): 01 Batch: WG1616381-1					
1,2-Dibromoethane	ND		ug/l	0.010	-- A

Project Name: 250-280 WESTERN AVE

Lab Number: L2213085

Project Number: 130647-002

Report Date: 03/28/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 128,624.1  
 Analytical Date: 03/17/22 06:43  
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1616833-4					
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:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 128,624.1  
Analytical Date: 03/17/22 06:43  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1616833-4					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	94		60-140
Fluorobenzene	105		60-140
4-Bromofluorobenzene	100		60-140

**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 128,624.1-SIM  
 Analytical Date: 03/17/22 06:43  
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1617245-4					
1,4-Dioxane	ND		ug/l	5.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Fluorobenzene	120		60-140
4-Bromofluorobenzene	79		60-140

**Lab Control Sample Analysis**  
Batch Quality Control**Project Name:** 250-280 WESTERN AVE**Project Number:** 130647-002**Lab Number:** L2213085**Report Date:** 03/28/22

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>	<b>Column</b>
Microextractables by GC - Westborough Lab Associated sample(s): 01 Batch: WG1616381-2									
1,2-Dibromoethane	102		-		80-120	-			A

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** 250-280 WESTERN AVE

**Project Number:** 130647-002

**Lab Number:** L2213085

**Report Date:** 03/28/22

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: WG1616833-3								
Methylene chloride	115		-		60-140	-		28
1,1-Dichloroethane	105		-		50-150	-		49
Carbon tetrachloride	85		-		70-130	-		41
1,1,2-Trichloroethane	105		-		70-130	-		45
Tetrachloroethene	100		-		70-130	-		39
1,2-Dichloroethane	85		-		70-130	-		49
1,1,1-Trichloroethane	90		-		70-130	-		36
Benzene	120		-		65-135	-		61
Toluene	110		-		70-130	-		41
Ethylbenzene	135		-		60-140	-		63
Vinyl chloride	80		-		5-195	-		66
1,1-Dichloroethene	120		-		50-150	-		32
cis-1,2-Dichloroethene	120		-		60-140	-		30
Trichloroethene	110		-		65-135	-		48
1,2-Dichlorobenzene	120		-		65-135	-		57
1,3-Dichlorobenzene	120		-		70-130	-		43
1,4-Dichlorobenzene	120		-		65-135	-		57
p/m-Xylene	120		-		60-140	-		30
o-xylene	120		-		60-140	-		30
Acetone	78		-		40-160	-		30
Methyl tert butyl ether	95		-		60-140	-		30
Tert-Butyl Alcohol	84		-		60-140	-		30
Tertiary-Amyl Methyl Ether	105		-		60-140	-		30

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 250-280 WESTERN AVE

**Lab Number:** L2213085

**Project Number:** 130647-002

**Report Date:** 03/28/22

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1616833-3								

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
Pentafluorobenzene	93				60-140
Fluorobenzene	105				60-140
4-Bromofluorobenzene	103				60-140



**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 250-280 WESTERN AVE**Project Number:** 130647-002**Lab Number:** L2213085**Report Date:** 03/28/22

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1617245-3								
1,4-Dioxane	220	Q	-		60-140	-		20

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
Fluorobenzene	121				60-140
4-Bromofluorobenzene	79				60-140

**Matrix Spike Analysis***Batch Quality Control***Project Name:** 250-280 WESTERN AVE**Project Number:** 130647-002**Lab Number:** L2213085**Report Date:** 03/28/22

<b>Parameter</b>	<b>Native Sample</b>	<b>MS Added</b>	<b>MS Found</b>	<b>MS %Recovery</b>	<b>Qual</b>	<b>MSD Found</b>	<b>MSD %Recovery</b>	<b>Qual</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>	<b>Column</b>
Microextractables by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1616381-3 QC Sample: L2211464-11 Client ID: MS Sample													
1,2-Dibromoethane	ND	0.245	0.252	103		-	-		80-120	-		20	A
1,2-Dibromo-3-chloropropane	ND	0.245	0.261	107		-	-		80-120	-		20	A
1,2,3-Trichloropropane	ND	0.245	0.235	96		-	-		80-120	-		20	A

# SEMIVOLATILES

**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

**SAMPLE RESULTS**

**Lab ID:** L2213085-01  
**Client ID:** OW-14-20220311  
**Sample Location:** BOSTON, MA

**Date Collected:** 03/11/22 11:30  
**Date Received:** 03/11/22  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Water  
**Analytical Method:** 129,625.1  
**Analytical Date:** 03/17/22 14:40  
**Analyst:** SZ

**Extraction Method:** EPA 625.1  
**Extraction Date:** 03/16/22 23:54

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	61		42-122
2-Fluorobiphenyl	59		46-121
4-Terphenyl-d14	60		47-138

**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

**SAMPLE RESULTS**

**Lab ID:** L2213085-01  
**Client ID:** OW-14-20220311  
**Sample Location:** BOSTON, MA

**Date Collected:** 03/11/22 11:30  
**Date Received:** 03/11/22  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Water  
**Analytical Method:** 129,625.1-SIM  
**Analytical Date:** 03/17/22 12:16  
**Analyst:** RP

**Extraction Method:** EPA 625.1  
**Extraction Date:** 03/16/22 23:57

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	50		25-87
Phenol-d6	35		16-65
Nitrobenzene-d5	68		42-122
2-Fluorobiphenyl	58		46-121
2,4,6-Tribromophenol	74		45-128
4-Terphenyl-d14	69		47-138

**Project Name:** 250-280 WESTERN AVE**Project Number:** 130647-002**Lab Number:** L2213085**Report Date:** 03/28/22**Method Blank Analysis**  
**Batch Quality Control**Analytical Method: 129,625.1  
Analytical Date: 03/17/22 10:05  
Analyst: WRExtraction Method: EPA 625.1  
Extraction Date: 03/16/22 23:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1616551-1					
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	54		42-122
2-Fluorobiphenyl	52		46-121
4-Terphenyl-d14	50		47-138

**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

### Method Blank Analysis Batch Quality Control

**Analytical Method:** 129,625.1-SIM  
**Analytical Date:** 03/17/22 11:26  
**Analyst:** JJW

**Extraction Method:** EPA 625.1  
**Extraction Date:** 03/16/22 23:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1616552-1					
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	63		25-87
Phenol-d6	45		16-65
Nitrobenzene-d5	81		42-122
2-Fluorobiphenyl	70		46-121
2,4,6-Tribromophenol	91		45-128
4-Terphenyl-d14	84		47-138



**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 250-280 WESTERN AVE**Project Number:** 130647-002**Lab Number:** L2213085**Report Date:** 03/28/22

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1616551-2								
Bis(2-ethylhexyl)phthalate	50		-		29-137	-		82
Butyl benzyl phthalate	54		-		1-140	-		60
Di-n-butylphthalate	52		-		8-120	-		47
Di-n-octylphthalate	51		-		19-132	-		69
Diethyl phthalate	51		-		1-120	-		100
Dimethyl phthalate	52		-		1-120	-		183

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
Nitrobenzene-d5	53				42-122
2-Fluorobiphenyl	51				46-121
4-Terphenyl-d14	53				47-138



# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** 250-280 WESTERN AVE

**Project Number:** 130647-002

**Lab Number:** L2213085

**Report Date:** 03/28/22

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: WG1616552-3								
Acenaphthene	67		-		60-132	-		30
Fluoranthene	76		-		43-121	-		30
Naphthalene	65		-		36-120	-		30
Benzo(a)anthracene	82		-		42-133	-		30
Benzo(a)pyrene	77		-		32-148	-		30
Benzo(b)fluoranthene	78		-		42-140	-		30
Benzo(k)fluoranthene	72		-		25-146	-		30
Chrysene	64		-		44-140	-		30
Acenaphthylene	71		-		54-126	-		30
Anthracene	71		-		43-120	-		30
Benzo(ghi)perylene	75		-		1-195	-		30
Fluorene	71		-		70-120	-		30
Phenanthrene	66		-		65-120	-		30
Dibenzo(a,h)anthracene	83		-		1-200	-		30
Indeno(1,2,3-cd)pyrene	86		-		1-151	-		30
Pyrene	77		-		70-120	-		30
Pentachlorophenol	78		-		38-152	-		30

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 250-280 WESTERN AVE**Project Number:** 130647-002**Lab Number:** L2213085**Report Date:** 03/28/22

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1616552-3

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
2-Fluorophenol	58				25-87
Phenol-d6	42				16-65
Nitrobenzene-d5	74				42-122
2-Fluorobiphenyl	64				46-121
2,4,6-Tribromophenol	82				45-128
4-Terphenyl-d14	72				47-138

# PCBS

**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

**SAMPLE RESULTS**

**Lab ID:** L2213085-01  
**Client ID:** OW-14-20220311  
**Sample Location:** BOSTON, MA

**Date Collected:** 03/11/22 11:30  
**Date Received:** 03/11/22  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Water  
**Analytical Method:** 127,608.3  
**Analytical Date:** 03/19/22 11:10  
**Analyst:** KB

**Extraction Method:** EPA 608.3  
**Extraction Date:** 03/18/22 10:33  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 03/18/22  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 03/18/22

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	61		37-123	B
Decachlorobiphenyl	70		38-114	B
2,4,5,6-Tetrachloro-m-xylene	59		37-123	A
Decachlorobiphenyl	72		38-114	A

**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 127,608.3  
 Analytical Date: 03/19/22 10:31  
 Analyst: JWL

Extraction Method: EPA 608.3  
 Extraction Date: 03/18/22 10:33  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 03/18/22  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 03/18/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1617229-1						
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	64		37-123	B
Decachlorobiphenyl	70		38-114	B
2,4,5,6-Tetrachloro-m-xylene	62		37-123	A
Decachlorobiphenyl	71		38-114	A

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 250-280 WESTERN AVE**Project Number:** 130647-002**Lab Number:** L2213085**Report Date:** 03/28/22

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>	<b>Column</b>
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1617229-2									
Aroclor 1016	68		-		50-140	-		36	A
Aroclor 1260	68		-		8-140	-		38	A

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>	<b>Column</b>
2,4,5,6-Tetrachloro-m-xylene	60				37-123	B
Decachlorobiphenyl	67				38-114	B
2,4,5,6-Tetrachloro-m-xylene	61				37-123	A
Decachlorobiphenyl	69				38-114	A

## METALS

**Project Name:** 250-280 WESTERN AVE**Lab Number:** L2213085**Project Number:** 130647-002**Report Date:** 03/28/22**SAMPLE RESULTS**

Lab ID: L2213085-01

Date Collected: 03/11/22 11:30

Client ID: OW-14-20220311

Date Received: 03/11/22

Sample Location: BOSTON, MA

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
<b>Total Metals - Mansfield Lab</b>											
Antimony, Total	ND		mg/l	0.00800	--	2	03/15/22 03:54	03/15/22 13:23	EPA 3005A	3,200.8	SV
Arsenic, Total	ND		mg/l	0.00200	--	2	03/15/22 03:54	03/15/22 13:23	EPA 3005A	3,200.8	SV
Cadmium, Total	ND		mg/l	0.00040	--	2	03/15/22 03:54	03/15/22 13:23	EPA 3005A	3,200.8	SV
Chromium, Total	ND		mg/l	0.00200	--	2	03/15/22 03:54	03/15/22 13:23	EPA 3005A	3,200.8	SV
Copper, Total	ND		mg/l	0.00200	--	2	03/15/22 03:54	03/15/22 13:23	EPA 3005A	3,200.8	SV
Iron, Total	ND		mg/l	0.1000	--	2	03/15/22 03:54	03/15/22 13:23	EPA 3005A	3,200.8	SV
Lead, Total	ND		mg/l	0.00200	--	2	03/15/22 03:54	03/15/22 13:23	EPA 3005A	3,200.8	SV
Mercury, Total	ND		mg/l	0.00020	--	1	03/15/22 07:02	03/17/22 11:53	EPA 245.1	3,245.1	ZK
Nickel, Total	ND		mg/l	0.00400	--	2	03/15/22 03:54	03/15/22 13:23	EPA 3005A	3,200.8	SV
Selenium, Total	ND		mg/l	0.01000	--	2	03/15/22 03:54	03/15/22 13:23	EPA 3005A	3,200.8	SV
Silver, Total	ND		mg/l	0.00080	--	2	03/15/22 03:54	03/15/22 13:23	EPA 3005A	3,200.8	SV
Zinc, Total	ND		mg/l	0.02000	--	2	03/15/22 03:54	03/15/22 13:23	EPA 3005A	3,200.8	SV
<b>Total Hardness by SM 2340B - Mansfield Lab</b>											
Hardness	159		mg/l	0.660	NA	1	03/25/22 11:38	03/25/22 15:45	EPA 3005A	19,200.7	BV

**General Chemistry - Mansfield Lab**

Chromium, Trivalent	ND		mg/l	0.010	--	1	03/15/22 13:23	NA	107,-	
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**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

## 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: WG1615518-1										
Mercury, Total	ND		mg/l	0.00020	--	1	03/15/22 07:02	03/17/22 11:27	3,245.1	ZK

### Prep Information

Digestion Method: EPA 245.1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1615626-1										
Antimony, Total	ND		mg/l	0.00400	--	1	03/15/22 03:54	03/15/22 09:20	3,200.8	SV
Arsenic, Total	ND		mg/l	0.00100	--	1	03/15/22 03:54	03/15/22 09:20	3,200.8	SV
Cadmium, Total	ND		mg/l	0.00020	--	1	03/15/22 03:54	03/15/22 09:20	3,200.8	SV
Chromium, Total	ND		mg/l	0.00100	--	1	03/15/22 03:54	03/15/22 09:20	3,200.8	SV
Copper, Total	ND		mg/l	0.00100	--	1	03/15/22 03:54	03/15/22 09:20	3,200.8	SV
Iron, Total	ND		mg/l	0.05000	--	1	03/15/22 03:54	03/15/22 09:20	3,200.8	SV
Lead, Total	ND		mg/l	0.00100	--	1	03/15/22 03:54	03/15/22 09:20	3,200.8	SV
Nickel, Total	ND		mg/l	0.00200	--	1	03/15/22 03:54	03/15/22 09:20	3,200.8	SV
Selenium, Total	ND		mg/l	0.00500	--	1	03/15/22 03:54	03/15/22 09:20	3,200.8	SV
Silver, Total	ND		mg/l	0.00040	--	1	03/15/22 03:54	03/15/22 09:20	3,200.8	SV
Zinc, Total	ND		mg/l	0.01000	--	1	03/15/22 03:54	03/15/22 09:20	3,200.8	SV

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Mansfield Lab for sample(s): 01 Batch: WG1619774-1										
Hardness	ND		mg/l	0.660	NA	1	03/25/22 11:38	03/25/22 15:35	19,200.7	BV



**Project Name:** 250-280 WESTERN AVE

**Lab Number:** L2213085

**Project Number:** 130647-002

**Report Date:** 03/28/22

## **Method Blank Analysis Batch Quality Control**

### **Prep Information**

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Digestion Method: EPA 3005A

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 250-280 WESTERN AVE

**Project Number:** 130647-002

**Lab Number:** L2213085

**Report Date:** 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1615518-2								
Mercury, Total	96		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1615626-2								
Antimony, Total	88		-		85-115	-		
Arsenic, Total	98		-		85-115	-		
Cadmium, Total	96		-		85-115	-		
Chromium, Total	96		-		85-115	-		
Copper, Total	93		-		85-115	-		
Iron, Total	96		-		85-115	-		
Lead, Total	101		-		85-115	-		
Nickel, Total	94		-		85-115	-		
Selenium, Total	98		-		85-115	-		
Silver, Total	98		-		85-115	-		
Zinc, Total	93		-		85-115	-		
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01 Batch: WG1619774-2								
Hardness	102		-		85-115	-		

# **Matrix Spike Analysis** **Batch Quality Control**

**Project Name:** 250-280 WESTERN AVE

**Project Number:** 130647-002

**Lab Number:** L2213085

**Report Date:** 03/28/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01			QC Batch ID: WG1615518-3			QC Sample: L2212915-01			Client ID: MS Sample			
Mercury, Total	ND	0.005	0.00489	98		-	-		70-130	-		20
Total Metals - Mansfield Lab Associated sample(s): 01			QC Batch ID: WG1615626-3			QC Sample: L2213089-01			Client ID: MS Sample			
Antimony, Total	ND	0.5	0.5262	105		-	-		70-130	-		20
Arsenic, Total	0.02689	0.12	0.1449	98		-	-		70-130	-		20
Cadmium, Total	ND	0.053	0.04788	90		-	-		70-130	-		20
Chromium, Total	ND	0.2	0.1686	84		-	-		70-130	-		20
Copper, Total	ND	0.25	0.2285	91		-	-		70-130	-		20
Iron, Total	2.656	1	3.414	76		-	-		70-130	-		20
Lead, Total	ND	0.53	0.5428	102		-	-		70-130	-		20
Nickel, Total	ND	0.5	0.4729	94		-	-		70-130	-		20
Selenium, Total	ND	0.12	0.1036	86		-	-		70-130	-		20
Silver, Total	ND	0.05	0.04394	88		-	-		70-130	-		20
Zinc, Total	ND	0.5	0.4261	85		-	-		70-130	-		20

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** 250-280 WESTERN AVE

**Project Number:** 130647-002

**Lab Number:** L2213085

**Report Date:** 03/28/22

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: WG1615626-5 QC Sample: L2213089-02 Client ID: MS Sample									
Antimony, Total	ND	0.5	0.4836	97	-	-	70-130	-	20
Arsenic, Total	0.02391	0.12	0.1443	100	-	-	70-130	-	20
Cadmium, Total	ND	0.053	0.04761	90	-	-	70-130	-	20
Chromium, Total	ND	0.2	0.1534	77	-	-	70-130	-	20
Copper, Total	ND	0.25	0.2246	90	-	-	70-130	-	20
Iron, Total	ND	1	0.9284	93	-	-	70-130	-	20
Lead, Total	ND	0.53	0.4711	89	-	-	70-130	-	20
Nickel, Total	ND	0.5	0.4671	93	-	-	70-130	-	20
Selenium, Total	ND	0.12	0.1049	87	-	-	70-130	-	20
Silver, Total	ND	0.05	0.04535	91	-	-	70-130	-	20
Zinc, Total	ND	0.5	0.4175	84	-	-	70-130	-	20
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1619774-3 QC Sample: L2213085-01 Client ID: OW-14-20220311									
Hardness	159	66.2	224	98	-	-	75-125	-	20

**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Duplicate Analysis**  
*Batch Quality Control*

**Lab Number:** L2213085  
**Report Date:** 03/28/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1615518-4 QC Sample: L2212915-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1615626-4 QC Sample: L2213089-01 Client ID: DUP Sample						
Antimony, Total	ND	ND	mg/l	NC		20
Arsenic, Total	0.02689	0.02674	mg/l	1		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	ND	ND	mg/l	NC		20
Copper, Total	ND	ND	mg/l	NC		20
Lead, Total	ND	ND	mg/l	NC		20
Nickel, Total	ND	ND	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Zinc, Total	ND	ND	mg/l	NC		20

# **Lab Duplicate Analysis** *Batch Quality Control*

**Project Name:** 250-280 WESTERN AVE

**Project Number:** 130647-002

**Lab Number:** L2213085

**Report Date:** 03/28/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1615626-6 QC Sample: L2213089-02 Client ID: DUP Sample					
Antimony, Total	ND	ND	mg/l	NC	20
Arsenic, Total	0.02391	0.02394	mg/l	0	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Copper, Total	ND	ND	mg/l	NC	20
Lead, Total	ND	ND	mg/l	NC	20
Nickel, Total	ND	ND	mg/l	NC	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1619774-4 QC Sample: L2213085-01 Client ID: OW-14-20220311					
Hardness	159	159	mg/l	0	20

# **INORGANICS & MISCELLANEOUS**



**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

### SAMPLE RESULTS

**Lab ID:** L2213085-01  
**Client ID:** OW-14-20220311  
**Sample Location:** BOSTON, MA

**Date Collected:** 03/11/22 11:30  
**Date Received:** 03/11/22  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	03/16/22 20:00	121,2540D	MD
Cyanide, Total	ND		mg/l	0.005	--	1	03/18/22 06:00	03/18/22 11:17	121,4500CN-CE	CS
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	03/12/22 00:10	121,4500CL-D	DT
pH (H)	6.9		SU	-	NA	1	-	03/23/22 22:06	121,4500H+-B	AS
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	03/15/22 02:15	03/15/22 21:21	121,4500NH3-BH	AT
TPH, SGT-HEM	ND		mg/l	4.00	--	1	03/21/22 19:15	03/21/22 19:45	140,1664B	TL
Phenolics, Total	ND		mg/l	0.030	--	1	03/16/22 07:17	03/16/22 11:42	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	--	1	03/12/22 05:30	03/12/22 05:48	1,7196A	MR
<b>Anions by Ion Chromatography - Westborough Lab</b>										
Chloride	318.		mg/l	12.5	--	25	-	03/13/22 15:14	44,300.0	SH



Project Name: 250-280 WESTERN AVE

Lab Number: L2213085

Project Number: 130647-002

Report Date: 03/28/22

### 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: WG1614807-1										
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	03/12/22 00:10	121,4500CL-D	DT
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1614832-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	03/12/22 05:30	03/12/22 05:43	1,7196A	MR
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG1615116-1										
Chloride	ND		mg/l	0.500	--	1	-	03/13/22 13:03	44,300.0	SH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1615584-1										
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	03/15/22 02:15	03/15/22 20:49	121,4500NH3-BH	AT
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1616143-1										
Phenolics, Total	ND		mg/l	0.030	--	1	03/16/22 07:17	03/16/22 11:38	4,420.1	KP
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1616504-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	03/16/22 20:00	121,2540D	MD
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1617054-1										
Cyanide, Total	ND		mg/l	0.005	--	1	03/18/22 06:00	03/18/22 10:58	121,4500CN-CE	CS
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1618028-1										
TPH, SGT-HEM	ND		mg/l	4.00	--	1	03/21/22 19:15	03/21/22 19:45	140,1664B	TL



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 250-280 WESTERN AVE

**Project Number:** 130647-002

**Lab Number:** L2213085

**Report Date:** 03/28/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1614807-2								
Chlorine, Total Residual	96		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1614832-2								
Chromium, Hexavalent	102		-		85-115	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG1615116-2								
Chloride	102		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1615584-2								
Nitrogen, Ammonia	90		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1616143-2								
Phenolics, Total	105		-		70-130	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1616504-2								
Solids, Total Suspended	99		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1617054-2								
Cyanide, Total	91		-		90-110	-		

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** 250-280 WESTERN AVE**Project Number:** 130647-002**Lab Number:** L2213085**Report Date:** 03/28/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1618028-2					
TPH	74	-	64-132	-	34
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1619085-1					
pH	100	-	99-101	-	5

# Matrix Spike Analysis

## Batch Quality Control

Project Name: 250-280 WESTERN AVE

Project Number: 130647-002

Lab Number: L2213085

Report Date: 03/28/22

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: WG1614807-4 QC Sample: L2213000-02 Client ID: MS Sample												
Chlorine, Total Residual	ND	0.25	0.21	84		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1614832-4 QC Sample: L2213085-01 Client ID: OW-14-20220311												
Chromium, Hexavalent	ND	0.1	0.097	97		-	-		85-115	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1615116-3 QC Sample: L2210735-04 Client ID: MS Sample												
Chloride	8.98	4	12.7	92		-	-		90-110	-		18
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1615584-4 QC Sample: L2213107-01 Client ID: MS Sample												
Nitrogen, Ammonia	0.170	4	3.90	93		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1617054-4 QC Sample: L2213000-01 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.179	90		-	-		90-110	-		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1618028-4 QC Sample: L2213089-02 Client ID: MS Sample												
TPH	ND	20.2	16.1	80		-	-		64-132	-		34

## Lab Duplicate Analysis

*Batch Quality Control*

**Project Name:** 250-280 WESTERN AVE

**Project Number:** 130647-002

**Lab Number:** L2213085

**Report Date:** 03/28/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1614807-3 QC Sample: L2213000-01 Client ID: DUP Sample						
Chlorine, Total Residual	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1614832-3 QC Sample: L2213085-01 Client ID: OW-14-20220311						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1615116-4 QC Sample: L2210735-04 Client ID: DUP Sample						
Chloride	8.98	9.01	mg/l	0		18
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1615584-3 QC Sample: L2213107-01 Client ID: DUP Sample						
Nitrogen, Ammonia	0.170	0.121	mg/l	34	Q	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1616504-3 QC Sample: L2212879-02 Client ID: DUP Sample						
Solids, Total Suspended	22	25	mg/l	13		29
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1617054-3 QC Sample: L2213085-01 Client ID: OW-14-20220311						
Cyanide, Total	ND	ND	mg/l	NC		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1618028-3 QC Sample: L2213085-01 Client ID: OW-14-20220311						
TPH, SGT-HEM	ND	ND	mg/l	NC		34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1619085-2 QC Sample: L2213085-01 Client ID: OW-14-20220311						
pH (H)	6.9	6.9	SU	0		5

**Project Name:** 250-280 WESTERN AVE**Lab Number:** L2213085**Project Number:** 130647-002**Report Date:** 03/28/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
A	Absent
B	Absent
D	Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2213085-01A	Vial Na2S2O3 preserved	B	NA		2.8	Y	Absent		624.1-RGP(7),624.1-SIM-RGP(7)
L2213085-01A1	Vial Na2S2O3 preserved	B	NA		2.8	Y	Absent		624.1-RGP(7),624.1-SIM-RGP(7)
L2213085-01A2	Vial Na2S2O3 preserved	B	NA		2.8	Y	Absent		624.1-RGP(7),624.1-SIM-RGP(7)
L2213085-01A3	Vial Na2S2O3 preserved	B	NA		2.8	Y	Absent		624.1-RGP(7),624.1-SIM-RGP(7)
L2213085-01B	Vial Na2S2O3 preserved	B	NA		2.8	Y	Absent		504(14)
L2213085-01B1	Vial Na2S2O3 preserved	B	NA		2.8	Y	Absent		504(14)
L2213085-01B2	Vial Na2S2O3 preserved	B	NA		2.8	Y	Absent		504(14)
L2213085-01B3	Vial Na2S2O3 preserved	B	NA		2.8	Y	Absent		504(14)
L2213085-01C	Vial unpreserved	B	NA		2.8	Y	Absent		SUB-ETHANOL(14)
L2213085-01C1	Vial unpreserved	B	NA		2.8	Y	Absent		SUB-ETHANOL(14)
L2213085-01C2	Vial unpreserved	B	NA		2.8	Y	Absent		SUB-ETHANOL(14)
L2213085-01D	Plastic 250ml unpreserved	B	7	7	2.8	Y	Absent		-
L2213085-01E	Plastic 250ml HNO3 preserved	B	<2	<2	2.8	Y	Absent		CD-2008T(180),NI-2008T(180),ZN-2008T(180),CU-2008T(180),HARDU(180),HG-U(28),AS-2008T(180),SE-2008T(180),AG-2008T(180),FE-2008T(180),CR-2008T(180),SB-2008T(180),PB-2008T(180)
L2213085-01F	Plastic 250ml NaOH preserved	B	>12	>12	2.8	Y	Absent		TCN-4500(14)
L2213085-01G	Plastic 500ml H2SO4 preserved	B	<2	<2	2.8	Y	Absent		NH3-4500(28)
L2213085-01H	Plastic 950ml unpreserved	B	7	7	2.8	Y	Absent		HEXCR-7196(1),CL-300(28),TRC-4500(1),PH-4500(.01)
L2213085-01J	Plastic 950ml unpreserved	B	7	7	2.8	Y	Absent		TSS-2540(7)
L2213085-01K	Amber 950ml H2SO4 preserved	D	<4	<4	4.2	Y	Absent		TPHENOL-420(28)
L2213085-01L	Amber 1000ml Na2S2O3	B	7	7	2.8	Y	Absent		625.1-RGP(7),625.1-SIM-RGP(7)

**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

Serial\_No:03282215:50  
**Lab Number:** L2213085  
**Report Date:** 03/28/22

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2213085-01M	Amber 1000ml Na2S2O3	A	7	7	3.2	Y	Absent		625.1-RGP(7),625.1-SIM-RGP(7)
L2213085-01N	Amber 1000ml Na2S2O3	B	7	7	2.8	Y	Absent		PCB-608.3(365)
L2213085-01O	Amber 1000ml Na2S2O3	B	7	7	2.8	Y	Absent		PCB-608.3(365)
L2213085-01P	Amber 1000ml Na2S2O3	D	7	7	4.2	Y	Absent		PCB-608.3(365)
L2213085-01Q	Amber 1000ml Na2S2O3	B	7	7	2.8	Y	Absent		PCB-608.3(365)
L2213085-01R	Amber 1000ml HCl preserved	B	NA		2.8	Y	Absent		TPH-1664(28)
L2213085-01S	Amber 1000ml HCl preserved	A	NA		3.2	Y	Absent		TPH-1664(28)
L2213085-01W	Plastic 120ml HNO3 preserved Filtrates	B	NA		2.8	Y	Absent		HOLD-METAL-DISSOLVED(180),HOLD-HG-DISSOLVED(28)



**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

## 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:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

### 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 for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: 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:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

**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.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

**Project Name:** 250-280 WESTERN AVE  
**Project Number:** 130647-002

**Lab Number:** L2213085  
**Report Date:** 03/28/22

## 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.
- 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.
- 140 Method 1664, Revision B: 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-10-001, February 2010.

## 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.



**Alpha Analytical, Inc.**Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 19

Published Date: 4/2/2021 1:14:23 PM

Page 1 of 1

**Certification Information**

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

**Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625/625.1:** alpha-Terpineol**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**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, SM4500CI-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,


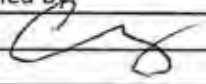
Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**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.



 <b>CHAIN OF CUSTODY</b>		<b>Service Centers</b> Brewer, ME 04412    Portsmouth, NH 03801 Mahwah, NJ 07430 Albany, NY 12205    Tonawanda, NY 14150    Holmes, PA 19043		Page 1 of 1		Date Rec'd in Lab <b>3/11/22</b>		ALPHA Job # <b>L2213085</b>																																																																																																																																																															
		Westborough, MA 01581    8 Walkup Dr.    TEL: 508-898-9220    FAX: 508-898-9193		Mansfield, MA 02048    320 Forbes Blvd    TEL: 508-822-9300    FAX: 508-822-3298		<b>Project Information</b> Project Name: 250-280 Western Ave Project Location: Boston, MA Project #: 130647 -002		<b>Deliverables</b> <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> EQulS (1 File) <input checked="" type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other:		<b>Billing Information</b> <input type="checkbox"/> Same as Client Info PO #																																																																																																																																																													
		<b>H&amp;A Information</b> H&A Client: KING STREET PROPERTIES H&A Address: 465 Medford Street, Suite 2200 Boston, MA 02129 H&A Phone: 617-886-7380 H&A Fax: 617-886-7680 H&A Email: SBamford@haleyaldrich.com		(Use Project name as Project #) <input type="checkbox"/> Project Manager: S. Bamford ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days: 5 Day		<b>Regulatory Requirements (Program/Criteria)</b> MA 2017 NPDES RGP Note: Select State from menu & identify criteria.		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																																																																																																															
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Samples submitted for 2017 NPDES RGP application; please follow approved testing methods and minimum detection levels as required by EPA. Please specify Metals or TAL.		<b>ANALYSIS</b>		<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input checked="" type="checkbox"/> Lab to do (Please Specify below)		<b>TOTAL BOTTLES</b>																																																																																																																																																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler Initials</th> <th rowspan="2">Depth</th> <th rowspan="2">1. VOCs 624.1 &amp; 624.1-SIM</th> <th rowspan="2">2. SVOCs 625.1 &amp; 625.1-SIM</th> <th rowspan="2">3. TSS 2540, TRC 4500, Cl 300, TCN</th> <th rowspan="2">4. PCBs 608, EDB 504, TPHENOL, TPH 1664</th> <th rowspan="2">5. Ammonia (NH3), Hex Cr, Hardness, pH</th> <th rowspan="2">6. Ethanol</th> <th rowspan="2">7. Total NPDES RGP Metals</th> <th rowspan="2">8. NPDES RGP Metals (Lab Filtered) (ON HOLD)</th> <th rowspan="2">           Sample Specific Comments            1. 1,4-Dioxane by 624.1-SIM            7. NPDES RGP Metals            Includes: Ag, As, Cd, Cr, Tri C            Cu, Ni, Pb, Sb, Se, Zn, Fe, Hg            8. Lab Filtered NPDES RGP Metals (ON HOLD)         </th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>13085 -01</td> <td>OW-14-20220311</td> <td>3/11</td> <td>1130</td> <td>AQ</td> <td>SRP</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID	Collection				Sample Matrix	Sampler Initials	Depth	1. VOCs 624.1 & 624.1-SIM	2. SVOCs 625.1 & 625.1-SIM	3. TSS 2540, TRC 4500, Cl 300, TCN	4. PCBs 608, EDB 504, TPHENOL, TPH 1664	5. Ammonia (NH3), Hex Cr, Hardness, pH	6. Ethanol	7. Total NPDES RGP Metals	8. NPDES RGP Metals (Lab Filtered) (ON HOLD)	Sample Specific Comments 1. 1,4-Dioxane by 624.1-SIM 7. NPDES RGP Metals Includes: Ag, As, Cd, Cr, Tri C Cu, Ni, Pb, Sb, Se, Zn, Fe, Hg 8. Lab Filtered NPDES RGP Metals (ON HOLD)	Date	Time	13085 -01	OW-14-20220311	3/11	1130	AQ	SRP		X	X	X	X	X	X	X	X																																																																																																																																		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2019-22-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.	
ALPHA Lab ID (Lab Use Only)	Sample ID			Collection																Sample Matrix	Sampler Initials	Depth	1. VOCs 624.1 & 624.1-SIM	2. SVOCs 625.1 & 625.1-SIM	3. TSS 2540, TRC 4500, Cl 300, TCN	4. PCBs 608, EDB 504, TPHENOL, TPH 1664	5. Ammonia (NH3), Hex Cr, Hardness, pH	6. Ethanol	7. Total NPDES RGP Metals	8. NPDES RGP Metals (Lab Filtered) (ON HOLD)	Sample Specific Comments 1. 1,4-Dioxane by 624.1-SIM 7. NPDES RGP Metals Includes: Ag, As, Cd, Cr, Tri C Cu, Ni, Pb, Sb, Se, Zn, Fe, Hg 8. Lab Filtered NPDES RGP Metals (ON HOLD)																																																																																																																																								
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Preservative Code: A = None B = HCl C = HNO3 D = H2SO4 E = NaOH F = MeOH G = NaHSO4 H = Na2S2O3 K/E = Zn Ac/NaOH Q = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type: V A P A P V P P Preservative:		Relinquished By: <i>A-Rob</i> Date/Time: 3/11/22 1330 Received By: <i>Rob Man</i> Date/Time: 3/11/22 1600																																																																																																																																																															
Document ID: 20455 Rev 3 (1/7/2019)		Relinquished By: <i>Rob Man</i> Date/Time: 3/11/22 1850		Received By: <i>Rob Man</i> Date/Time: 3/11/22 1850		Relinquished By: <i>Rob Man</i> Date/Time: 3/11/22 1850		Received By: <i>Rob Man</i> Date/Time: 3/11/22 1850																																																																																																																																																															

		<b>Subcontract Chain of Custody</b> Tek Lab, Inc. 5445 Horseshoe Lake Road Collinsville, IL 62234-7425		<b>Alpha Job Number</b> L2213085	
<b>Client Information</b>		<b>Project Information</b>		<b>Regulatory Requirements/Report Limits</b>	
Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019  Phone: 603.319.5010 Email: mgulli@alphalab.com		Project Location: MA Project Manager: Melissa Gulli  <b>Turnaround &amp; Deliverables Information</b>  Due Date: Deliverables:		State/Federal Program: Regulatory Criteria:	
<b>Project Specific Requirements and/or Report Requirements</b>					
Reference following Alpha Job Number on final report/deliverables: L2213085				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
	OW-14-20220311	03-11-22 11:30	WATER	Ethanol by EPA 1671 Revision A	
Relinquished By: 		Date/Time:	Received By:	Date/Time:	
		3/14/22			
Form No: AL_subcoc					

March 18, 2022

Melissa Gulli  
Alpha Analytical  
145 Flanders Road  
Westborough, MA 01581  
TEL: (603) 319-5010  
FAX:

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

**RE:** L2213085

**WorkOrder:** 22030959

Dear Melissa Gulli:

TEKLAB, INC received 1 sample on 3/15/2022 10:00:00 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  
Project Manager  
(618)344-1004 ex 41  
[mdarling@teklabinc.com](mailto:mdarling@teklabinc.com)



## Report Contents

<http://www.teklabinc.com/>**Client:** Alpha Analytical**Work Order:** 22030959**Client Project:** L2213085**Report Date:** 18-Mar-22**This reporting package includes the following:**

Cover Letter	1
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Case Narrative	5
Accreditations	6
Laboratory Results	7
Quality Control Results	8
Receiving Check List	9
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## Definitions

<http://www.teklabinc.com/>

Client: Alpha Analytical

Work Order: 22030959

Client Project: L2213085

Report Date: 18-Mar-22

### 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 )

## Definitions

<http://www.teklabinc.com/>**Client:** Alpha Analytical**Work Order:** 22030959**Client Project:** L2213085**Report Date:** 18-Mar-22

### 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	

## Case Narrative

<http://www.teklabinc.com/>**Client:** Alpha Analytical**Work Order:** 22030959**Client Project:** L2213085**Report Date:** 18-Mar-22**Cooler Receipt Temp:** 1.4 °C

### Locations

#### Collinsville

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425

**Phone** (618) 344-1004

**Fax** (618) 344-1005

**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

#### Springfield

**Address** 3920 Pintail Dr  
Springfield, IL 62711-9415

**Phone** (217) 698-1004

**Fax** (217) 698-1005

**Email** KKlostermann@teklabinc.com

#### Chicago

**Address** 1319 Butterfield Rd.  
Downers Grove, IL 60515

**Phone** (630) 324-6855

**Fax**

**Email** arenner@teklabinc.com

#### Kansas City

**Address** 8421 Nieman Road  
Lenexa, KS 66214

**Phone** (913) 541-1998

**Fax** (913) 541-1998

**Email** jhriley@teklabinc.com

## Accreditations

<http://www.teklabinc.com/>

**Client:** Alpha Analytical  
**Client Project:** L2213085

**Work Order:** 22030959  
**Report Date:** 18-Mar-22

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2023	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2022	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2022	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2022	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2022	Collinsville
Arkansas	ADEQ	88-0966		3/14/2023	Collinsville
Illinois	IDPH	17584		5/31/2023	Collinsville
Kentucky	UST	0073		1/31/2023	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

## Laboratory Results

<http://www.teklabinc.com/>

Client: Alpha Analytical

Work Order: 22030959

Client Project: L2213085

Report Date: 18-Mar-22

Lab ID: 22030959-001

Client Sample ID: OW-14-20220311

Matrix: AQUEOUS

Collection Date: 03/11/2022 11:30

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	03/15/2022 14:42	R308284

## Quality Control Results

<http://www.teklabinc.com/>

Client: Alpha Analytical

Work Order: 22030959

Client Project: L2213085

Report Date: 18-Mar-22

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

Batch R308284 SampType: MBLK Units mg/L

SampID: MBLK-031522

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Ethanol	*	20		ND						03/15/2022

Batch R308284 SampType: LCS Units mg/L

SampID: LCS-031522

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Ethanol	*	20		270	250.0	0	108.0	70	132	03/15/2022

Batch R308284 SampType: MS Units mg/L

SampID: 22030961-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Ethanol	*	20		290	250.0	0	115.7	70	132	03/15/2022

Batch R308284 SampType: MSD Units mg/L

RPD Limit: 30

SampID: 22030961-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Ethanol	*	20		280	250.0	0	110.6	289.3	4.56	03/15/2022

## Receiving Check List

<http://www.teklabinc.com/>

**Client:** Alpha Analytical  
**Client Project:** L2213085

**Work Order:** 22030959  
**Report Date:** 18-Mar-22

**Carrier:** UPS

**Received By:** MEK

**Completed by:**

**Reviewed by:**

**On:**

**On:**

15-Mar-22

15-Mar-22

Patrick Riley

Marvin L. Darling

**Pages to follow:** Chain of custody

1

Extra pages included

0



Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C <b>1.4</b>
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

*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 <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials <input type="checkbox"/>
Water - TOX containers have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No TOX containers <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
NPDES/CWA TCN interferences checked/treated in the field?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

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



		<b>Subcontract Chain of Custody</b> Tek Lab, Inc. 5445 Horsehoe Lake Road Collinsville, IL 62234-7425		Alpha Job Number L2213085	
<b>Client Information</b> Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 603.319.5010 Email: mgulli@alphalab.com		<b>Project Information</b> Project Location: MA Project Manager: Melissa Gulli Turnaround & Deliverables Information Due Date: Deliverables:		<b>Regulatory Requirements/Report Limits</b> State/Federal Program: Regulatory Criteria:	
<b>Project Specific Requirements and/or Report Requirements</b>					
Reference following Alpha Job Number on final report/deliverables: L2213085		Report to include Method Blank, LCS/LCSD:			
Additional Comments: Send all results/reports to subreports@alphalab.com		L4°C L765 Ice, QAS, PAT 3/15/22			
Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
22030951-001	OW-14-20220311	03-11-22 11:30	WATER	Ethanol by EPA 1671 Revision A	
Relinquished By:		Date/Time:	Received By:	Date/Time:	
		3/14/22	Mary Kemp (UPS)	3/15/22 1000	
Form No: AL_subcoc					

PAT 3/15/22

## APPENDIX C

### Dilution Factor and Effluent Limit Calculations

Enter number values in green boxes below

Enter values in the units specified

↓	
15.9	Q <sub>R</sub> = Enter upstream flow in <b>MGD</b>
0.216	Q <sub>P</sub> = Enter discharge flow in <b>MGD</b>
0	Downstream 7Q10

Enter a dilution factor, if other than zero

↓	
73.2	

Enter values in the units specified

↓	
159	C <sub>d</sub> = Enter influent hardness in <b>mg/L</b> CaCO <sub>3</sub>
115	C <sub>s</sub> = Enter receiving water hardness in <b>mg/L</b> CaCO <sub>3</sub>

Enter **receiving water** concentrations in the units specified

↓	
6.8	pH in <b>Standard Units</b>
5.5	Temperature in <b>°C</b>
1.28	Ammonia in <b>mg/L</b>
115	Hardness in <b>mg/L</b> CaCO <sub>3</sub>
0	Salinity in <b>ppt</b>
0	Antimony in <b>µg/L</b>
0	Arsenic in <b>µg/L</b>
0	Cadmium in <b>µg/L</b>
0	Chromium III in <b>µg/L</b>
0	Chromium VI in <b>µg/L</b>
33.74	Copper in <b>µg/L</b>
6260	Iron in <b>µg/L</b>
32.49	Lead in <b>µg/L</b>
0	Mercury in <b>µg/L</b>
0	Nickel in <b>µg/L</b>
0	Selenium in <b>µg/L</b>
0	Silver in <b>µg/L</b>
172.7	Zinc in <b>µg/L</b>

Enter **influent** concentrations in the units specified

↓	
0	TRC in <b>µg/L</b>
0	Ammonia in <b>mg/L</b>
0	Antimony in <b>µg/L</b>
0	Arsenic in <b>µg/L</b>
0	Cadmium in <b>µg/L</b>
0	Chromium III in <b>µg/L</b>
0	Chromium VI in <b>µg/L</b>
0	Copper in <b>µg/L</b>
0	Iron in <b>µg/L</b>
0	Lead in <b>µg/L</b>
0	Mercury in <b>µg/L</b>
0	Nickel in <b>µg/L</b>
0	Selenium in <b>µg/L</b>
0	Silver in <b>µg/L</b>
0	Zinc in <b>µg/L</b>
0	Cyanide in <b>µg/L</b>
0	Phenol in <b>µg/L</b>
0	Carbon Tetrachloride in <b>µg/L</b>
0	Tetrachloroethylene in <b>µg/L</b>
0	Total Phthalates in <b>µg/L</b>
0	Diethylhexylphthalate in <b>µg/L</b>
0	Benzo(a)anthracene in <b>µg/L</b>
0	Benzo(a)pyrene in <b>µg/L</b>
0	Benzo(b)fluoranthene in <b>µg/L</b>
0	Benzo(k)fluoranthene in <b>µg/L</b>
0	Chrysene in <b>µg/L</b>
0	Dibenzo(a,h)anthracene in <b>µg/L</b>
0	Indeno(1,2,3-cd)pyrene in <b>µg/L</b>
0	Methyl-tert butyl ether in <b>µg/L</b>

Notes:

Freshwater: Q<sub>R</sub> equal to the 7Q10; enter alternate Q<sub>R</sub> if approved by the State; enter 0 if no dilution factor approved

Saltwater (estuarine and marine): enter Q<sub>R</sub> if approved by the State; enter 0 if no entry

Discharge flow is equal to the design flow or 1 MGD, whichever is less

Only if approved by State as the entry for Q<sub>R</sub>; leave 0 if no entry

Saltwater (estuarine and marine): only if approved by the State

Leave 0 if no entry

Freshwater only

pH, temperature, and ammonia required for all discharges

Hardness required for freshwater

Salinity required for saltwater (estuarine and marine)

Metals required for all discharges if present and if dilution factor is > 1

Enter 0 if non-detect or testing not required

if >1 sample, enter maximum

if >10 samples, may enter 95th percentile

Enter 0 if non-detect or testing not required

HALEY & ALDRICH, INC.		<b>CALCULATIONS</b>		FILE NO.	130647
CLIENT	King Street Properties 250-280 Western Ave	SHEET	1	of	1
PROJECT		DATE	9-Feb-22		
SUBJECT	Dilution Factor Calculations	COMPUTED BY	CDR		

**PURPOSE:** Calculate Dilution Factor (DF) for project based on 7 Day 10 Year (7Q10) Low Flow values.

**APPROACH:** Calculate DF based on EPA formula  $(Q_s + Q_D)/Q_D$ , where  $Q_s$  is 7Q10 in million gallons per day (MGD) and  $Q_D$  is discharge flow in MGD.

**ASSUMPTIONS:**

1. 7Q10 is 24.2 cfs (from StreamStats 4.0)
2. A conversion of 7.48 is used to convert cubic feet to gallons
3. A discharge flowrate of 150 gpm is assumed

**CALCULATIONS:**

*7Q10 Low Flow Value ( $Q_s$ )*

$$Q_s = \frac{24.2 \text{ ft}^3}{\text{sec}} \times \frac{7.48 \text{ gallons}}{\text{ft}^3} \times \frac{86,400 \text{ sec}}{\text{day}} \times \frac{1 \text{ MG}}{1,000,000 \text{ gallons}}$$

$$Q_s = 15.6 \text{ MGD}$$

*Discharge Flowrate ( $Q_D$ )*

$$Q_D = \frac{150 \text{ gallons}}{\text{min}} \times \frac{1,440 \text{ min}}{\text{day}} \times \frac{1 \text{ MG}}{1,000,000 \text{ gallons}}$$

$$Q_D = 0.216 \text{ MGD}$$

*Dilution Factor (DF)*

$$DF = \frac{Q_s + Q_D}{Q_D} = \frac{15.6 \text{ MGD} + 0.216 \text{ MGD}}{0.216 \text{ MGD}} = 73.2$$

**CONCLUSION** The dilution factor for this project is calculated to be **73.2** based on the provided 7Q10 low flow value and discharge flowrate.

## Midgley, Amelia

---

**From:** Ruan, Xiaodan (DEP) <xiaodan.ruan@mass.gov>  
**Sent:** Friday, March 25, 2022 4:36 PM  
**To:** Romero, Christ  
**Cc:** Coniaris, Catherine (DEP)  
**Subject:** RE: 7Q10 + Dilution Factor for NPDES NOI

Hi Christ,

I have checked your calculation and can confirm that the 7Q10 flow of 24.2 cfs for the Charles River and the dilution factor of 73.2 for the proposed discharge with a design flow of 150 gpm from the project site at 250-280 Western Ave, Boston were correct.

Here is water quality information in assisting you in filling out the NOI:

Waterbody and ID: Charles River (MA72-36) within Charles River Watershed

Classification: B, CSO

Outstanding Resource Water?: no

State's most recent Integrated List is located here: <https://www.mass.gov/doc/final-massachusetts-integrated-list-of-waters-for-the-clean-water-act-20182020-reporting-cycle/download>, search for "MA72-36" to see the causes of impairments.

TMDLs: there are two approved TMDL (pathogen and nutrients) for this segment.

Also, if this is not a *current* MCP site, then in addition to submitting the NOI to EPA, you need to apply with MassDEP and submit a \$500 fee (unless fee exempt, e.g., municipality). For MassDEP's application, please use ePLACE, an online application submittal process where you will set up a user ID and be able to submit NOIs for various projects as well as pay by credit card. The instructions are located on this page: <https://www.mass.gov/how-to/wm-15-npdes-general-permit-notice-of-intent>. Technical assistant information is available on the front page of the ePLACE application webpage.

Please let me know if you have any questions.

Thanks,  
Xiaodan

Xiaodan Ruan  
Environmental Engineer  
Massachusetts Department of Environmental Protection  
One Winter Street, Boston, MA 02108  
(857)-256-4172  
[xiaodan.ruan@mass.gov](mailto:xiaodan.ruan@mass.gov)

---

**From:** Romero, Christ <CRomero@haleyaldrich.com>  
**Sent:** Tuesday, March 22, 2022 3:25 PM  
**To:** Ruan, Xiaodan (DEP) <xiaodan.ruan@mass.gov>  
**Subject:** 7Q10 + Dilution Factor for NPDES NOI

CAUTION: This email originated from a sender outside of the Commonwealth of Massachusetts mail system. Do not click on links or open attachments unless you recognize the sender and know the content is safe.

Hi Xiaodan,

I am working on a NPDES application for a site and trying to meet the end of the month deadline. For your review, I have attached the StreamStats report with the 7Q10 low flow value and the dilution factor calculations. The peak discharge flowrate is 150 GPM also the design flow being the maximum flow rate that the treatment system would allow, which was used in the calculation. Can you confirm that my calculations are appropriate for the project?

Project:

250-280 Western Ave, Boston, MA

Thank you,

**Christ D. Romero**

Geologist

**Haley & Aldrich, Inc.**

465 Medford Street | Suite 2200

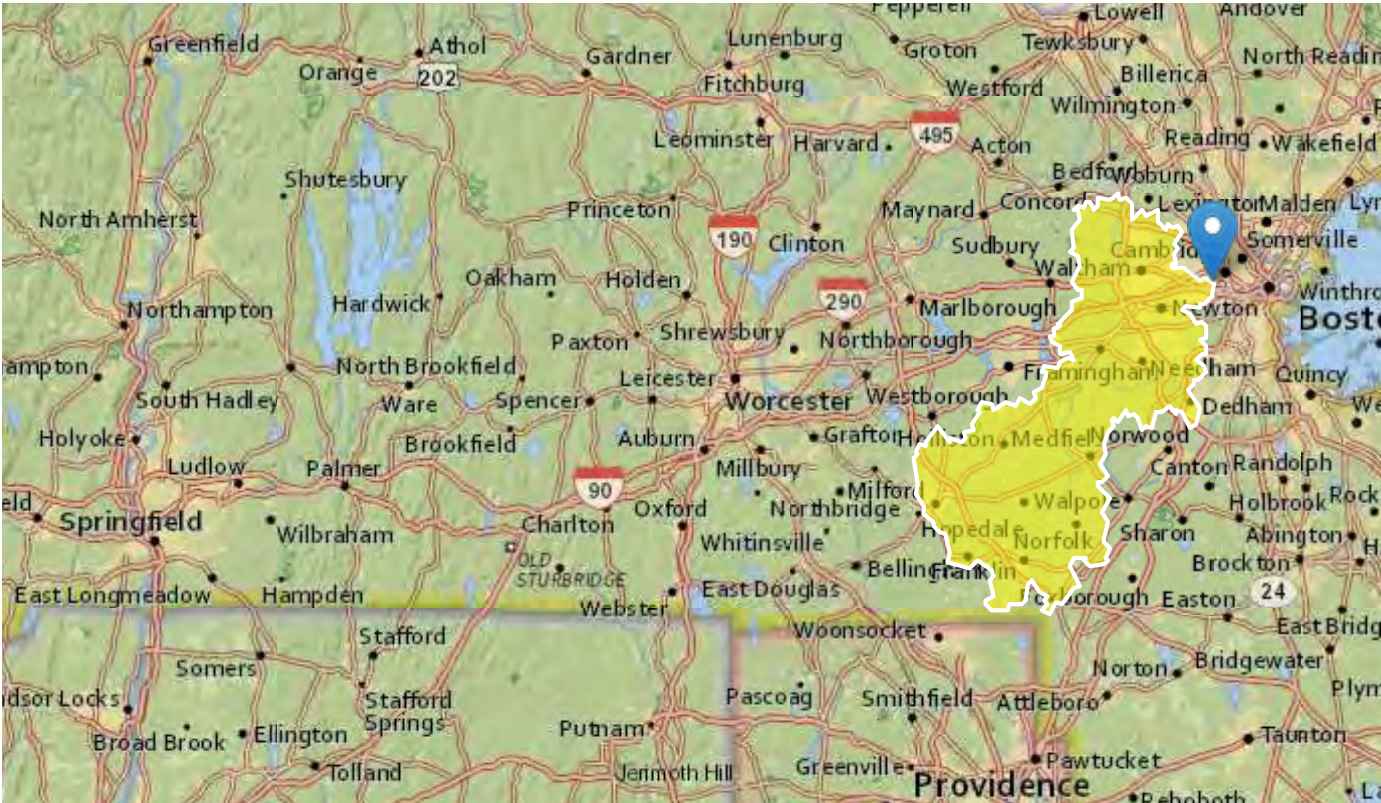
Charlestown, MA 02129

T: 617-997-6327

[www.haleyaldrich.com](http://www.haleyaldrich.com)

# StreamStats Report

Region ID: MA  
Workspace ID: MA20220222200526644000  
Clicked Point (Latitude, Longitude): 42.36458, -71.14014  
Time: 2022-02-22 15:05:52 -0500



## Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	278	square miles
BSLDEM250	Mean basin slope computed from 1:250K DEM	2.342	percent
DRFTPERSTR	Area of stratified drift per unit of stream length	0.23	square mile per mile
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	0	dimensionless

## Low-Flow Statistics Parameters [Statewide Low Flow WRIR00 4135]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	278	square miles	1.61	149
BSLDEM250	Mean Basin Slope from 250K DEM	2.342	percent	0.32	24.6
DRFTPERSTR	Stratified Drift per Stream Length	0.23	square mile per mile	0	1.29
MAREGION	Massachusetts Region	0	dimensionless	0	1

## Low-Flow Statistics Disclaimers [Statewide Low Flow WRIR00 4135]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

## Low-Flow Statistics Flow Report [Statewide Low Flow WRIR00 4135]

Statistic	Value	Unit
7 Day 2 Year Low Flow	48.7	ft <sup>3</sup> /s
7 Day 10 Year Low Flow	24.2	ft <sup>3</sup> /s

### *Low-Flow Statistics Citations*

**Ries, K.G., III, 2000, Methods for estimating low-flow statistics for Massachusetts streams: U.S. Geological Survey Water Resources Investigations Report 00-4135, 81 p. (<http://pubs.usgs.gov/wri/wri004135/>)**

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Application Version: 4.7.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.1.2

## APPENDIX D

### Endangered Species Act Documentation

# IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

## Location

Suffolk County, Massachusetts



## Local office

New England Ecological Services Field Office

☎ (603) 223-2541

📠 (603) 223-0104

70 Commercial Street, Suite 300  
Concord, NH 03301-5094

<http://www.fws.gov/newengland>

# Endangered species

**This resource list is for informational purposes only and does not constitute an analysis of project level impacts.**

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries<sup>2</sup>).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

- 
1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
  2. [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.

The following species are potentially affected by activities in this location:

## Insects

Monarch Butterfly *Danaus plexippus*

Candidate

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/9743>

## Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

## Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Nationwide conservation measures for birds <http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird



species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A  
BREEDING SEASON IS INDICATED  
FOR A BIRD ON YOUR LIST, THE  
BIRD MAY BREED IN YOUR  
PROJECT AREA SOMETIME WITHIN  
THE TIMEFRAME SPECIFIED,  
WHICH IS A VERY LIBERAL  
ESTIMATE OF THE DATES INSIDE  
WHICH THE BIRD BREEDS  
ACROSS ITS ENTIRE RANGE.  
"BREEDS ELSEWHERE" INDICATES  
THAT THE BIRD DOES NOT LIKELY  
BREED IN YOUR PROJECT AREA.)

**Bald Eagle** *Haliaeetus leucocephalus*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/1626>

Breeds Oct 15 to Aug 31

**Black-billed Cuckoo** *Coccyzus erythrophthalmus*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9399>

Breeds May 15 to Oct 10

**Blue-winged Warbler** *Vermivora pinus*

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Breeds May 1 to Jun 30

**Bobolink** *Dolichonyx oryzivorus*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 20 to Jul 31

**Canada Warbler** *Cardellina canadensis*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 20 to Aug 10

**Cerulean Warbler** *Dendroica cerulea*

Breeds Apr 29 to Jul 20

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/2974>

**Kentucky Warbler** *Oporornis formosus*

Breeds Apr 20 to Aug 20

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

**Lesser Yellowlegs** *Tringa flavipes*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9679>

**Prairie Warbler** *Dendroica discolor*

Breeds May 1 to Jul 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

**Prothonotary Warbler** *Protonotaria citrea*

Breeds Apr 1 to Jul 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

**Red-headed Woodpecker** *Melanerpes erythrocephalus*

Breeds May 10 to Sep 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

**Rusty Blackbird** *Euphagus carolinus*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

**Wood Thrush** *Hylocichla mustelina*

Breeds May 10 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

## Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

**Probability of Presence** (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is  $0.25/0.25 = 1$ ; at week 20 it is  $0.05/0.25 = 0.2$ .
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

### Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

### Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

### No Data (—)

A week is marked as having no data if there were no survey events for that week.

### Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Bald Eagle  
Non-BCC  
Vulnerable (This is  
not a Bird of  
Conservation  
Concern (BCC) in  
this area, but  
warrants attention  
because of the  
Eagle Act or for  
potential  
susceptibilities in  
offshore areas  
from certain types  
of development or  
activities.)



Black-billed  
Cuckoo  
BCC Rangewide  
(CON) (This is a  
Bird of  
Conservation  
Concern (BCC)  
throughout its  
range in the  
continental USA  
and Alaska.)



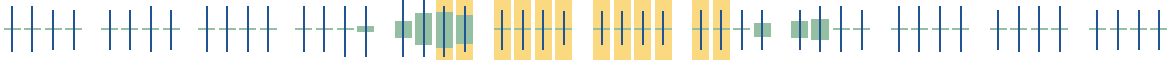
Blue-winged  
Warbler  
BCC - BCR (This is a  
Bird of  
Conservation  
Concern (BCC) only  
in particular Bird  
Conservation  
Regions (BCRs) in  
the continental  
USA)



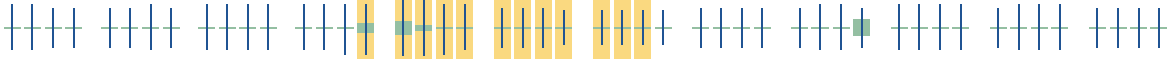
Bobolink  
BCC Rangewide  
(CON) (This is a  
Bird of  
Conservation  
Concern (BCC)  
throughout its  
range in the  
continental USA  
and Alaska.)



Canada Warbler  
BCC Rangewide  
(CON) (This is a  
Bird of  
Conservation  
Concern (BCC)  
throughout its  
range in the  
continental USA  
and Alaska.)



Cerulean Warbler  
BCC Rangewide  
(CON) (This is a  
Bird of  
Conservation  
Concern (BCC)  
throughout its  
range in the  
continental USA  
and Alaska.)



Kentucky Warbler  
BCC Rangewide  
(CON) (This is a  
Bird of  
Conservation  
Concern (BCC)  
throughout its  
range in the  
continental USA  
and Alaska.)

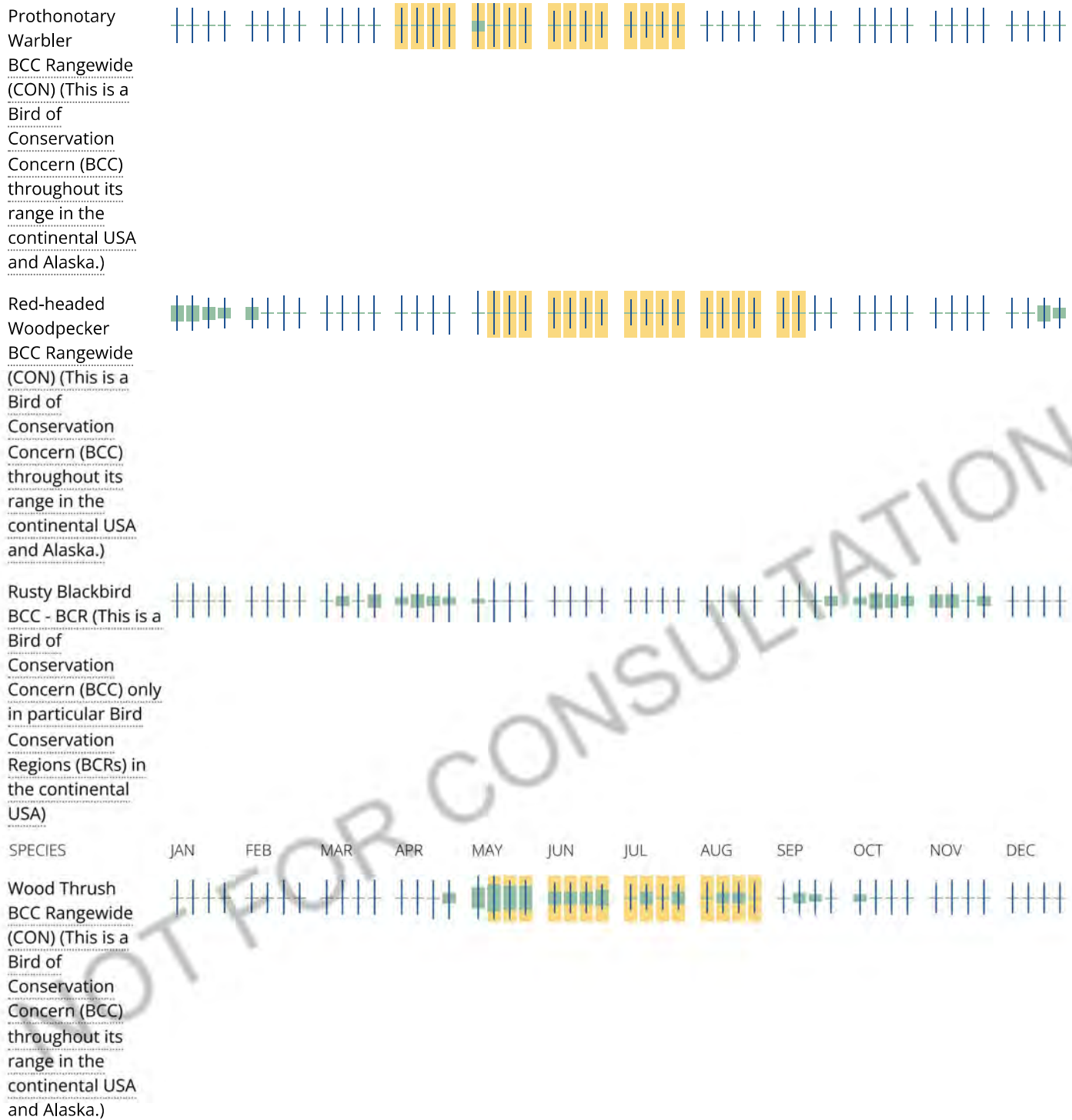


Lesser Yellowlegs  
BCC Rangewide  
(CON) (This is a  
Bird of  
Conservation  
Concern (BCC)  
throughout its  
range in the  
continental USA  
and Alaska.)



Prairie Warbler  
BCC Rangewide  
(CON) (This is a  
Bird of  
Conservation  
Concern (BCC)  
throughout its  
range in the  
continental USA  
and Alaska.)





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

### **What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?**

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

### **How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?**

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

### **What are the levels of concern for migratory birds?**

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

### **Details about birds that are potentially affected by offshore projects**



For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

### Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

## Facilities

### National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

# Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

## Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

THERE ARE NO KNOWN WETLANDS AT THIS LOCATION.

### Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

### Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

### Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.



# MassDEP - Bureau of Waste Site Cleanup

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

### Site Information:

250-280 WESTERN AVE  
250-280 WESTERN AVE BOSTON, MA

### NAD83 UTM Meters:

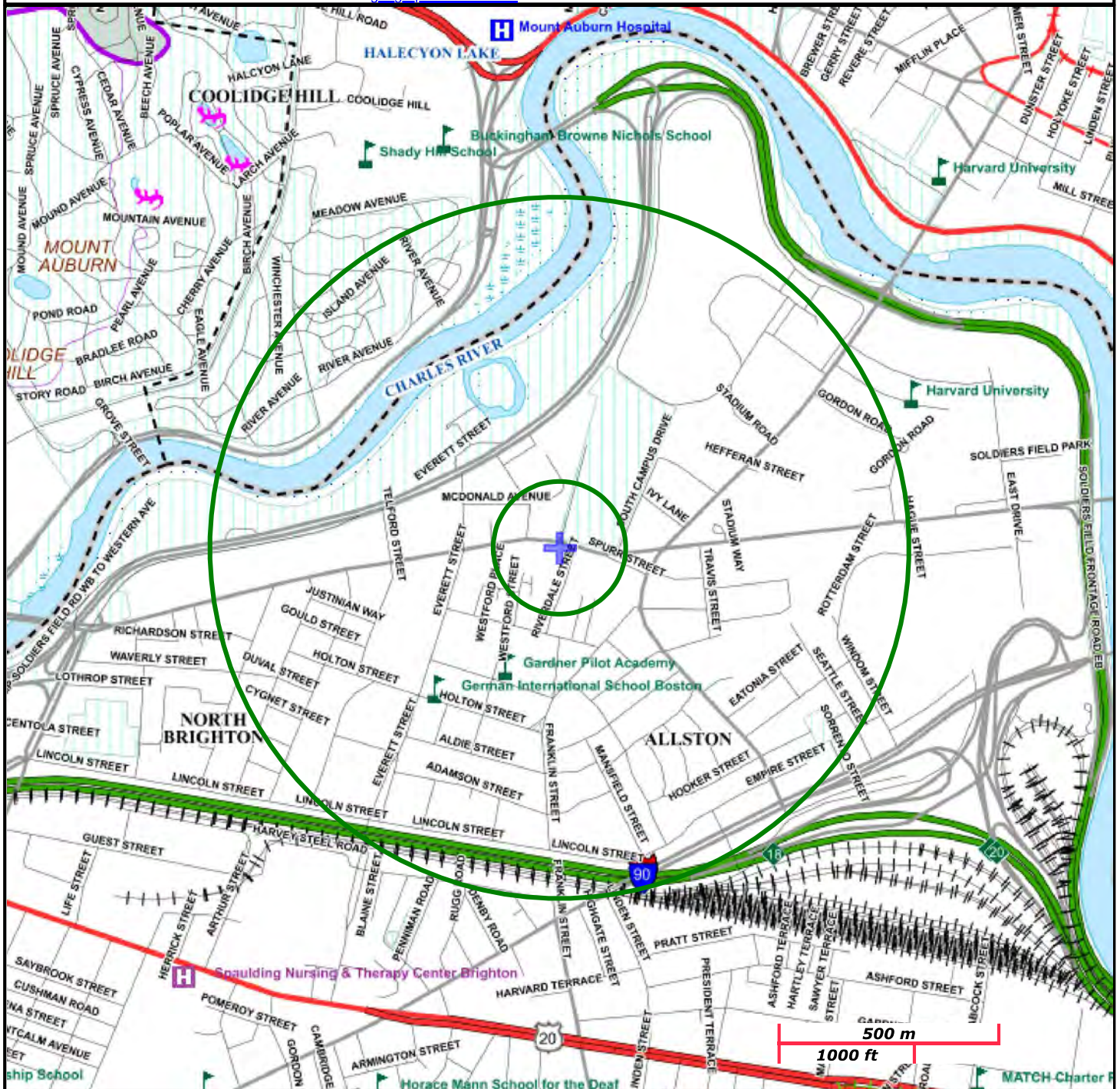
4692307mN, 324382mE (Zone: 19)  
February 22, 2022

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.

500 m

1000 ft

MATCH Charter

# FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Barnstable	Piping Plover	Threatened	Coastal Beaches	All Towns
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Chatham
	Sandplain gerardia	Endangered	Open areas with sandy soils.	Sandwich and Falmouth.
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Bourne (north of the Cape Cod Canal)
	Red Knot <sup>1</sup>	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Berkshire	Bog Turtle	Threatened	Wetlands	Egremont and Sheffield
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Bristol	Piping Plover	Threatened	Coastal Beaches	Fairhaven, Dartmouth, Westport
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Fairhaven, New Bedford, Dartmouth, Westport
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Taunton
	Red Knot <sup>1</sup>	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Dukes	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Piping Plover	Threatened	Coastal Beaches	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Aquinnah and Chilmark
	Sandplain gerardia	Endangered	Open areas with sandy soils.	West Tisbury
	Red Knot <sup>1</sup>	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide

Updated 02/05/2016



**FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES  
IN MASSACHUSETTS**

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Essex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Gloucester, Essex and Manchester
	Piping Plover	Threatened	Coastal Beaches	Gloucester, Essex, Ipswich, Rowley, Revere, Newbury, Newburyport and Salisbury
	Red Knot <sup>1</sup>	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Franklin	Northeastern bulrush	Endangered	Wetlands	Montague, Warwick
	Dwarf wedgemussel	Endangered	Mill River	Whately
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Hampshire	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Hadley
	Puritan tiger beetle	Threatened	Sandy beaches along the Connecticut River	Northampton and Hadley
	Dwarf wedgemussel	Endangered	Rivers and Streams.	Hatfield, Amherst and Northampton
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Hampden	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Southwick
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Middlesex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Groton
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Nantucket	Piping Plover	Threatened	Coastal Beaches	Nantucket
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Nantucket
	American burying beetle	Endangered	Upland grassy meadows	Nantucket
	Red Knot <sup>1</sup>	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide

**FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES  
IN MASSACHUSETTS**

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Plymouth	Piping Plover	Threatened	Coastal Beaches	Scituate, Marshfield, Duxbury, Plymouth, Wareham and Mattapoisett
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Kingston, Middleborough, Carver, Plymouth, Bourne, Wareham, Halifax, and Pembroke
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Plymouth, Marion, Wareham, and Mattapoisett.
	Red Knot <sup>1</sup>	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Suffolk	Piping Plover	Threatened	Coastal Beaches	Revere, Winthrop
	Red Knot <sup>1</sup>	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Worcester	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Leominster
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide

<sup>1</sup>Migratory only, scattered along the coast in small numbers

-Eastern cougar and gray wolf are considered extirpated in Massachusetts.

-Endangered gray wolves are not known to be present in Massachusetts, but dispersing individuals from source populations in Canada may occur statewide.

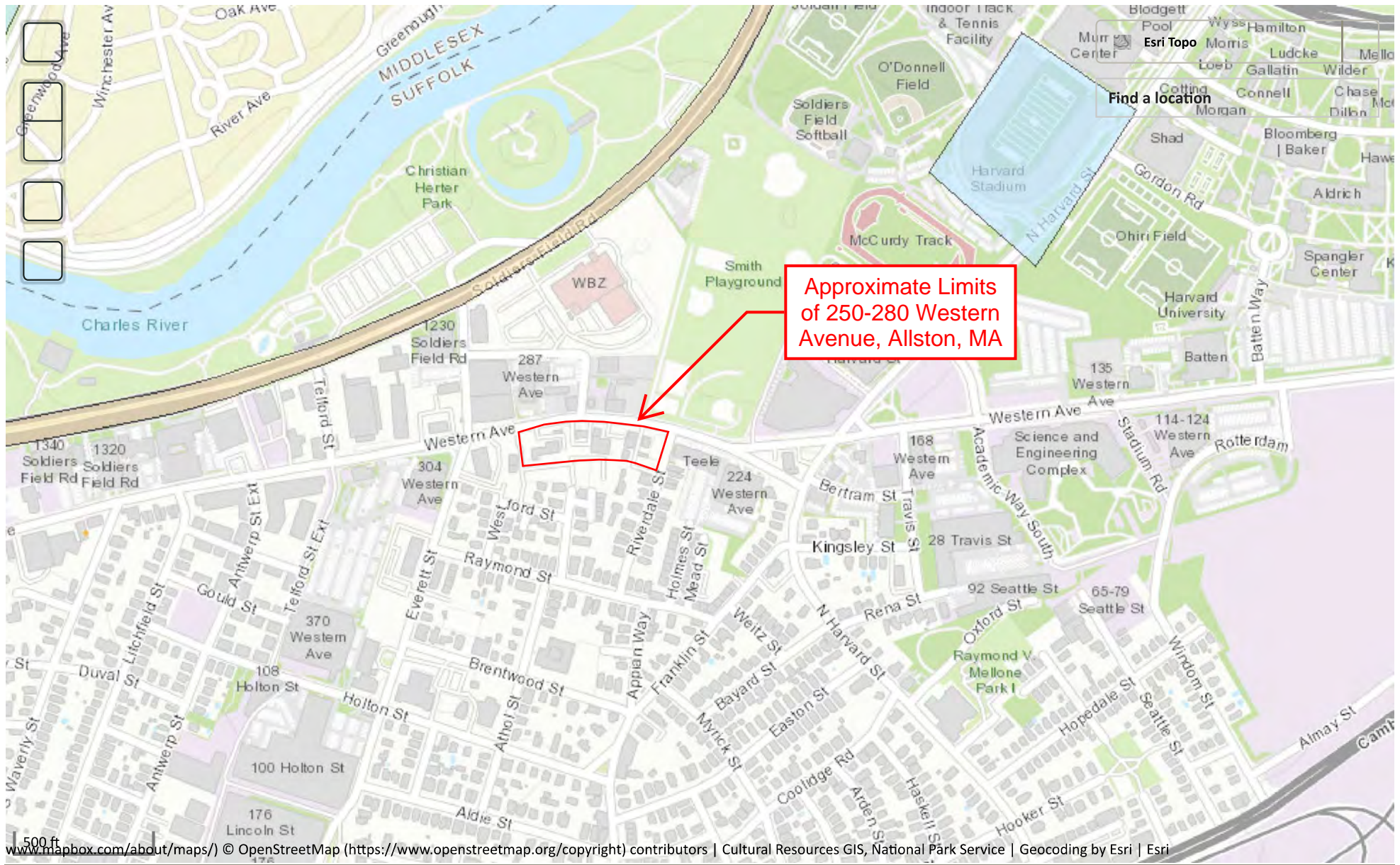
-Critical habitat for the Northern Red-bellied Cooter is present in Plymouth County.

APPENDIX E  
National Register of Historic Places Documentation

# National Register of Historic Places

National Park Service  
U.S. Department of the Interior

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# Massachusetts Cultural Resource Information System

## Scanned Record Cover Page

<b>Inventory No:</b>	BOS.8342
<b>Historic Name:</b>	Ted's Diner
<b>Common Name:</b>	
<b>Address:</b>	270 Western Ave
<b>City/Town:</b>	Boston
<b>Village/Neighborhood:</b>	Allston - Brighton; Allston; Saint Anthony's;
<b>Local No:</b>	AB 410;
<b>Year Constructed:</b>	1953
<b>Architectural Style(s):</b>	Art Deco; Not researched;
<b>Architect(s):</b>	Mclsaac, L. H.; Worcester Lunch Car Company;
<b>Use(s):</b>	Diner;
<b>Significance:</b>	Architecture; Commerce;
<b>Area(s):</b>	
<b>Designation(s):</b>	
<b>Building Materials:</b>	Wall: Concrete Cinderblock; Plastic; Steel; Foundation: Concrete Unspecified;
<b>Demolished</b>	No



The Massachusetts Historical Commission (MHC) has converted this paper record to digital format as part of ongoing projects to scan records of the Inventory of Historic Assets of the Commonwealth and National Register of Historic Places nominations for Massachusetts. Efforts are ongoing and not all inventory or National Register records related to this resource may be available in digital format at this time.

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Commonwealth of Massachusetts  
Massachusetts Historical Commission  
220 Morrissey Boulevard, Boston, Massachusetts 02125  
[www.sec.state.ma.us/mhc](http://www.sec.state.ma.us/mhc)

This file was accessed on: Wednesday, March 30, 2022 at 6:30 PM



ADDRESS 270 Western Ave COR. ALLSTON-PINAME Ted's Diner  
present original

USC NEWTON

MAP No. 26 N-6ESUB AREA St. Anthony'sDATE 1953Building Permit  
source

SPLT-E

ARCHITECT L.H. McIsaac (architect for  
source foundation)BUILDER "Standard Worcester" diner  
sourceOWNER C.J. Fahey  
original presentPHOTOGRAPHS AB2 6/1-78TYPE (residential) single double row 2-fam. 3-deck ten apt.  
(non-residential) dinerNO. OF STORIES (1st to cornice) 1 plusROOF flat cupola dormersMATERIALS (Frame) clapboards shingles stucco asphalt asbestos alum/vinyl  
(Other) brick stone concrete iron/steel/alum.BRIEF DESCRIPTION T-plan with 3x7 bays in the main block  
and concrete-block kitchen at rear, rounded corners, facade  
of stainless steel and red plastic panels & large plate glass windowsEXTERIOR ALTERATION minor moderate drastic entrance porchCONDITION good fair poor LOT AREA 7,070 sq. feetNOTEWORTHY SITE CHARACTERISTICS part of Western Avenue  
commercial stripSIGNIFICANCE (cont'd on reverse) 1950'sVersion of the "modern"  
streamlined look with interior  
largely intact and featuring  
Art Deco metal panels, tile floor

(Map)

Moved; date if known \_\_\_\_\_

Themes (check as many as applicable)

Aboriginal	_____	Conservation	_____	Recreation	_____
Agricultural	_____	Education	_____	Religion	_____
Architectural	<u>X</u>	Exploration/	_____	Science/	_____
The Arts	_____	settlement	_____	invention	_____
Commerce	_____	Industry	_____	Social/	_____
Communication	_____	Military	_____	humanitarian	_____
Community/	_____	Political	_____	Transportation	_____
development	_____				

Significance (include explanation of themes checked above)

and original counter and stools. (One of two  
largely intact diners in Brighton - see also 226 North  
Beacon)

Preservation Consideration (accessibility, re-use possibilities, capacity  
for public use and enjoyment, protection, utilities, context)

Bibliography and/or references (such as local histories, deeds, assessor's  
records, early maps, etc.)

Building Permit of 1953 indicates construction  
of foundation and piers to carry "New  
Standard Worcester Diner"

Summer 1978

APPENDIX F  
Copy of BWSC Permit Application





Haley & Aldrich, Inc.  
465 Medford St.  
Suite 2200  
Boston, MA 02129  
617.886.7400

31 March 2022  
File No. 130647-002

Boston Water and Sewer Commission  
Engineering Customer Services  
900 Harrison Avenue  
Boston, MA 02119

Attention: Jodi Dobay

Subject: Request for Approval of Temporary Construction Dewatering  
Proposed Biomedical Laboratory Campus  
250-280 Western Avenue  
Allston, Massachusetts

Dear Ms. Dobay:

On behalf of our client, Allston Labworks Developer LLC, this letter submits the Dewatering Discharge Permit Application in support of the proposed Biomedical Laboratory Campus located at 250-280 Western Avenue in Allston, MA.

Dewatering is necessary to enable construction in-the-dry and is anticipated to begin in June 2022 and continue for up to 24 months. Prior to discharge, collected water will be routed through a sedimentation/fractionation tank, bag filters (5-micron), and pH adjustment to remove suspended solids and undissolved chemical constituents. Other pre-treatment may be conducted as necessary to comply with NPDES discharge criteria. The site location is shown on Figures 1 and 2, and the proposed dewatering discharge route and BWSC outfall location are shown on Figure 3.

A Notice of Intent to discharge under the 2017 NPDES Remediation General Permit (RGP) has been submitted to the Environmental Protection Agency (EPA). A copy of the submitted application is attached. If you have any questions, please feel free to contact the undersigned at 617-886-7477.

Sincerely yours,

HALEY & ALDRICH, INC.

A handwritten signature in black ink, reading "Amelia E. Midgley".

Amelia E. Midgley  
Staff Geologist

A handwritten signature in black ink, reading "Scott R. Bamford".

Scott R. Bamford, P.E.  
Senior Project Manager

A handwritten signature in black ink, reading "Mark X. Haley".

Mark X. Haley, P.E.  
Senior Vice President

Boston Water and Sewer Commission

31 March 2022

Page 2

Attachments:

Dewatering Discharge Permit Application

Figure 1 – Project Locus

Figure 2 – Site and Subsurface Exploration Location Plan

Figure 3 – Proposed Discharge Route

Figure 4 – Treatment System Schematic

Copy of NPDES RGP Application

G:\130647 - 250-305 Western Ave, Allston\250, 290, 305 Western Ave\NPDES RGP Application\Appendix F - BWSC Permit Application\2022-0331-HAI-250-280 Western Ave-BWSC Letter\_Final.docx



**Boston Water and  
Sewer Commission**  
980 Harrison Avenue  
Boston, MA 02119-2540

## DEWATERING DISCHARGE PERMIT APPLICATION

### OWNER / AUTHORIZED APPLICANT PROVIDE INFORMATION HERE:

Company Name: Consigli Address: 313 Congress Street, Boston, MA 02210  
Phone Number: 617-590-5166 Fax number: \_\_\_\_\_  
Contact person name: Kris Olsen Title: Site Superintendent  
Cell number: 617-590-5166 Email address: kolsen@consigli.com  
Permit Request (check one): ☒ New Application ☐ Permit Extension ☐ Other (Specify): \_\_\_\_\_

### Owner's Information (if different from above):

Owner of property being dewatered: Allston Labworks Developer LLC  
Owner's mailing address: 800 Boylston Street, Suite 2400, Boston, MA 02199 Phone number: 413-537-4243

### Location of Discharge & Proposed Treatment System(s):

Street number and name: 250-280 Western Avenue Neighborhood Allston  
Discharge is to a: ☐ Sanitary Sewer ☐ Combined Sewer ☒ Storm Drain ☐ Other (specify): \_\_\_\_\_  
Describe Proposed Pre-Treatment System(s): Sedimentation tank, bag filters, pH adjustment  
BWSC Outfall No. CG 133 Receiving Waters Charles River

### Temporary Discharges (Provide Anticipated Dates of Discharge): From June 2022 To June 2024

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Groundwater Remediation   | <input type="checkbox"/> Tank Removal/Installation | <input type="checkbox"/> Foundation Excavation                                     |
| <input type="checkbox"/> Utility/Manhole Pumping   | <input type="checkbox"/> Test Pipe                 | <input type="checkbox"/> Trench Excavation   |
| <input type="checkbox"/> Accumulated Surface Water | <input type="checkbox"/> Hydrogeologic Testing     | <input checked="" type="checkbox"/> Other <u>temporary construction dewatering</u> |

### Permanent Discharges

- |   |   |
|---|---|
| <input type="checkbox"/> Foundation Drainage                | <input type="checkbox"/> Crawl Space/Footing Drain          |
| <input type="checkbox"/> Accumulated Surface Water          | <input type="checkbox"/> Non-contact/Uncontaminated Cooling |
| <input type="checkbox"/> Non-contact/Uncontaminated Process | <input type="checkbox"/> Other; _____                       |

1. Attach a Site Plan showing the source of the discharge and the location of the point of discharge (i.e. the sewer pipe or catch basin). Include meter type, meter number, size, make and start reading. Note. All discharges to the Commission's sewer system will be assessed current sewer charges.
2. If discharging to a sanitary or combined sewer, attach a copy of MWRA's Sewer Use Discharge permit or application.
3. If discharging to a separate storm drain, attach a copy of EPA's NPDES Permit or NOI application, or NPDES Permit exclusion letter for the discharge, as well as other relevant information.
4. Dewatering Drainage Permit will be denied or revoked if applicant fails to obtain the necessary permits from MWRA or EPA.

Submit Completed Application to: Boston Water and Sewer Commission  
Engineering Customer Services  
980 Harrison Avenue, Boston, MA 02119  
Attn: Matthew Tuttle, Engineering Customer Service  
E-mail: [tuttlemp@bwsc.org](mailto:tuttlemp@bwsc.org)  
Phone: 617-989-7204 Fax: 617-989-7716

Signature of Authorized Representative for Property Owner: \_\_\_\_\_

Date: 3/30/22

APPENDIX G  
Best Management Practices Plan (BMPP)

**APPENDIX G – BEST MANAGEMENT PRACTICES PLAN  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
REMEDiation GENERAL PERMIT  
250-280 WESTERN AVENUE  
ALLSTON, MASSACHUSETTS**

**Best Management Practices Plan**

A Notice of Intent for a Remediation General Permit (RGP) under the National Pollutant Discharge Elimination System (NPDES) has been submitted to the US Environmental Protection Agency (EPA) in anticipation of temporary construction dewatering planned to occur during the construction of the proposed Biomedical Laboratory Campus construction project located at 250-280 Western Avenue in Allston, Massachusetts. This Best Management Practices Plan (BMPP) has been prepared as an Appendix to the RGP and will be posted at the site during the time that temporary construction dewatering is occurring at the site.

**Water Treatment and Management**

Construction dewatering will be conducted using a combination of sumps located inside and outside the excavations. The treatment system will be designed by the Contractor. Prior to discharge, collected water will be routed through a sedimentation tank and bag filters, as required, to remove suspended solids and undissolved chemical constituents. The Treatment System Schematic is shown on Figure 4.

**Discharge Monitoring and Compliance**

Regular sampling and testing will be conducted by the Contractor of the treated effluent as required by the RGP. This includes chemical testing required within the first month of discharging and monthly testing to be conducted through the end of the scheduled discharge.

Monitoring will include checking the condition of the treatment system, assessing the need for treatment system adjustments based on monitoring data, observing, and recording daily flow rates and discharge quantities, and verifying the flow path of the discharged effluent.

The total monthly flow will be monitored by checking and documenting the flow through the flow meter to be installed on the system. Flow will be maintained below the “system design flow” by regularly monitoring flow and adjusting the amount of construction dewatering as needed.

Monthly monitoring reports will be compiled and maintained at the site.

**System Maintenance**

A number of methods will be used to minimize the potential for violations for the term of this permit. Scheduled regular maintenance of the treatment system will be conducted to verify proper operation. Regular maintenance will include checking the condition of the treatment system equipment such as the sedimentation tanks, filters, hoses, pumps, and flow meters. Equipment will be monitored daily for potential issues or unscheduled maintenance requirements.

Employees who have direct or indirect responsibility for ensuring compliance with the RGP will be trained by the Operator.

**APPENDIX H – BEST MANAGEMENT PRACTICES PLAN  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
REMEDATION GENERAL PERMIT  
250-280 WESTERN AVENUE  
ALLSTON, MASSACHUSETTS**

**Miscellaneous Items**

It is anticipated that the excavation support system, erosion control measures, and the nature of the site and surrounding infrastructure will minimize potential runoff to or from the site. The project specifications also include requirements for erosion control.

Site security for the treatment system will be covered within the overall site security plan.

No adverse effects of designated water use of surrounding surface water bodies is anticipated. The Charles River is the nearest surface water body to the site. Dewatering effluent will be pumped to a sedimentation tank, bag filters, and any other treatment components (as required), prior to discharge to the storm drains.

**Management of Treatment System Materials**

Dewatering effluent will be pumped directly to the treatment system from the excavation with use of hoses and sumps to minimize handling. The Contractor will establish staging areas on the site for any equipment or materials storage which may be possible sources of pollution away from any dewatering activities.

Sediment from the sedimentation tank used in the treatment system will be characterized and disposed of as soil at an appropriate receiving facility in accordance with applicable laws and regulations.