HALEY ALDRICH

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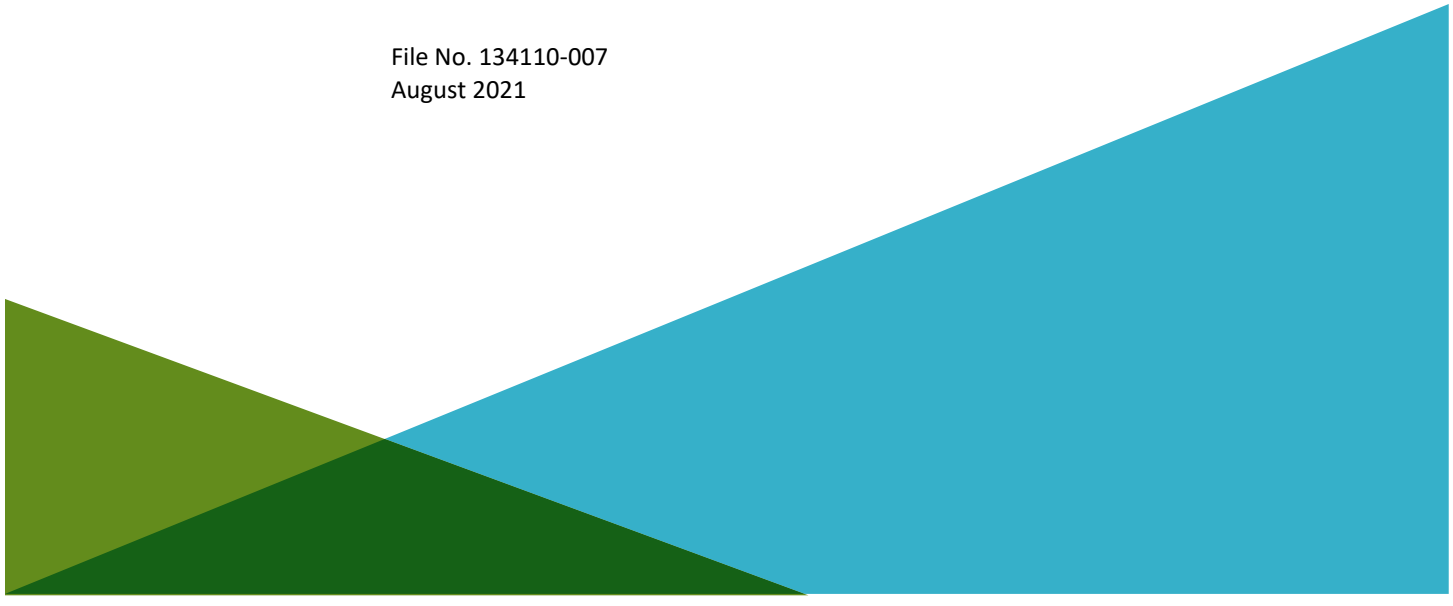
NPDES RGP APPLICATION - TEMPORARY CONSTRUCTION DEWATERING
ALLSTON YARDS – BUILDING A
60 EVERETT STREET
ALLSTON, MASSACHUSETTS

by
Haley & Aldrich, Inc.
Boston, Massachusetts

for
Environmental Protection Agency (EPA) Region 1
Boston, Massachusetts

File No. 134110-007
August 2021



HALEY & ALDRICH, INC.
465 Medford St.
Suite 2200
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5 August 2021
File No. 134110-007

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

Attention: Shauna Little

Subject: NPDES RGP Application - Temporary Construction Dewatering
Allston Yards – Building A
60 Everett Street
Allston, Massachusetts

Ladies and Gentlemen:

On behalf of the project team, Haley & Aldrich, Inc. (Haley & Aldrich) is submitting this application to request authorization under the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) for off-site discharge of temporary construction dewatering during construction activities at the planned Building A portion of the Allston Yards redevelopment project (herein referred to as the "Site") located at 60 Everett Street in Allston, Massachusetts. A copy of the Notice of Intent (NOI) is included in Appendix A.

EXISTING SITE CONDITIONS

The site is located in Allston, Massachusetts as shown on Figures 1 and 2 and is part of a 10.5-acre property currently occupied by a retail center (including the following retailers: Stop & Shop; Dollar Tree; and HomeGoods); and an active paved parking lot. The Site is bound to the north by the railroad corridor and the Massachusetts Turnpike (I-90), Everett Street to the east, several commercial buildings and parking lots to the south, and the New Balance headquarters to the west.

SITE HISTORY

Based on historical Sanborn Fire Insurance Maps and Aerial Photographs, prior to the early 1900s, the Site was vacant, located adjacent to a railroad corridor, and situated in a mixed industrial/residential area. In the early 1900s, a belting company warehouse was built southeast of the Site. This building would become a gum company warehouse around 1925, around the same time the Harvey Company steel fabrication facility was built at the Site. This large brick and steel frame warehouse building, and a smaller garage structure was later owned by Joseph T. Ryerson/East and operated as a steel fabrication facility from 1927 to approximately 1994.

The Ryerson Steel warehouse buildings were demolished in 1997 and the Site was developed into its current configuration as a retail center (Stop & Shop store, a Dollar Tree store, and a HomeGoods store). The retail center, which opened for business in May 1998, includes 100,000 square feet (sq ft) of retail space and surrounded by a paved parking lot and loading docks.

PROPOSED CONSTRUCTION

The Allston Yards redevelopment project will include two levels of below-grade parking that extends below the footprint of the Building A site totaling approximately 70,000 sq ft; the east side of the site will have a building that includes a larger 2-story podium portion below a smaller 4-story "T" shaped residential building; and the west side of the site will be developed into a park.

The Building A site is located in the southern portion of the Allston Yards redevelopment and is approximately 93,000 sq ft. The limits of Building A and associated excavation and construction dewatering are shown on Figure 2.

REGULATORY STATUS

There are four Release Tracking Numbers (RTNs) associated with the subject property as summarized below. Limits of these Disposal Sites and the RTNs which are applicable to this submittal (RTNs 3-33943, 3-12447, and 3-2332) are shown on Figure 2.

Release Tracking Number 3-2332

During the removal of underground storage tanks (USTs) at the subject property in 1987, chlorinated volatile organic compounds (CVOCs) in groundwater and petroleum in soil were detected at concentrations that exceeded applicable Massachusetts Contingency Plan (MCP) Reportable Concentrations, RCGW-2 and RCS-1, respectively. The release was Tier Classified (Tier II) on 9 August 1996. Response actions were conducted under a Release Abatement Measure (RAM) Plan submitted to Massachusetts Department of Environmental Protection (MassDEP) on 29 January 1999. Response actions included installation of a subslab vapor liner and venting system below the building slab of the new retail building. In addition, an air sparging/soil vapor extraction system (AS/SVE) operated for approximately 18 months (shut down on 2 February 2000) to reduce CVOC concentrations in groundwater.

RTN 3-2332 achieved regulatory closure with the filing of a RAM Completion Statement and Class A-2 Response Action Outcome (RAO) Statement, submitted to MassDEP on 27 June 2001. It was noted that an off-site source(s) of volatile organic compounds (VOCs) and/or petroleum related contamination from up-gradient sources located up-gradient west and south of the subject property had likely contributed to the release reported under RTN 3-2332.

MassDEP prepared an internal Memorandum for the Record, entitled, "Trichloroethylene Vapor Intrusion Evaluation," dated 13 February 2018. The memorandum concluded that the presence of a passive venting system beneath the commercial building slab should prevent a complete vapor intrusion

pathway. In addition, given the size and construction of the building and constant introduction of fresh air through multiple entrances and the HVAC system, it concluded that is highly unlikely that VOC concentrations to indoor air would be of concern. The February 2018 Memorandum is commonplace for Disposal Sites with TCE impacted groundwater. No further MassDEP follow-up was warranted with regard to the TCE contamination and the potential for vapor intrusion related to RTN 3-2332. A portion of the site is located within the limits of RTN 3-2332.

Release Tracking Number 3-12447 (and linked RTN 3-15227)

RTN 3-12447 is associated with a release of petroleum hydrocarbons to soil from a former 12,000-gallon fuel oil UST located in the southwestern portion of the subject property. The majority of petroleum impacted soils were removed during RAM response actions conducted during the period 31 December 1997 through 11 March 1998, as discussed in the Haley & Aldrich RAM Completion Report (Partial), dated 18 May 1998. Based on confirmatory soil and groundwater testing results, residual petroleum contamination remained in soil at the former tank grave. No petroleum-related VOCs existed in groundwater at the former tank grave.

Petroleum contaminated soils were encountered in shallow soil (0 to 3 ft.) below the former Ryerson Steel Warehouse floor slab and at other locations within the subject property. Petroleum contamination (lubricating oil) originated from discrete and localized spills that occurred over the historical use of the building as a steel fabrication facility. Petroleum impacted soil from RTN 3-15227 was linked to Tier II Disposal Site RTN 3-12447.

RTN 3-12447 (and linked RTN 3-15227) achieved regulatory closure with the filing of a Class A-2 RAO Statement submitted to MassDEP on 21 July 1999. RTN 3-12447 is located within the site limits, and the Site is located within a portion of linked RTN 3-15227.

Release Tracking Number 3-33943

During a June 2016 soil precharacterization program conducted by Haley & Aldrich, concentration levels of arsenic were detected in soil above applicable RCS-1 Reportable Concentrations. As arsenic was not previously reported as a compound of concern for the above listed RTNs, WJG Realty Company, LLC submitted a Release Notification Form (RNF; BWSC103) to MassDEP for the arsenic concentrations detected in soil as a 120-day release notification.

The RNF also included CVOCs detected above applicable RCGW-2 Reportable Concentrations that have been historically detected in groundwater beneath the property, reported to MassDEP under separate RTNs, and brought to regulatory closure previously. The MassDEP issued RTN 3-33943 in response to the new RNF. A Phase I Initial Site Investigation and Tier II Classification was submitted to MassDEP in November 2017.

A Method 1 Risk Characterization was conducted pursuant to 310 CMR 40.0900. Results of the Method 1 Risk Characterization indicated that a condition of No Significant Risk exists relative to human health, safety, public welfare, and the environment under current and foreseeable Site conditions, as

well as unrestricted (i.e., hypothetical residential) potential uses. Subsequently, a Permanent Solution Statement With Conditions was submitted to MassDEP in April 2020.

The Permanent Solution Statement includes certain Conditions for the Site that are necessary to ensure that future construction in areas of undeveloped land in the area where groundwater concentrations exceed GW-2 standards does not result in impacts to indoor air of newly constructed buildings. Specifically, the Condition stipulates that any new buildings will be evaluated for potential vapor intrusion and mitigation prior to construction to maintain a Condition of No Significant Risk.

The Site is located within a portion of RTN 3-33943.

Release Tracking Number 3-36625

During a July 2020 soil precharacterization program conducted by Haley & Aldrich in preparation for proposed enabling activities, concentration levels of CVOCs, including tetrachloroethylene (PCE) and trichloroethylene (TCE), were detected in urban fill soil above applicable RCS-1 Reportable Concentrations. As PCE and TCE were not previously reported as a compound of concern in soil for the above listed RTNs, WJG Realty Company, LLC submitted a Release Notification Form (BWSC103) to MassDEP for the PCE and TCE concentrations detected in soil as a 120-day release notification. MassDEP subsequently assigned RTN 3-36625 to the release.

RECEIVING WATER INFORMATION

On 24 May 2021, one water sample was collected from the MA72-36 outfall location into the Charles River and submitted to a MassDEP-certified laboratory, Alpha Analytical Laboratory of Westborough, Massachusetts (Alpha), for NPDES receiving water (freshwater) parameters, including hardness, pH, ammonia, and total metals. The laboratory data report is enclosed in Appendix B. Results of this sampling program are provided in Table I.

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 MassDEP on 7 June 2021. We have additionally confirmed with the MassDEP that the dilution factor for the receiving waters is 73.7. The StreamStats Report, Dilution Factor calculations, and confirmation from MassDEP are included in Appendix C.

Copies of the “EnterData” and “Freshwater” tabs from the excel file provided as an additional resource by EPA are included in Appendix C and will be transmitted electronically with the NOI. The effluent limitations are included for reference in Table I.

SOURCE WATER INFORMATION

On 24 May 2021, one groundwater sample was collected from monitoring well HA16-11(OW) to evaluate groundwater (source water) quality with respect to NPDES RGP dewatering effluent criteria.

The groundwater sample was sent to Alpha for analysis of constituents consistent with requirements for a NPDES RGP. The groundwater sample was analyzed for one or more of the following parameters: total petroleum hydrocarbons (TPH), VOCs, semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), total metals, and waste characteristics.

The data are compared to the applicable 2014 MCP Reportable Groundwater Concentrations (RCGW-2) criteria and the site-specific 2017 NPDES RGP Freshwater Effluent Limits as determined in the Technology Based Effluent Limits (TBEL) calculations.

As part of site characterization, groundwater samples were collected at the Site in June 2016. The samples were submitted to Alpha for analysis of VOCs. Samples detected cis-1,2-dichloroethene, TCE, and vinyl chloride above site-specific NPDES RGP criteria. Additionally, the 24 May 2021 sampling data exceed the site-specific NPDES RGP criteria for TCE. These exceedances will require dewatering treatment, as discussed below. The source water quality data are summarized in Table I. Laboratory data reports are included in Appendix B.

DISCHARGE INFORMATION

During construction of the building, 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 is currently anticipated to begin in September 2021 and is anticipated to be required for up to 12 months. On average, we estimate effluent discharge rates of about 50 to 100 gallons per minute (gpm) or less, with occasional peak flows of approximately 150 gpm during significant precipitation events. Temporary dewatering will be conducted from sumps located in excavations.

Construction dewatering under this RGP will include piping and discharging to storm drains located near the Site that ultimately discharge to the Charles River through outfall MA72-36. The proposed discharge locations and route are shown on Figure 3.

DEWATERING TREATMENT SYSTEM INFORMATION

An effluent treatment system will be designed and implemented by site contractor(s) to meet the applicable 2017 RGP Discharge Effluent Criteria. Prior to discharge, collected water will be routed through a sedimentation tank and bag filters with pH control, at a minimum, to remove suspended solids and undissolved chemical constituents and adjust the pH to within the limits established by the permit. Additionally, granulated activated carbon (GAC) filters will be required to remove VOC constituents. The proposed treatment system schematic is provided on Figure 4. A Notice of Change (NOC) will be submitted to EPA if additional treatment components need to be mobilized at the Site.

The site Contractor has not yet submitted their construction dewatering submittal, which will include details of the proposed dewatering system along with Safety Data Sheets (SDSs) and fact sheets for possible chemical additives (if needed to adjust pH or reduce suspended sediments). A Best

Management Practices Plan (BMPP), which outlines the proposed discharge operations covered under the RGP, will be available at the Site and is not being submitted with this NOI.

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, Planning, and Conservation (IPAC) online system; a copy of the determination is attached in Appendix D. Based on the results of the determination, the project and action area are considered to meet FWS Criterion A as no listed species or critical habitat have been established to be present within the project action area. Additionally, a MassDEP Phase 1 Site Assessment Map is included in Appendix D, which confirms that no critical habitats are present at the Site.

DOCUMENTATION OF NATIONAL HISTORIC PRESERVATION ACT 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), no historic properties have been established to be present at the 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 A. Documentation is included in Appendix E.

ETHANOL DISCUSSION

The site history does not suggest that ethanol was stored at the property, or that a petroleum product containing ethanol was released at the Site.

SUPPLEMENTAL INFORMATION

Permits for temporary construction dewatering will also be required from the Boston Water and Sewer Commission (BWSC). The permit application is being submitted concurrently with this NOI. Copies of the permit application is provided in Appendix F.

Owner and operator information are provided below for reference:

Owner:
Allston Yards Phase A LLC
1385 Hancock Street
Quincy, MA 02169
Contact: Jeffrey Morgan

Operator:
Dimeo Construction Company
88 Black Falcon Avenue, Suite 307
Boston, MA 02210
Contact: Frank Allard

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.

Mathew Plourde
Staff Engineer

Corinne McKenzie
Project Manager

Cole E. Worthy, LSP
Senior Associate

Enclosures:

- Table I – Summary of Water Quality Data
- Figure 1 – Project Locus
- Figure 2 – Site and Subsurface Exploration Location Plan
- Figure 3A – Proposed Discharge Route
- Figure 3B – Proposed Discharge Route
- Figure 4 – Proposed Treatment System Schematic
- Appendix A – Notice of Intent (NOI)
- Appendix B – Laboratory Data Reports
- Appendix C – Effluent Limitations Documentation
- Appendix D – Endangered Species Act Assessment
- Appendix E – National Historic Preservation Act Review
- Appendix F – BWSC Permit Application

c: Bozzuto Development Company; Attn: Jay Zachariah, Chris Mannix
Dimeo Construction Company; Attn: Frank Allard

TABLE

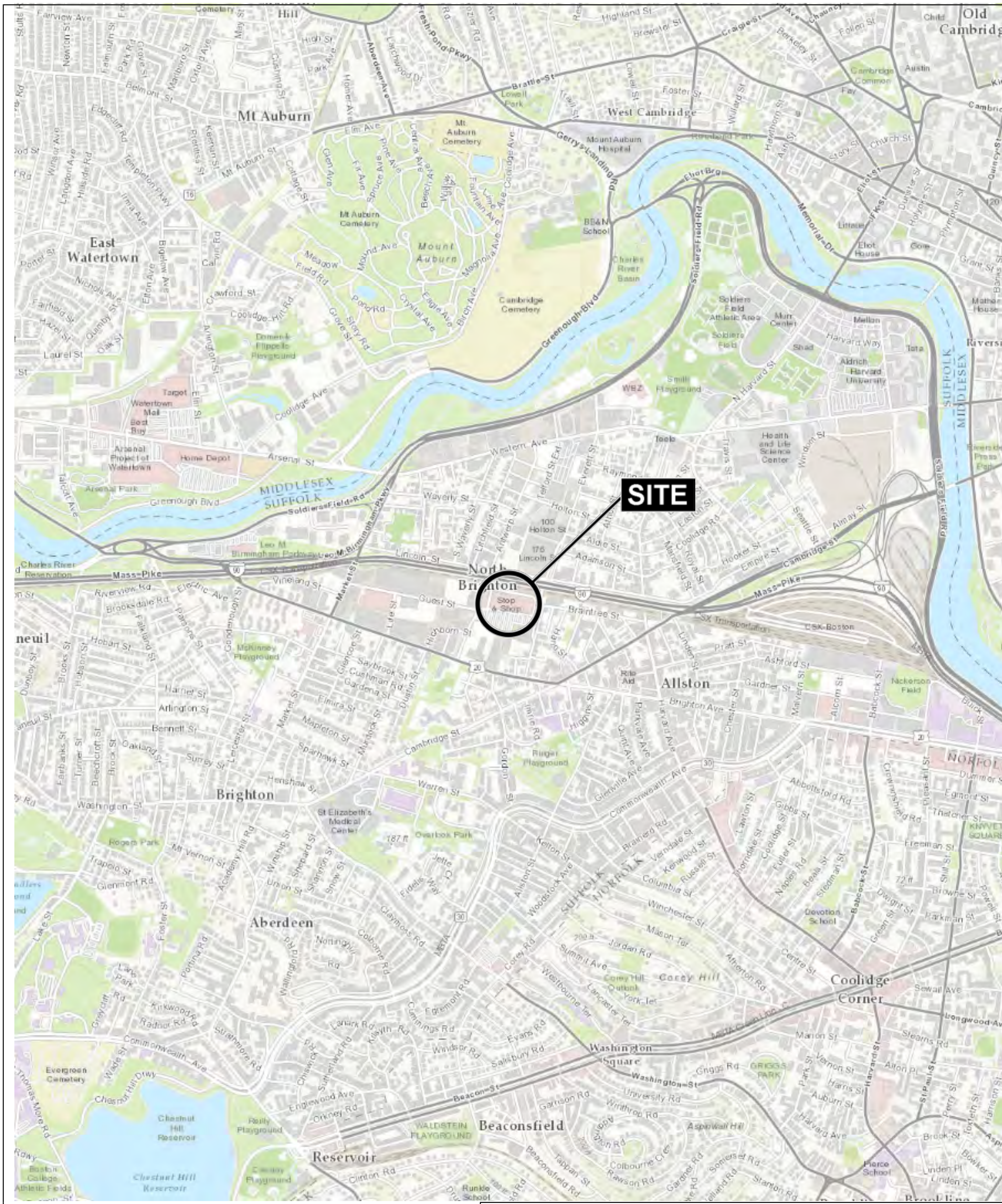
TABLE I
SUMMARY OF WATER QUALITY DATA
ALLSTON YARDS (60 EVERETT)
ALLSTON, MA
FILE NO. 134110

Precharacterization Grid	Action Level		OUTFALL	BUILDING A	HISTORIC DATA			
Location Name	MA RGP TBELs	MCP Reportable Concentration RCGW-1 2014	HA21-AY-RW	HA16-11(OW)	HA16-11(OW)	HA16-5(OW)	MW-10	MW-8
Sample Name			HA21-AY-RW-05242021	HA16-11_05242021	HA16-11(OW)_62916	HA16-5(OW)_62916	MW-10-20160615	MW-8-20160615
Sample Date			05/24/2021	05/24/2021	06/29/2016	06/29/2016	06/15/2016	06/15/2016
Lab Sample ID			L2127467-02	L2127467-01	L1620128-02	L1620128-03	L1618400-04	L1618400-03
Volatile Organic Compounds (ug/L)								
1,1,1-Trichloroethane	200	4000	-	ND (4)	ND (1)	ND (1)	ND (1)	ND (1)
1,1-Dichloroethane	70	2000	-	ND (3)	1.5	ND (1)	1	1.6
1,1-Dichloroethene	3.2	80	-	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
1,4-Dichlorobenzene	5	60	-	ND (10)	ND (1)	ND (1)	ND (1)	1
Chlorobenzene	NA	200	-	-	3.4	ND (1)	1.2	19
cis-1,2-Dichloroethene	70	20	-	17	**23**	ND (1)	**21**	**46**
Trichloroethene	5	5	-	**210**	**14**	ND (1)	**100**	**24**
Vinyl chloride	2	2	-	ND (2)	**5.8**	ND (1)	**2.7**	**3.1**
Semi-Volatile Organic Compounds (ug/L)								
bis(2-Ethylhexyl)phthalate	190	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)	-	-	-	-
Total Petroleum Hydrocarbons (mg/L)								
Petroleum hydrocarbons	5	5	-	ND (4.4)	-	-	-	-
Inorganic Compounds (mg/L)								
Chromium VI (Hexavalent), Dissolved	0.323	0.3	-	ND (0.01)	-	-	-	-
Antimony, Total	0.206	8	ND (0.004)	ND (0.004)	-	-	-	-
Arsenic, Total	0.104	0.9	ND (0.001)	ND (0.001)	-	-	-	-
Cadmium, Total	0.0102	0.004	ND (0.0002)	ND (0.0002)	-	-	-	-
Chromium, Total	NA	0.3	ND (0.001)	ND (0.001)	-	-	-	-
Copper, Total	0.242	100	0.00192	0.0041	-	-	-	-
Hardness, Total	NA	NA	403	427	-	-	-	-
Iron, Total	5	NA	0.553	0.492	-	-	-	-
Lead, Total	0.16	0.01	0.00134	0.00109	-	-	-	-
Mercury, Total	0.000739	0.02	ND (0.0002)	ND (0.0002)	-	-	-	-
Nickel, Total	1.45	0.2	ND (0.002)	0.00412	-	-	-	-
Selenium, Total	0.2358	0.1	ND (0.005)	ND (0.005)	-	-	-	-
Silver, Total	0.0351	0.007	ND (0.0004)	ND (0.0004)	-	-	-	-
Zinc, Total	0.42	0.9	ND (0.01)	ND (0.01)	-	-	-	-
Other								
Ammonia, Total (mg/L)	NA	NA	ND (0.15)	ND (0.075)	-	-	-	-
Chloride, Total (mg/L)	NA	NA	-	987	-	-	-	-
Chlorine, residual, Total (mg/L)	0.2	NA	-	ND (0.02)	-	-	-	-
Chromium III (Trivalent), Total (mg/L)	0.323	0.6	-	ND (0.01)	-	-	-	-
Cyanide, Total (mg/L)	178	0.03	-	ND (0.005)	-	-	-	-
Total Phenols (mg/L)	1.08	NA	-	ND (0.03)	-	-	-	-
Total Suspended Solids (TSS) (mg/L)	30	NA	-	6.2	-	-	-	-
pH (lab), Total (pH units)	NA	NA	7	6.6	-	-	-	-
Salinity, Total (SU)	NA	NA	-	ND (2)	-	-	-	-
Pesticides and PCBs (ug/L)								
Aroclor-1016 (PCB-1016)	6.40E-05	5	-	ND (0.25)	-	-	-	-
Aroclor-1221 (PCB-1221)	6.40E-05	5	-	ND (0.25)	-	-	-	-
Aroclor-1232 (PCB-1232)	6.40E-05	5	-	ND (0.25)	-	-	-	-
Aroclor-1242 (PCB-1242)	6.40E-05	5	-	ND (0.25)	-	-	-	-
Aroclor-1248 (PCB-1248)	6.40E-05	5	-	ND (0.25)	-	-	-	-
Aroclor-1254 (PCB-1254)	6.40E-05	5	-	ND (0.25)	-	-	-	-
Aroclor-1260 (PCB-1260)	6.40E-05	5	-	ND (0.2)	-	-	-	-
Semi-Volatile Organic Compounds (SIM) (ug/L)								
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)	-	-	-	-
Volatile Organic Compounds SIM (ug/L)								
1,4-Dioxane	200	6000	-	ND (10)	-	-	-	-

ABBREVIATIONS AND NOTES:
-: Not Analyzed
µg/L: micrograms per liter
bgs: below ground surface
ft: feet
mg/L: milligram per liter
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 data sheets.
- Groundwater samples analyzed for dissolved metals were filtered in the field with a 0.45 micrometer filter.
- Bold values indicate an exceedance of the **RCGW-2** criteria.

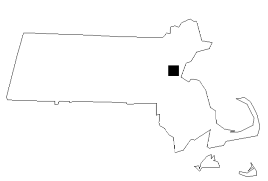
FIGURES



MAP SOURCE: ESRI

SITE COORDINATES: 42°21'24"N, 71°8'23"W

N



HALEY ALDRICH

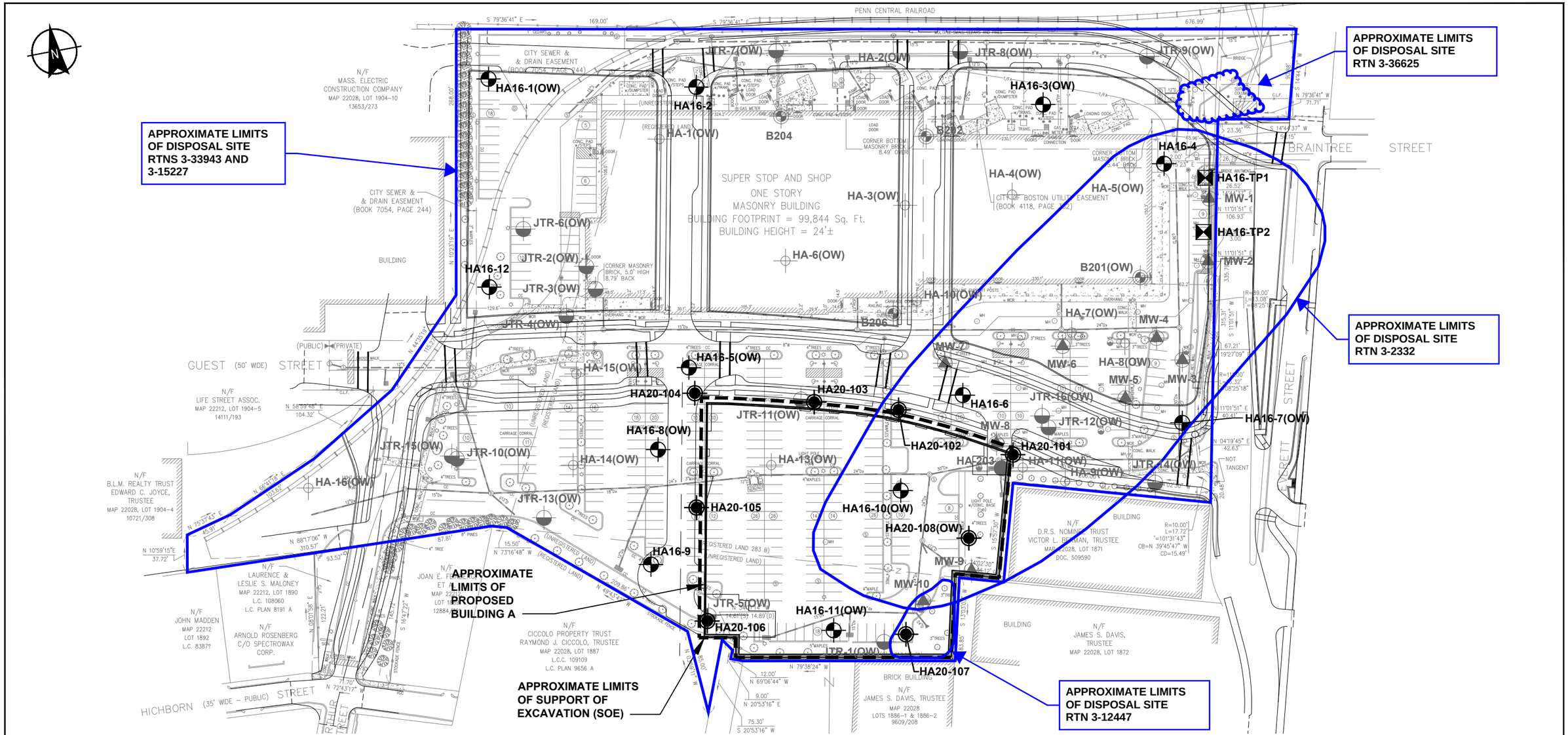
60 EVERETT STREET REDEVELOPMENT
ALLSTON, MASSACHUSETTS

PROJECT LOCUS

APPROXIMATE SCALE: 1 IN = 2000 FT
JULY 2021

FIGURE 1

43088-001_1_LOCUS.PDF



LEGEND

HA20-101 — DESIGNATION AND APPROXIMATE LOCATION OF TEST BORING DRILLED BY NEW ENGLAND BORING CONTRACTORS, INC. FOR HALEY & ALDRICH IN MAY AND JUNE 2020

HA16-TP1 — DESIGNATION AND APPROXIMATE LOCATION OF TEST PIT EXCAVATED BY THE JAMES W. FLETT COMPANY ON 11 JULY 2016

HA16-1(OW) — DESIGNATION AND APPROXIMATE LOCATION OF TEST BORING DRILLED BY NEW ENGLAND BORING CONTRACTORS IN JUNE 2016

MW-1 — DESIGNATION AND APPROXIMATE LOCATION OF MONITORING WELL INSTALLED BY GUILD DRILLING COMPANY IN MAY 1998. SOME OF THE WELLS MAY NO LONGER EXIST.

B202 — DESIGNATION AND APPROXIMATE LOCATION OF TEST BORING DRILLED BY GUILD DRILLING INC. IN MARCH 1997

HA-203 — DESIGNATION AND APPROXIMATE LOCATION OF TEST BORING DRILLED BY NEW HAMPSHIRE BORING INC. FOR HALEY & ALDRICH INC. IN JUNE 1995

HA-1(OW) — DESIGNATION AND APPROXIMATE LOCATION OF GEOPROBE EXPLORATION CONDUCTED BY ZEBRA ENVIRONMENTAL CORP. FOR HALEY & ALDRICH, INC. IN DECEMBER 1994

JTR-1(OW) — DESIGNATION AND APPROXIMATE LOCATION OF TEST BORING CONDUCTED BY ENVIRONMENTAL DRILLING INC. FOR WHITMAN & HOWARD INC. BETWEEN MARCH AND JUNE 1994

(OW) INDICATES OBSERVATION WELL INSTALLED IN COMPLETED BOREHOLE

NOTES

1. BASE PLAN TAKEN FROM DRAWING TITLED "EXISTING CONDITIONS PLAN OF LAND, STOP AND SHOP, 60 EVERETT STREET ALLSTON/BRIGHTON, MASSACHUSETTS", DATED 22 SEPTEMBER 2000, PREPARED BY VANASSE HANGEN BRUSTLIN, INC.
2. PROPOSED BUILDING LAYOUT TAKEN FROM AN ELECTRONIC FILE TILED "stn_arch_AllstonYards_ v2019-Sheet - A-100-P2 - LEVEL P2.dwg", PROVIDED BY VHB, INC. ON 14 APRIL 2020.
3. PROPOSED STREET LAYOUT TAKEN FROM AN ELECTRONIC FILE TITLED "12305.00_Building A_LM.dwg", PROVIDED BY VHB, INC. ON 9 APRIL 2020.

HALEY ALDRICH

ALLSTON YARDS - BUILDING A
ALLSTON, MASSACHUSETTS

SITE AND SUBSURFACE EXPLORATION LOCATION PLAN

SCALE: AS SHOWN
JULY 2021

FIGURE 2

ERVIN, DAYNA Printed:9/28/2020 10:35 AM Layout: B018
J:\GRAPHICS\134110\134110-002-B018.DWG

PROPOSED DISCHARGE ROUTE

APPROXIMATE LIMITS OF PROJECT SITE

APPROXIMATE LIMITS OF EXCAVATION AND CONSTRUCTION DEWATERING

PROPOSED DISCHARGE LOCATION

HALEY ALDRICH

ALLSTON YARDS – BUILDING A
60 EVERETT STREET
ALLSTON, MASSACHUSETTS

PROPOSED DISCHARGE ROUTE

SCALE: AS SHOWN
JULY 2021

FIGURE 3A

BOSTON WATER AND SEWER

N W E S

0 100 200 400 600 800

Feet

60 Everett

OUTFALL LOCATION

PROPOSED DISCHARGE ROUTE

MCDONALD AV

EVERETT ST

WESTERN AV

SPEEDWAY AV

TELFORD ST

ANTWERP ST

JUSTINIAN WY

GOULD ST

HOLTON ST

BRENTWOOD ST

WESTFORD ST

WESTFORD PL

EVERETT SQ

RIVERDALE ST

RAYMOND ST

ATHOL ST

ALDIE ST

BAGNAL ST

FERN ST

APPIAN WY

FRANKLIN ST

MYRICK ST

HOLMES ST

MEAD ST

PARKING

Charles Relief Sewer

Charles River Valley Sewer

SAINT ANTHONY'S ROMAN CATHOLIC CHURCH

SAINT ANTHONY'S CONVENT

THOMAS GARDNER ELEMENTARY SCHOOL

Underground Drainage Detention System

RECHARGE SYSTEM

HALEY ALDRICH

ALLSTON YARDS – BUILDING A
60 EVERETT STREET
ALLSTON, MASSACHUSETTS

PROPOSED DISCHARGE ROUTE

SCALE: AS SHOWN
JULY 2021

FIGURE 3B

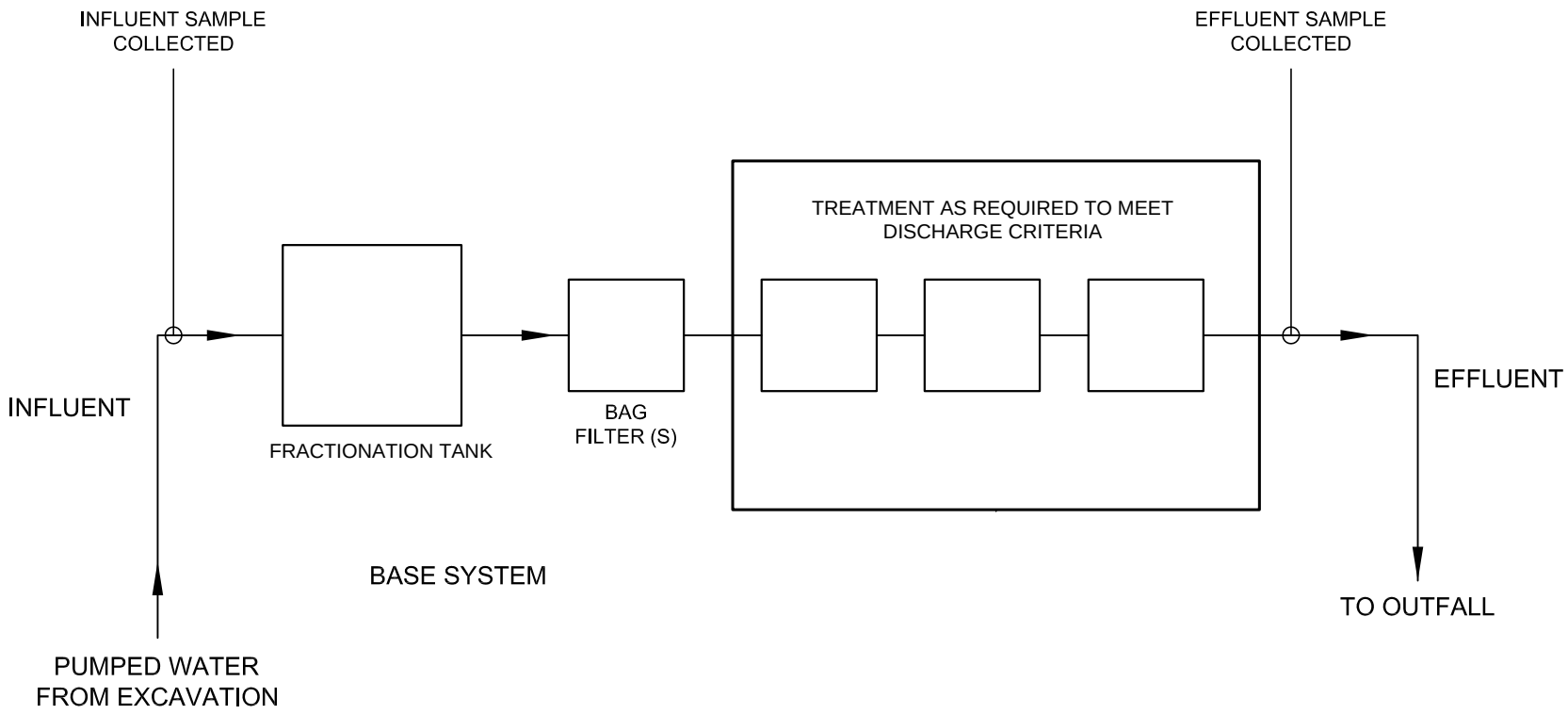
BOSTON WATER AND SEWER

N W E S

0 100 200 400 600 800

Feet

60 Everett2



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

ALLSTON YARDS - BUILDING A
60 EVERETT STREET
ALLSTON, MASSACHUSETTS

PROPOSED TREATMENT SYSTEM SCHEMATIC

SCALE: NONE
JULY 2021

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: Allston Yards - Building A	Site address: 60 Everett Street Street:		
	City: Allston	State: MA	Zip: 02134
2. Site owner Allston Yards Phase A LLC	Contact Person: Jeffrey Morgan		
	Telephone: 508-326-7276	Email: jmorgan@retailbusinessservices.c	
	Mailing address: 1385 Hancock Street Street:		
Owner is (check one): ☐ Federal ☐ State/Tribal ■ Private ☐ Other; if so, specify:	City: Quincy	State: MA	Zip: 02169
3. Site operator, if different than owner Dimeo Construction Company	Contact Person: Frank Allard		
	Telephone: 401-639-4557	Email: fallard@dimeo.com	
	Mailing address: Street: 88 Black Falcon Avenue, Suite 307		
	City: Boston	State: MA	Zip: 02210
4. NPDES permit number assigned by EPA: Not Applicable NPDES permit is (check all that apply: ■ RGP ☐ DGP ☐ CGP ☐ MSGP ☐ Individual NPDES permit ☐ Other; if so, specify:	5. Other regulatory program(s) that apply to the site (check all that apply): ■ MA Chapter 21e; list RTN(s): 3-33943, 3-2332, and 3-12447 ☐ NH Groundwater Management Permit or Groundwater Release Detection Permit: ☐ CERCLA ☐ UIC Program ☐ POTW Pretreatment ☐ CWA Section 404		

B. Receiving water information:

1. Name of receiving water(s):	Waterbody identification of receiving water(s):	Classification of receiving water(s):
Charles River	MA72-36	Class B

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

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

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

3. Indicate if the receiving water(s) is listed in the State's Integrated List of Waters (i.e., CWA Section 303(d)). Include which designated uses are impaired, and any pollutants indicated. Also, indicate if a final TMDL is available for any of the indicated pollutants. For more information, contact the appropriate State as noted in Part 4.6 of the RGP. Chlorophyll-a 33826, DDT in Fish Tissue, Dissolved Oxygen, E. Coli, Fish Bioassessments, Harmful Algal Blooms, Nutrient/Eutrophication Biological

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.	24.3
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.	73.7

6. Has the operator received confirmation from the appropriate State for the 7Q10and dilution factor indicated? (check one): ■ Yes ☐ No
If yes, indicate date confirmation received: 7 June 2021

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

C. Source water information:

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

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

2. Source water contaminants: Trichloroethylene, cis-1,2-dichloroethylene, vinyl chloride	
a. For source waters that are contaminated groundwater or contaminated surface water, indicate are any contaminants present that are not included in the RGP? (check one): ☐ Yes ■ No If yes, indicate the contaminant(s) and the maximum concentration present in accordance with the instructions in Appendix VIII.	b. For a source water that is a surface water other than the receiving water, potable water or other, indicate any contaminants present at the maximum concentration in accordance with the instructions in Appendix VIII? (check one): ☐ Yes ☐ No
3. Has the source water been previously chlorinated or otherwise contains residual chlorine? (check one): ☐ Yes ■ No	

D. Discharge information

1.The discharge(s) is a(n) (check any that apply): ☐ Existing discharge ■ New discharge ☐ New source	
Outfall(s): Charles River (MA72-36)	Outfall location(s): (Latitude, Longitude) 42.36673, -71.13665
Discharges enter the receiving water(s) via (check any that apply): ☐ Direct discharge to the receiving water ☐ Indirect discharge, if so, specify: ☐ A private storm sewer system ■ A municipal storm sewer system If the discharge enters the receiving water via a private or municipal storm sewer system: Has notification been provided to the owner of this system? (check one): ■ Yes ☐ No Has the operator has received permission from the owner to use such system for discharges? (check one): ■ Yes ☐ No, if so, explain, with an estimated timeframe for obtaining permission: Has the operator attached a summary of any additional requirements the owner of this system has specified? (check one): ☐ Yes ■ No	
Provide the expected start and end dates of discharge(s) (month/year): September 2021 - September 2022 Indicate if the discharge is expected to occur over a duration of: ☐ less than 12 months ■ 12 months or more ☐ is an emergency discharge	
Has the operator attached a site plan in accordance with the instructions in D, above? (check one): ■ Yes ☐ No	

2. Activity Category: (check all that apply)	3. Contamination Type Category: (check all that apply)	
☐ I – Petroleum-Related Site Remediation ☐ II – Non-Petroleum-Related Site Remediation ■ III – Contaminated Site Dewatering ☐ IV – Dewatering of Pipelines and Tanks ☐ V – Aquifer Pump Testing ☐ VI – Well Development/Rehabilitation ☐ VII – Collection Structure Dewatering/Remediation ☐ VIII – Dredge-Related Dewatering	a. If Activity Category I or II: (check all that apply) ☐ A. Inorganics ☐ B. Non-Halogenated Volatile Organic Compounds ☐ C. Halogenated Volatile Organic Compounds ☐ D. Non-Halogenated Semi-Volatile Organic Compounds ☐ E. Halogenated Semi-Volatile Organic Compounds ☐ F. Fuels Parameters	
	b. If Activity Category III, IV, V, VI, VII or VIII: (check either G or H)	
	■ G. Sites with Known Contamination	☐ H. Sites with Unknown Contamination
	c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply) ■ A. Inorganics ■ B. Non-Halogenated Volatile Organic Compounds ■ C. Halogenated Volatile Organic Compounds ■ D. Non-Halogenated Semi-Volatile Organic Compounds ☐ E. Halogenated Semi-Volatile Organic Compounds ■ F. Fuels Parameters	d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply

4. Influent and Effluent Characteristics

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
A. Inorganics									
Ammonia	✓		1	121.4500	75	<75	<75	Report mg/L	---
Chloride		✓	1	44.300.0	25000	987.000	987.000	Report µg/l	---
Total Residual Chlorine	✓		1	121.4500	20	<20	<20	0.2 mg/L	NA
Total Suspended Solids		✓	1	121.2540D	5000	6200	6200	30 mg/L	---
Antimony	✓		1	3.200.8	4	<4	<4	206 µg/L	NA
Arsenic	✓		1	3.200.8	1	<1	<1	104 µg/L	NA
Cadmium	✓		1	3.200.8	2	<2	<2	10.2 µg/L	NA
Chromium III	✓		1	107.-	10	<10	<10	323 µg/L	NA
Chromium VI	✓		1	1.7196A	10	<10	<10	323 µg/L	NA
Copper		✓	1	3.200.8	1	4.1	4.1	242 µg/L	NA
Iron		✓	1	19.200.7	50	492	492	5,000 µg/L	NA
Lead		✓	1	3.200.8	1	1.09	1.09	160 µg/L	NA
Mercury	✓		1	3.245.1	0.2	<0.2	<0.2	0.739 µg/L	NA
Nickel		✓	1	3.200.8	2	4.12	4.12	1,450 µg/L	NA
Selenium	✓		1	3.200.8	5	<5	<5	235.8 µg/L	NA
Silver	✓		1	3.200.8	0.4	<0.4	<0.4	35.1 µg/L	NA
Zinc	✓		1	3.200.8	10	<10	<10	420 µg/L	NA
Cyanide	✓		1	121.4500	5	<5	<5	178 mg/L	NA
B. Non-Halogenated VOCs									
Total BTEX	✓		5	128.624.1	2	<2	<2	100 µg/L	---
Benzene	✓		5	128.624.1	2	<2	<2	5.0 µg/L	---
1,4 Dioxane	✓		5	128.624.1	10	<10	<10	200 µg/L	---
Acetone	✓		5	128.624.1	20	<20	<20	7.97 mg/L	---
Phenol	✓		5	4.420.1	30	<30	<30	1,080 µg/L	NA

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	✓		5	128.624.1	2	<2	<2	4.4 µg/L	NA
1,2 Dichlorobenzene	✓		5	128.624.1	10	<10	<10	600 µg/L	---
1,3 Dichlorobenzene	✓		5	128.624.1	10	<10	<10	320 µg/L	---
1,4 Dichlorobenzene	✓		5	128.624.1	10	<10	<10	5.0 µg/L	---
Total dichlorobenzene	✓		5	128.624.1	10	<10	<10	763 µg/L in NH	---
1,1 Dichloroethane		✓	5	97.8260C	1	1.5	1.5	70 µg/L	---
1,2 Dichloroethane	✓		5	128.624.1	3	<3	<3	5.0 µg/L	---
1,1 Dichloroethylene	✓		5	128.624.1	2	<2	<2	3.2 µg/L	---
Ethylene Dibromide	✓		5	128.624.1	0.01	<0.01	<0.01	0.05 µg/L	---
Methylene Chloride	✓		5	128.624.1	2	<2	<22	4.6 µg/L	---
1,1,1 Trichloroethane	✓		5	128.624.1	4	<4	<4	200 µg/L	---
1,1,2 Trichloroethane	✓		5	128.624.1	3	<3	<3	5.0 µg/L	---
Trichloroethylene		✓	5	128.624.1	2	210	26.75	5.0 µg/L	---
Tetrachloroethylene	✓		5	128.624.1	2	<2	<2	5.0 µg/L	NA
cis-1,2 Dichloroethylene		✓	5	128.624.1	1	46	87.0	70 µg/L	---
Vinyl Chloride		✓	5	128.624.1	2	5.8	3.87	2.0 µg/L	---
D. Non-Halogenated SVOCs									
Total Phthalates	✓		1	129.625.1	5	<5	<5	190 µg/L	NA
Diethylhexyl phthalate	✓		1	129.625.1	2.2	<2.2	<2.2	101 µg/L	NA
Total Group I PAHs	✓		1	129.625.1	0.1	<0.1	<0.1	1.0 µg/L	---
Benzo(a)anthracene	✓		1	129.625.1	0.1	<0.1	<0.1	As Total PAHs	NA
Benzo(a)pyrene	✓		1	129.625.1	0.1	<0.1	<0.1		NA
Benzo(b)fluoranthene	✓		1	129.625.1	0.1	<0.1	<0.1		NA
Benzo(k)fluoranthene	✓		1	129.625.1	0.1	<0.1	<0.1		NA
Chrysene	✓		1	129.625.1	0.1	<0.1	<0.1		NA
Dibenzo(a,h)anthracene	✓		1	129.625.1	0.1	<0.1	<0.1		NA
Indeno(1,2,3-cd)pyrene	✓		1	129.625.1	0.1	<0.1	<0.1		NA

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
Total Group II PAHs	✓		1	129.625.1	0.1	<0.1	<0.1	100 µg/L	---
Naphthalene	✓		1	129.625.1	0.1	<0.1	<0.1	20 µg/L	---
E. Halogenated SVOCs									
Total PCBs	✓		1	127.608.3	0.25	<0.25	<0.25	0.000064 µg/L	---
Pentachlorophenol	✓		1	129.625.1	1	<1	<1	1.0 µg/L	---
F. Fuels Parameters									
Total Petroleum Hydrocarbons	✓		1	74.1664A	4400	<4400	<4400	5.0 mg/L	---
Ethanol	✓		NA	NA	NA	NA	NA	Report mg/L	---
Methyl-tert-Butyl Ether	✓		5	128.624.1	20	<20	<20	70 µg/L	NA
tert-Butyl Alcohol	✓		1	128.624.1	200	<200	<200	120 µg/L in MA 40 µg/L in NH	---
tert-Amyl Methyl Ether	✓		5	128.624.1	40	<40	<40	90 µg/L in MA 140 µg/L in NH	---
Other (i.e., pH, temperature, hardness, salinity, LC_{50}, additional pollutants present); if so, specify:									
Hardness		✓	1	19.2007	660	427000	427000		
pH		✓	1	121.45000	NA	6.6	6.6		
Salinity	✓		1	121.2520B	2000	<2000	<2000		

E. Treatment system information

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

☐ Adsorption/Absorption ☐ Advanced Oxidation Processes ☐ Air Stripping ■ Granulated Activated Carbon ("GAC")/Liquid Phase Carbon Adsorption
☐ Ion Exchange ☐ Precipitation/Coagulation/Flocculation ■ Separation/Filtration ■ Other; if so, specify:
Treatment as required to meet effluent limitations.

2. Provide a written description of all treatment system(s) or processes that will be applied to the effluent prior to discharge.
Prior to discharge, collected water is routed through a sedimentation tank and bag filters to remove suspended solids and undissolved chemical constituents. Additional treatment will include granulated activated carbon (GAC) and pH adjustment, as needed to meet necessary effluent limits established by the permit.

Identify each major treatment component (check any that apply):
■ Fractionation tanks☐ Equalization tank ☐ Oil/water separator ☐ Mechanical filter ☐ Media filter
☐ Chemical feed tank ☐ Air stripping unit ■ Bag filter ■ Other; if so, specify: Granulated Activated Carbon (GAC) and/or pH adjustment may be added to meet necessary effluent limits.
Indicate if either of the following will occur (check any that apply):
☐ Chlorination ☐ De-chlorination

3. Provide the **design flow capacity** in gallons per minute (gpm) of the most limiting component. Indicate the most limiting component: Is use of a flow meter feasible? (check one): ■ Yes ☐ No, if so, provide justification:	150 GPM
Provide the proposed maximum effluent flow in gpm.	150 GPM
Provide the average effluent flow in gpm.	50 GPM
If Activity Category IV applies, indicate the estimated total volume of water that will be discharged:	NA

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

F. Chemical and additive information

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

☐ Algaecides/biocides ☐ Antifoams ☐ Coagulants ☐ Corrosion/scale inhibitors ☐ Disinfectants ☐ Flocculants ☐ Neutralizing agents ☐ Oxidants ☐ Oxygen ☐ scavengers ■ pH conditioners ☐ Bioremedial agents, including microbes ☐ Chlorine or chemicals containing chlorine ■ Other; if so, specify:
The site contractor has not yet submitted their construction dewatering submittal which will include details of the proposed treatment system along with Safety Data Sheets (SDSs).

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

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

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

G. Endangered Species Act eligibility determination

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

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

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

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

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

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

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

H. National Historic Preservation Act eligibility determination

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

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

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

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

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

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

I. Supplemental information

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

Refer to attached Haley & Aldrich, Inc. 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.

BMPP certification statement: A BMPP meeting the requirements of this general permit will be implemented upon initiation of discharge and available for review at the site.		
Notification provided to the appropriate State, including a copy of this NOI, if required.	Check one: Yes ☐ No ☐	Not Required
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: Francis C Allard	Date: 7/28/2021	
Print Name and Title: FRANCIS C. ALLARD, PROJECT EXECUTIVE		

PARAMETERS DETECTED IN SOIL

Non-Halogenated VOCs
Methyl Ethyl Ketone
Acetone
Toluene
Xylene (total)

Halogenated VOCs
1,1,1-Trichloroethane
1,1-Dichloroethane
1,2,4-Trimethylbenzene
1,2-Dichlorobenzene
1,4-Dichlorobenzene
2-Phenylbutane (sec-Butylbenzene)
Bromomethane
Chlorobenzene
Chloroform
cis-1,2-Dichloroethene
Cymene (p-Isopropyltoluene)
Naphthalene
n-Butylbenzene
n-Propylbenzene
Trichloroethene
Vinyl chloride

Fuel Parameters
Petroleum Hydrocarbons

Non-Halogenated SVOCs
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
bis(2-Ethylhexyl)phthalate
Chrysene
Dibenz(a,h)anthracene
Dibenzofuran
Fluoranthene
Fluorene
Indeno(1,2,3-cd)pyrene
Naphthalene
Phenanthrene
Pyrene

Halogenated SVOCs
Total PCBs

Inorganics

Arsenic
Barium
Beryllium
Cadmium
Chromium
Lead
Mercury
Nickel
Vanadium
Zinc

APPENDIX B

Laboratory Data Reports

ANALYTICAL REPORT

Lab Number:	L1618400
Client:	Haley & Aldrich, Inc. 465 Medford Street, Suite 2200 Charlestown, MA 02129-1400
ATTN:	Jesse Siegel
Phone:	(617) 886-7400
Project Name:	60 EVERETT ST. REDEVELOPMENT
Project Number:	43088-002
Report Date:	06/21/16

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: 60 EVERETT ST. REDEVELOPMENT
Project Number: 43088-002

Lab Number: L1618400
Report Date: 06/21/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1618400-01	MW-1	WATER	60 EVERETT ST., BOSTON, MA	06/15/16 08:40	06/15/16
L1618400-02	MW-2	WATER	60 EVERETT ST., BOSTON, MA	06/15/16 09:30	06/15/16
L1618400-03	MW-8	WATER	60 EVERETT ST., BOSTON, MA	06/15/16 10:45	06/15/16
L1618400-04	MW-10	WATER	60 EVERETT ST., BOSTON, MA	06/15/16 11:40	06/15/16

Project Name: 60 EVERETT ST. REDEVELOPMENT **Lab Number:** L1618400

Project Number: 43088-002 **Report Date:** 06/21/16

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	60 EVERETT ST. REDEVELOPMENT	**Lab Number:**	L1618400
Project Number:	43088-002	**Report Date:**	06/21/16

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name: 60 EVERETT ST. REDEVELOPMENT **Lab Number:** L1618400
Project Number: 43088-002 **Report Date:** 06/21/16

Case Narrative (continued)

MCP Related Narratives

Volatile Organics

In reference to question H:

The initial calibration, associated with L1618400-01 through -04 (all samples), did not meet the method required minimum response factor on the lowest calibration standard for trichloroethene (0.1803), 4-methyl-2-pentanone (0.0900), 2-hexanone (0.0928) and 1,4-dioxane (0.0003), as well as the average response factor for 4-methyl-2-pentanone and 1,4-dioxane. The initial calibration verification is outside acceptance criteria for tetrahydrofuran (65%), but within overall method criteria

The continuing calibration standard, associated with L1618400-01 through -04 (all samples), is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 06/21/16

ORGANICS

VOLATILES

Project Name: 60 EVERETT ST. REDEVELOPMENT **Lab Number:** L1618400

Project Number: 43088-002 **Report Date:** 06/21/16

SAMPLE RESULTS

Lab ID: L1618400-01
Client ID: MW-1
Sample Location: 60 EVERETT ST., BOSTON, MA
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 06/20/16 09:45
Analyst: MM

Date Collected: 06/15/16 08:40
Date Received: 06/15/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	2.5		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	2.3		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 60 EVERETT ST. REDEVELOPMENT **Lab Number:** L1618400

Project Number: 43088-002 **Report Date:** 06/21/16

SAMPLE RESULTS

Lab ID: L1618400-01 Date Collected: 06/15/16 08:40

Client ID: MW-1 Date Received: 06/15/16

Sample Location: 60 EVERETT ST., BOSTON, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1

Project Name: 60 EVERETT ST. REDEVELOPMENT **Lab Number:** L1618400

Project Number: 43088-002 **Report Date:** 06/21/16

SAMPLE RESULTS

Lab ID: L1618400-01 Date Collected: 06/15/16 08:40

Client ID: MW-1 Date Received: 06/15/16

Sample Location: 60 EVERETT ST., BOSTON, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	96		70-130

Project Name: 60 EVERETT ST. REDEVELOPMENT **Lab Number:** L1618400

Project Number: 43088-002 **Report Date:** 06/21/16

SAMPLE RESULTS

Lab ID: L1618400-02
Client ID: MW-2
Sample Location: 60 EVERETT ST., BOSTON, MA
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 06/20/16 10:10
Analyst: MM

Date Collected: 06/15/16 09:30
Date Received: 06/15/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	2.0		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	1.9		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	1.4		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 60 EVERETT ST. REDEVELOPMENT **Lab Number:** L1618400

Project Number: 43088-002 **Report Date:** 06/21/16

SAMPLE RESULTS

Lab ID: L1618400-02 Date Collected: 06/15/16 09:30

Client ID: MW-2 Date Received: 06/15/16

Sample Location: 60 EVERETT ST., BOSTON, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	3.9		ug/l	1.0	--	1
1,2-Dichloroethene (total)	3.9		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1

Project Name: 60 EVERETT ST. REDEVELOPMENT **Lab Number:** L1618400

Project Number: 43088-002 **Report Date:** 06/21/16

SAMPLE RESULTS

Lab ID: L1618400-02 Date Collected: 06/15/16 09:30

Client ID: MW-2 Date Received: 06/15/16

Sample Location: 60 EVERETT ST., BOSTON, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	96		70-130

Project Name: 60 EVERETT ST. REDEVELOPMENT **Lab Number:** L1618400

Project Number: 43088-002 **Report Date:** 06/21/16

SAMPLE RESULTS

Lab ID: L1618400-03
Client ID: MW-8
Sample Location: 60 EVERETT ST., BOSTON, MA
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 06/20/16 11:00
Analyst: MM

Date Collected: 06/15/16 10:45
Date Received: 06/15/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	1.6		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	19		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	3.1		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	24		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 60 EVERETT ST. REDEVELOPMENT **Lab Number:** L1618400

Project Number: 43088-002 **Report Date:** 06/21/16

SAMPLE RESULTS

Lab ID: L1618400-03 Date Collected: 06/15/16 10:45

Client ID: MW-8 Date Received: 06/15/16

Sample Location: 60 EVERETT ST., BOSTON, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	1.0		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	46		ug/l	1.0	--	1
1,2-Dichloroethene (total)	46		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1

Project Name: 60 EVERETT ST. REDEVELOPMENT **Lab Number:** L1618400

Project Number: 43088-002 **Report Date:** 06/21/16

SAMPLE RESULTS

Lab ID: L1618400-03 Date Collected: 06/15/16 10:45

Client ID: MW-8 Date Received: 06/15/16

Sample Location: 60 EVERETT ST., BOSTON, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	95		70-130

Project Name: 60 EVERETT ST. REDEVELOPMENT **Lab Number:** L1618400

Project Number: 43088-002 **Report Date:** 06/21/16

SAMPLE RESULTS

Lab ID: L1618400-04
Client ID: MW-10
Sample Location: 60 EVERETT ST., BOSTON, MA
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 06/20/16 10:35
Analyst: MM

Date Collected: 06/15/16 11:40
Date Received: 06/15/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	1.0		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	1.2		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	2.7		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	100		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 60 EVERETT ST. REDEVELOPMENT **Lab Number:** L1618400

Project Number: 43088-002 **Report Date:** 06/21/16

SAMPLE RESULTS

Lab ID: L1618400-04 Date Collected: 06/15/16 11:40

Client ID: MW-10 Date Received: 06/15/16

Sample Location: 60 EVERETT ST., BOSTON, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	21		ug/l	1.0	--	1
1,2-Dichloroethene (total)	21		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1

Project Name: 60 EVERETT ST. REDEVELOPMENT **Lab Number:** L1618400

Project Number: 43088-002 **Report Date:** 06/21/16

SAMPLE RESULTS

Lab ID: L1618400-04 Date Collected: 06/15/16 11:40

Client ID: MW-10 Date Received: 06/15/16

Sample Location: 60 EVERETT ST., BOSTON, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	97		70-130

Project Name: 60 EVERETT ST. REDEVELOPMENT **Lab Number:** L1618400

Project Number: 43088-002 **Report Date:** 06/21/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/20/16 07:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG905702-5					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--

Project Name: 60 EVERETT ST. REDEVELOPMENT **Lab Number:** L1618400

Project Number: 43088-002 **Report Date:** 06/21/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/20/16 07:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG905702-5					
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylene (Total)	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene (total)	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--

Project Name: 60 EVERETT ST. REDEVELOPMENT **Lab Number:** L1618400

Project Number: 43088-002 **Report Date:** 06/21/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/20/16 07:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG905702-5					
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 EVERETT ST. REDEVELOPMENT

Project Number: 43088-002

Lab Number: L1618400

Report Date: 06/21/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG905702-3 WG905702-4								
Methylene chloride	89		98		70-130	10		20
1,1-Dichloroethane	97		100		70-130	3		20
Chloroform	92		100		70-130	8		20
Carbon tetrachloride	80		87		70-130	8		20
1,2-Dichloropropane	96		110		70-130	14		20
Dibromochloromethane	86		88		70-130	2		20
1,1,2-Trichloroethane	97		98		70-130	1		20
Tetrachloroethene	96		94		70-130	2		20
Chlorobenzene	97		97		70-130	0		20
Trichlorofluoromethane	86		94		70-130	9		20
1,2-Dichloroethane	77		86		70-130	11		20
1,1,1-Trichloroethane	85		93		70-130	9		20
Bromodichloromethane	81		88		70-130	8		20
trans-1,3-Dichloropropene	95		95		70-130	0		20
cis-1,3-Dichloropropene	93		100		70-130	7		20
1,1-Dichloropropene	93		100		70-130	7		20
Bromoform	84		84		70-130	0		20
1,1,2,2-Tetrachloroethane	98		100		70-130	2		20
Benzene	97		100		70-130	3		20
Toluene	98		97		70-130	1		20
Ethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 EVERETT ST. REDEVELOPMENT

Project Number: 43088-002

Lab Number: L1618400

Report Date: 06/21/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG905702-3 WG905702-4								
Chloromethane	110		120		70-130	9		20
Bromomethane	80		84		70-130	5		20
Vinyl chloride	120		130		70-130	8		20
Chloroethane	110		120		70-130	9		20
1,1-Dichloroethene	94		100		70-130	6		20
trans-1,2-Dichloroethene	95		100		70-130	5		20
Trichloroethene	89		97		70-130	9		20
1,2-Dichlorobenzene	92		94		70-130	2		20
1,3-Dichlorobenzene	98		96		70-130	2		20
1,4-Dichlorobenzene	97		95		70-130	2		20
Methyl tert butyl ether	81		89		70-130	9		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	92		100		70-130	8		20
Dibromomethane	84		92		70-130	9		20
1,2,3-Trichloropropane	92		95		70-130	3		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	93		100		70-130	7		20
Acetone	78		93		70-130	18		20
Carbon disulfide	100		110		70-130	10		20
2-Butanone	75		90		70-130	18		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 60 EVERETT ST. REDEVELOPMENT
Project Number: 43088-002

Lab Number: L1618400
Report Date: 06/21/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG905702-3 WG905702-4								
4-Methyl-2-pentanone	83		83		70-130	0		20
2-Hexanone	86		87		70-130	1		20
Bromochloromethane	91		99		70-130	8		20
Tetrahydrofuran	76		88		70-130	15		20
2,2-Dichloropropane	98		100		70-130	2		20
1,2-Dibromoethane	93		92		70-130	1		20
1,3-Dichloropropane	96		96		70-130	0		20
1,1,1,2-Tetrachloroethane	88		88		70-130	0		20
Bromobenzene	97		97		70-130	0		20
n-Butylbenzene	110		110		70-130	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	74		81		70-130	9		20
Hexachlorobutadiene	96		99		70-130	3		20
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	86		89		70-130	3		20
n-Propylbenzene	110		120		70-130	9		20
1,2,3-Trichlorobenzene	85		89		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 EVERETT ST. REDEVELOPMENT

Project Number: 43088-002

Lab Number: L1618400

Report Date: 06/21/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG905702-3 WG905702-4								
1,2,4-Trichlorobenzene	90		93		70-130	3		20
1,3,5-Trimethylbenzene	100		100		70-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
Ethyl ether	90		97		70-130	7		20
Isopropyl Ether	97		110		70-130	13		20
Ethyl-Tert-Butyl-Ether	89		97		70-130	9		20
Tertiary-Amyl Methyl Ether	84		92		70-130	9		20
1,4-Dioxane	84		106		70-130	**23**	Q	20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	76		86		70-130
Toluene-d8	104		103		70-130
4-Bromofluorobenzene	111		110		70-130
Dibromofluoromethane	84		93		70-130

Project Name: 60 EVERETT ST. REDEVELOPMENT
Project Number: 43088-002

Lab Number: L1618400
Report Date: 06/21/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1618400-01A	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)
L1618400-01B	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)
L1618400-01C	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)
L1618400-02A	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)
L1618400-02B	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)
L1618400-02C	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)
L1618400-03A	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)
L1618400-03B	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)
L1618400-03C	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)
L1618400-04A	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)
L1618400-04B	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)
L1618400-04C	Vial HCl preserved	A	N/A	3.0	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days

Project Name:	60 EVERETT ST. REDEVELOPMENT	**Lab Number:**	L1618400
Project Number:	43088-002	**Report Date:**	06/21/16

GLOSSARY

Acronyms

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).
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.
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.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

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.

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.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
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

Report Format: Data Usability Report

Project Name:	60 EVERETT ST. REDEVELOPMENT	**Lab Number:**	L1618400
Project Number:	43088-002	**Report Date:**	06/21/16

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	60 EVERETT ST. REDEVELOPMENT	**Lab Number:**	L1618400
Project Number:	43088-002	**Report Date:**	06/21/16

REFERENCES

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 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.

Certification Information

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

Westborough Facility
EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene
EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene
EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.
EPA 1010A: NPW: Ignitability
EPA 6010C: NPW: Strontium; SCM: Strontium
EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation
EPA 9038: NPW: Sulfate
EPA 9050A: NPW: Specific Conductance
EPA 9056: NPW: Chloride, Nitrate, Sulfate
EPA 9065: NPW: Phenols
EPA 9251: NPW: Chloride
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam
EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane
SM 2540D: TSS
SM2540G: SCM: Percent Solids
EPA 1631E: SCM: Mercury
EPA 7474: SCM: Mercury
EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA 8270-SIM: NPW and SCM: Alkylated PAHs.
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, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.
Biological Tissue Matrix: ***8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:*** Lead***; 8270D:*** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

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

ALPHA ANALYTICAL — CHAIN OF CUSTODY

Service Centers
Brewer, ME 04412 Portsmouth, NH 03801 Mahwah, NJ 07430
Albany, NY 12205
Tonawanda, NY 14150 Holmes, PA 19043

Page ___ of ___

Date Rec'd in Lab: 6/15/16

ALPHA Job #: L1618400

Westborough, MA 01581, 8 Walkup Dr., TEL: 508-898-9220, FAX: 508-898-9193
Mansfield, MA 02048, 320 Forbes Blvd, TEL: 508-822-9300, FAX: 508-822-3288

Project Information

Project Name:	60 Everett Street Redevelopment
Project Location:	60 Everett Street, Brighton/Allston, MA
Project #	43088-002
(Use Project name as Project #)	☐
Project Manager:	Jesse Siegel
ALPHAQuote #:	

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☑ Email ☐ Fax
☑ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other:

Billing Information
☑ Same as Client Info
PO #

Regulatory Requirements (Program/Criteria)
Note: Select State from menu & identify criteria.

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

H&A Information

H&A Client:	Ahold USA Inc
H&A Address:	465 Medford St
	Boston, MA 0212-1400
H&A Phone:	617-886-7400
H&A Fax:	
H&A Email:	jsiegel@haleyaldrich.com

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS: 1. VOCs 8260

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	1. VOCs 8260	Sample Specific Comments	Total Bottles
18400-01	MW-1	6/15/16	840	AQ	SRP	X		3
02	MW-2	↓	930	↓	↓	X		3
03	MW-8	↓	1045	↓	↓	X		3
04	MW-10	↓	1140	↓	↓	X		3

Container Type	V	A	A	A	A	A	A
Preservative	B						

Preservative Code: A = None, B = HCl, C = HNO_3, D = H_2SO_4, E = NaOH, F = MeOH, G = $NaHSO_4$, H = $Na_2S_2O_3$, K/E = Zn Ac/NaOH, O = Other

Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
A. Prml	6/15/16	M. Cutts	6/15/16 16:30
M. Cutts	6/15/16 16:3_	[signature] AAL	6/15/16 1705
[signature]	6/15/16 1848	Richard S. [illegible]	6/15/16 18:45

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. Alpha Analytical's services under this Chain of Custody shall be performed in accordance with terms and conditions within Blanket Service Agreement# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

Document ID: 20455 Rev 1 (1/28/2016)

Method Blank Summary
Form 4

Client	: Haley & Aldrich, Inc.	**Lab Number**	: L1618400
Project Name	: 60 EVERETT ST. REDEVELOPMENT	**Project Number**	: 43088-002
Lab Sample ID	: WG905702-5	**Lab File ID**	: V16160620B06
Instrument ID	: VOA116		
Matrix	: WATER	**Analysis Date**	: 06/20/16 07:15

Client Sample No.	Lab Sample ID	Analysis Date
WG905702-3LCS	WG905702-3	06/20/16 06:00
WG905702-4LCSD	WG905702-4	06/20/16 06:25
MW-1	L1618400-01	06/20/16 09:45
MW-2	L1618400-02	06/20/16 10:10
MW-10	L1618400-04	06/20/16 10:35
MW-8	L1618400-03	06/20/16 11:00

Continuing Calibration
Form 7

Client	: Haley & Aldrich, Inc.	**Lab Number**	: L1618400	
Project Name	: 60 EVERETT ST. REDEVELOPMENT	**Project Number**	: 43088-002	
Instrument ID	: VOA116	**Calibration Date**	: 06/20/16 06:00	
Lab File ID	: V16160620B03	**Init. Calib. Date(s)**	: 06/09/16	06/09/16
Sample No	: WG905702-2	**Init. Calib. Times**	: 17:39	20:37
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	0	0	20	175	0
Dichlorodifluoromethane	0.262	0.243	0	7.3	20	154	0
Chloromethane	0.298	0.337	0	-13.1	20	197	0
Vinyl chloride	0.298	0.356	0	-19.5	20	207	0
Bromomethane	0.162	0.129	0	20.4*	20	160	0
Chloroethane	0.172	0.187	0	-8.7	20	184	0
Trichlorofluoromethane	0.401	0.343	0	14.5	20	144	0
Ethyl ether	0.132	0.118	0	10.6	20	165	0
1,1-Dichloroethene	0.217	0.204	0	6	20	167	0
Carbon disulfide	0.748	0.762	0	-1.9	20	183	0
Methylene chloride	0.268	0.239	0	10.8	20	171	0
Acetone	10	7.858	0	21.4*	20	147	0
trans-1,2-Dichloroethene	0.25	0.238	0	4.8	20	175	0
Methyl tert-butyl ether	0.644	0.52	0	19.3	20	148	0
Diisopropyl ether	0.862	0.839	0	2.7	20	183	0
1,1-Dichloroethane	0.518	0.503	0	2.9	20	180	0
Ethyl tert-butyl ether	0.786	0.699	0	11.1	20	163	0
cis-1,2-Dichloroethene	0.279	0.257	0	7.9	20	170	0
2,2-Dichloropropane	0.427	0.42	0	1.6	20	184	0
Bromochloromethane	0.098	0.089	0	9.2	20	156	0
Chloroform	0.397	0.367	0	7.6	20	171	0
Carbon tetrachloride	0.307	0.245	0	20.2*	20	141	0
Tetrahydrofuran	10	7.552	0	24.5*	20	143	0
Dibromofluoromethane	0.268	0.225	0	16	20	144	0
1,1,1-Trichloroethane	0.348	0.296	0	14.9	20	152	0
2-Butanone	10	7.508	0	24.9*	20	133	0
1,1-Dichloropropene	0.309	0.289	0	6.5	20	175	0
Benzene	0.859	0.836	0	2.7	20	183	0
tert-Amyl methyl ether	0.544	0.456	0	16.2	20	150	0
1,2-Dichloroethane-d4	0.339	0.256	0	24.5*	20	131	0
1,2-Dichloroethane	0.297	0.229	0	22.9*	20	143	0
Trichloroethene	0.225	0.199	0	11.6	20	169	0
Dibromomethane	0.119	0.1	0	16	20	149	0
1,2-Dichloropropane	0.254	0.243	0	4.3	20	180	0
Bromodichloromethane	0.283	0.229	0	19.1	20	143	0
1,4-Dioxane	0.00034	0.00029	0	14.7	20	124	0
cis-1,3-Dichloropropene	0.393	0.367	0	6.6	20	164	0
Chlorobenzene-d5	1	1	0	0	20	153	0
Toluene-d8	1.34	1.388	0	-3.6	20	158	0
Toluene	0.751	0.737	0	1.9	20	170	0
4-Methyl-2-pentanone	0.084	0.07	0	16.7	20	135	0
Tetrachloroethene	0.281	0.27	0	3.9	20	155	0
trans-1,3-Dichloropropene	0.452	0.432	0	4.4	20	145	0
1,1,2-Trichloroethane	0.198	0.191	0	3.5	20	146	0
Chlorodibromomethane	0.27	0.234	0	13.3	20	124	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: Haley & Aldrich, Inc.	**Lab Number**	: L1618400	
Project Name	: 60 EVERETT ST. REDEVELOPMENT	**Project Number**	: 43088-002	
Instrument ID	: VOA116	**Calibration Date**	: 06/20/16 06:00	
Lab File ID	: V16160620B03	**Init. Calib. Date(s)**	: 06/09/16	06/09/16
Sample No	: WG905702-2	**Init. Calib. Times**	: 17:39	20:37
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,3-Dichloropropane	0.423	0.405	0	4.3	20	145	0
1,2-Dibromoethane	0.213	0.198	0	7	20	137	0
2-Hexanone	0.132	0.113	0	14.4	20	125	0
Chlorobenzene	0.767	0.747	0	2.6	20	150	0
Ethylbenzene	1.419	1.478	0	-4.2	20	163	0
1,1,1,2-Tetrachloroethane	0.282	0.248	0	12.1	20	131	0
p/m Xylene	0.541	0.524	0	3.1	20	154	0
o Xylene	0.515	0.494	0	4.1	20	149	0
Styrene	0.865	0.815	0	5.8	20	143	0
1,4-Dichlorobenzene-d4	1	1	0	0	20	133	0
Bromoform	0.341	0.286	0	16.1	20	111	0
Isopropylbenzene	2.591	2.854	0	-10.2	20	149	0
4-Bromofluorobenzene	0.974	1.081	0	-11	20	150	0
Bromobenzene	0.573	0.557	0	2.8	20	129	0
n-Propylbenzene	3.271	3.726	0	-13.9	20	152	0
1,1,2,2-Tetrachloroethane	0.54	0.531	0	1.7	20	122	0
2-Chlorotoluene	2.16	2.328	0	-7.8	20	142	0
1,3,5-Trimethylbenzene	2.186	2.269	0	-3.8	20	141	0
1,2,3-Trichloropropane	0.466	0.43	0	7.7	20	116	0
4-Chlorotoluene	1.956	2.086	0	-6.6	20	141	0
tert-Butylbenzene	1.816	1.864	0	-2.6	20	137	0
1,2,4-Trimethylbenzene	2.179	2.285	0	-4.9	20	140	0
sec-Butylbenzene	2.666	2.862	0	-7.4	20	143	0
p-Isopropyltoluene	2.212	2.269	0	-2.6	20	136	0
1,3-Dichlorobenzene	1.159	1.132	0	2.3	20	128	0
1,4-Dichlorobenzene	1.178	1.143	0	3	20	128	0
n-Butylbenzene	2.099	2.269	0	-8.1	20	145	0
1,2-Dichlorobenzene	1.073	0.986	0	8.1	20	122	0
1,2-Dibromo-3-chloropropan	0.073	0.054	0	26*	20	94	0
Hexachlorobutadiene	0.218	0.209	0	4.1	20	130	0
1,2,4-Trichlorobenzene	0.63	0.566	0	10.2	20	119	0
Naphthalene	1.437	1.229	0	14.5	20	110	0
1,2,3-Trichlorobenzene	0.574	0.491	0	14.5	20	114	0

* Value outside of QC limits.

ANALYTICAL REPORT

Lab Number:	L1620128
Client:	Haley & Aldrich, Inc. 465 Medford Street, Suite 2200 Charlestown, MA 02129-1400
ATTN:	Jesse Siegel
Phone:	(617) 886-7400
Project Name:	60 EVERETT ST BRIGHTON/ALLSTON
Project Number:	43088-002
Report Date:	07/06/16

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON
Project Number: 43088-002

Lab Number: L1620128
Report Date: 07/06/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1620128-01	HA16-7(OW)_62916	WATER	60 EVERETT STREET REDEVELOPMENT	06/29/16 09:30	06/29/16
L1620128-02	HA16-11(OW)_62916	WATER	60 EVERETT STREET REDEVELOPMENT	06/29/16 10:40	06/29/16
L1620128-03	HA16-5(OW)_62916	WATER	60 EVERETT STREET REDEVELOPMENT	06/29/16 12:00	06/29/16
L1620128-04	HA16-3(OW)_62916	WATER	60 EVERETT STREET REDEVELOPMENT	06/29/16 13:20	06/29/16

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON **Lab Number:** L1620128

Project Number: 43088-002 **Report Date:** 07/06/16

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	60 EVERETT ST BRIGHTON/ALLSTON	**Lab Number:**	L1620128
Project Number:	43088-002	**Report Date:**	07/06/16

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name:	60 EVERETT ST BRIGHTON/ALLSTON	**Lab Number:**	L1620128
Project Number:	43088-002	**Report Date:**	07/06/16

Case Narrative (continued)

MCP Related Narratives

In reference to question H:

The initial calibration, associated with L1620128-01 through -04 (all submitted samples), did not meet the method required minimum response factor on the lowest calibration standard for acetone (0.0644), 1,4-dioxane (0.0014) and 2-butanone (0.0772), as well as the average response factor for acetone, 1,4-dioxane and 2-butanone.

The continuing calibration standard, associated with L1620128-01 through -04 (all submitted samples), is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

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:  Lura L Troy

Title: Technical Director/Representative Date: 07/06/16

ORGANICS

VOLATILES

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON **Lab Number:** L1620128

Project Number: 43088-002 **Report Date:** 07/06/16

SAMPLE RESULTS

Lab ID: L1620128-01
Client ID: HA16-7(OW)_62916
Sample Location: 60 EVERETT STREET REDEVELOPMENT
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 07/05/16 08:49
Analyst: MM

Date Collected: 06/29/16 09:30
Date Received: 06/29/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	1.7		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON **Lab Number:** L1620128

Project Number: 43088-002 **Report Date:** 07/06/16

SAMPLE RESULTS

Lab ID: L1620128-01 Date Collected: 06/29/16 09:30

Client ID: HA16-7(OW)_62916 Date Received: 06/29/16

Sample Location: 60 EVERETT STREET REDEVELOPMENT Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	2.7		ug/l	1.0	--	1
1,2-Dichloroethene (total)	2.7		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON **Lab Number:** L1620128

Project Number: 43088-002 **Report Date:** 07/06/16

SAMPLE RESULTS

Lab ID: L1620128-01 Date Collected: 06/29/16 09:30

Client ID: HA16-7(OW)_62916 Date Received: 06/29/16

Sample Location: 60 EVERETT STREET REDEVELOPMENT Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON **Lab Number:** L1620128

Project Number: 43088-002 **Report Date:** 07/06/16

SAMPLE RESULTS

Lab ID: L1620128-02
Client ID: HA16-11(OW)_62916
Sample Location: 60 EVERETT STREET REDEVELOPMENT
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 07/05/16 09:21
Analyst: MM

Date Collected: 06/29/16 10:40
Date Received: 06/29/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	1.5		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	3.4		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	5.8		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	14		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON **Lab Number:** L1620128

Project Number: 43088-002 **Report Date:** 07/06/16

SAMPLE RESULTS

Lab ID: L1620128-02 Date Collected: 06/29/16 10:40

Client ID: HA16-11(OW)_62916 Date Received: 06/29/16

Sample Location: 60 EVERETT STREET REDEVELOPMENT Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	23		ug/l	1.0	--	1
1,2-Dichloroethene (total)	23		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON **Lab Number:** L1620128

Project Number: 43088-002 **Report Date:** 07/06/16

SAMPLE RESULTS

Lab ID: L1620128-02 Date Collected: 06/29/16 10:40

Client ID: HA16-11(OW)_62916 Date Received: 06/29/16

Sample Location: 60 EVERETT STREET REDEVELOPMENT Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

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

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON **Lab Number:** L1620128

Project Number: 43088-002 **Report Date:** 07/06/16

SAMPLE RESULTS

Lab ID: L1620128-03
Client ID: HA16-5(OW)_62916
Sample Location: 60 EVERETT STREET REDEVELOPMENT
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 07/05/16 09:52
Analyst: MM

Date Collected: 06/29/16 12:00
Date Received: 06/29/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON **Lab Number:** L1620128

Project Number: 43088-002 **Report Date:** 07/06/16

SAMPLE RESULTS

Lab ID: L1620128-03 Date Collected: 06/29/16 12:00

Client ID: HA16-5(OW)_62916 Date Received: 06/29/16

Sample Location: 60 EVERETT STREET REDEVELOPMENT Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON **Lab Number:** L1620128

Project Number: 43088-002 **Report Date:** 07/06/16

SAMPLE RESULTS

Lab ID: L1620128-03 Date Collected: 06/29/16 12:00

Client ID: HA16-5(OW)_62916 Date Received: 06/29/16

Sample Location: 60 EVERETT STREET REDEVELOPMENT Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	103		70-130

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON **Lab Number:** L1620128

Project Number: 43088-002 **Report Date:** 07/06/16

SAMPLE RESULTS

Lab ID: L1620128-04
Client ID: HA16-3(OW)_62916
Sample Location: 60 EVERETT STREET REDEVELOPMENT
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 07/05/16 10:23
Analyst: MM

Date Collected: 06/29/16 13:20
Date Received: 06/29/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	4.4		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	9.1		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	1.2		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON **Lab Number:** L1620128

Project Number: 43088-002 **Report Date:** 07/06/16

SAMPLE RESULTS

Lab ID: L1620128-04 Date Collected: 06/29/16 13:20

Client ID: HA16-3(OW)_62916 Date Received: 06/29/16

Sample Location: 60 EVERETT STREET REDEVELOPMENT Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON **Lab Number:** L1620128

Project Number: 43088-002 **Report Date:** 07/06/16

SAMPLE RESULTS

Lab ID: L1620128-04 Date Collected: 06/29/16 13:20

Client ID: HA16-3(OW)_62916 Date Received: 06/29/16

Sample Location: 60 EVERETT STREET REDEVELOPMENT Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON **Lab Number:** L1620128

Project Number: 43088-002 **Report Date:** 07/06/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 07/05/16 07:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG910237-5					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON **Lab Number:** L1620128

Project Number: 43088-002 **Report Date:** 07/06/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 07/05/16 07:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG910237-5					
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylene (Total)	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene (total)	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON **Lab Number:** L1620128

Project Number: 43088-002 **Report Date:** 07/06/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 07/05/16 07:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG910237-5					
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON

Project Number: 43088-002

Lab Number: L1620128

Report Date: 07/06/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG910237-3 WG910237-4								
Methylene chloride	120		96		70-130	**22**	Q	20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	95		98		70-130	3		20
1,2-Dichloropropane	100		99		70-130	1		20
Dibromochloromethane	97		97		70-130	0		20
1,1,2-Trichloroethane	100		98		70-130	2		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	110		100		70-130	10		20
Trichlorofluoromethane	100		97		70-130	3		20
1,2-Dichloroethane	100		97		70-130	3		20
1,1,1-Trichloroethane	100		100		70-130	0		20
Bromodichloromethane	100		99		70-130	1		20
trans-1,3-Dichloropropene	91		90		70-130	1		20
cis-1,3-Dichloropropene	97		97		70-130	0		20
1,1-Dichloropropene	100		99		70-130	1		20
Bromoform	78		92		70-130	16		20
1,1,2,2-Tetrachloroethane	98		100		70-130	2		20
Benzene	110		100		70-130	10		20
Toluene	110		100		70-130	10		20
Ethylbenzene	100		98		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON

Project Number: 43088-002

Lab Number: L1620128

Report Date: 07/06/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG910237-3 WG910237-4								
Chloromethane	100		95		70-130	5		20
Bromomethane	82		84		70-130	2		20
Vinyl chloride	100		95		70-130	5		20
Chloroethane	120		100		70-130	18		20
1,1-Dichloroethene	110		100		70-130	10		20
trans-1,2-Dichloroethene	110		100		70-130	10		20
Trichloroethene	110		100		70-130	10		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		110		70-130	10		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	100		100		70-130	0		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Dibromomethane	110		100		70-130	10		20
1,2,3-Trichloropropane	95		100		70-130	5		20
Styrene	95		90		70-130	5		20
Dichlorodifluoromethane	96		85		70-130	12		20
Acetone	100		100		70-130	0		20
Carbon disulfide	110		98		70-130	12		20
2-Butanone	110		100		70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON

Project Number: 43088-002

Lab Number: L1620128

Report Date: 07/06/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG910237-3 WG910237-4								
4-Methyl-2-pentanone	92		94		70-130	2		20
2-Hexanone	97		100		70-130	3		20
Bromochloromethane	110		100		70-130	10		20
Tetrahydrofuran	99		97		70-130	2		20
2,2-Dichloropropane	96		96		70-130	0		20
1,2-Dibromoethane	100		98		70-130	2		20
1,3-Dichloropropane	99		100		70-130	1		20
1,1,1,2-Tetrachloroethane	96		96		70-130	0		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	110		110		70-130	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	99		98		70-130	1		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	98		98		70-130	0		20
1,2-Dibromo-3-chloropropane	87		100		70-130	14		20
Hexachlorobutadiene	110		100		70-130	10		20
Isopropylbenzene	97		98		70-130	1		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	100		120		70-130	18		20
n-Propylbenzene	100		99		70-130	1		20
1,2,3-Trichlorobenzene	120		120		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON

Project Number: 43088-002

Lab Number: L1620128

Report Date: 07/06/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG910237-3 WG910237-4								
1,2,4-Trichlorobenzene	110		120		70-130	9		20
1,3,5-Trimethylbenzene	110		110		70-130	0		20
1,2,4-Trimethylbenzene	110		120		70-130	9		20
Ethyl ether	110		100		70-130	10		20
Isopropyl Ether	100		100		70-130	0		20
Ethyl-Tert-Butyl-Ether	99		97		70-130	2		20
Tertiary-Amyl Methyl Ether	98		95		70-130	3		20
1,4-Dioxane	122		126		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		97		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	92		97		70-130
Dibromofluoromethane	103		104		70-130

Project Name: 60 EVERETT ST BRIGHTON/ALLSTON
Project Number: 43088-002

Lab Number: L1620128
Report Date: 07/06/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1620128-01A	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1620128-01B	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1620128-01C	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1620128-02A	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1620128-02B	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1620128-02C	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1620128-03A	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1620128-03B	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1620128-03C	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1620128-04A	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1620128-04B	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)
L1620128-04C	Vial HCl preserved	A	N/A	3.2	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days

Project Name:	60 EVERETT ST BRIGHTON/ALLSTON	**Lab Number:**	L1620128
Project Number:	43088-002	**Report Date:**	07/06/16

GLOSSARY

Acronyms

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).
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.
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.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

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.

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.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
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

Report Format: Data Usability Report

Project Name:	60 EVERETT ST BRIGHTON/ALLSTON	**Lab Number:**	L1620128
Project Number:	43088-002	**Report Date:**	07/06/16

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	60 EVERETT ST BRIGHTON/ALLSTON	**Lab Number:**	L1620128
Project Number:	43088-002	**Report Date:**	07/06/16

REFERENCES

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 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.

Certification Information

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

Westborough Facility
EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene
EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene
EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.
EPA 1010A: NPW: Ignitability
EPA 6010C: NPW: Strontium; SCM: Strontium
EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation
EPA 9038: NPW: Sulfate
EPA 9050A: NPW: Specific Conductance
EPA 9056: NPW: Chloride, Nitrate, Sulfate
EPA 9065: NPW: Phenols
EPA 9251: NPW: Chloride
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam
EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane
SM 2540D: TSS
SM2540G: SCM: Percent Solids
EPA 1631E: SCM: Mercury
EPA 7474: SCM: Mercury
EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA 8270-SIM: NPW and SCM: Alkylated PAHs.
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, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.
Biological Tissue Matrix: ***8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:*** Lead***; 8270D:*** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

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

6/29/16 L1620128

Serial_No:07061613:13

HALEY ALDRICH

Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1402

CHAIN OF CUSTODY RECORD

Phone (617) 886-7400
Fax (617) 886-7600
Page 1 of 1

H&A FILE NO.	60 Everett street Redevelopment	LABORATORY	Alpha Analytical	DELIVERY DATE	6/29/2016
PROJECT NAME	60 Everett st Brighton/Allston, MA	ADDRESS	Westboro, MA	TURNAROUND TIME	Standard
H&A CONTACT	Lindsey Howard	CONTACT	Gina Hall	PROJECT MANAGER	Jesse Siegel

Sample No.	Date	Time	Depth	Type	VOCs	ABNs PAH only	MCP Metals	Pesticides PCBs	VPH Full Suite C-ranges only	EPH Full Suite C-ranges only	TPH (specify)	TCLP (specify)	Reactivity Ignitability Corrosivity				Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
HA16-7(OW)_62916	6/29/16	930	—	GW	X												3	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
HA16-11(OW)_62916		1040	—	GW	X												3	
HA16-5(OW)_62916		1200	—	GW	X												3	
HA16-3(OW)_62916		1320	—	GW	X												3	

COC edits by Gina Hall AAL 6/30/16---Project number 43088-002

12 pcs

Sampled and Relinquished by	Received by
Sign Alex Fleming	Sign Wayne Plummer
Print Alex Fleming	Print Wayne Plummer
Firm H+A	Firm Alpha
Date 6/29/16 Time 1630	Date 6/29/16 Time 1630
Relinquished by	**Received by**
Sign	Sign
Print Wayne Plummer	Print Richard Scott
Firm Alpha	Firm ATL
Date 6/29/16 Time 1815	Date 6/29/16 Time 1815
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID		SOLID	
X	VOA Vial		VOA Vial
	Amber Glass		Amber Glass
	Plastic Bottle		Clear Glass
F	Preservative		Preservative
	Volume		Volume

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Water/NaHSO4 (circle)

Sampling Comments

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate. Laboratory should (specify if applicable) _____ analyze

Required Reporting Limits and Data Quality Objectives

RC-S1	S1	GW1
RC-S2	S2	GW2
RC-GW1	S3	GW3
RC-GW2		

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory FEBRUARY 2016

6/29/16 L1620128

HALEY ALDRICH

Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1402

CHAIN OF CUSTODY RECORD

Phone (617) 886-7400
Fax (617) 886-7600

H&A FILE NO.	60 Everett street Redevelopment	LABORATORY	Alpha Analytical	DELIVERY DATE	6/29/2016
PROJECT NAME	60 Everett st Brighton/Allston, MA	ADDRESS	Westboro, MA	TURNAROUND TIME	Standard
H&A CONTACT	Lindsey Howard	CONTACT	Gina Hall	PROJECT MANAGER	Jesse Siegel

Sample No.	Date	Time	Depth	Type	VOCs	ABNs PAH only	MCP Metals	Pesticides PCBs	VPH Full Suite C-ranges only	EPH Full Suite C-ranges only	TPH (specify)	TCLP (specify)	Reactivity Ignitability Corrosivity				Number of Containers
HA16-7(OW)_62916	6/29/16	930	—	GW	X												3
HA16-11(OW)_62916		1040	—	GW	X												3
HA16-5(OW)_62916		1200	—	GW	X												3
HA16-3(OW)_62916		1320	—	GW	X												3

12 pcs

Analysis Requested

Comments (special instructions, precautions, additional method numbers, etc.)

Laboratory to use applicable DEP CAM methods, unless otherwise directed.

Sampled and Relinquished by	Received by
Sign Alex Fleming	Sign Wayne Plummer
Print Alex Fleming	Print Wayne Plummer
Firm H+A	Firm Alpha
Date 6/29/16 Time 1630	Date 6/29/16 Time 1630
Relinquished by	**Received by**
Sign	Sign
Print Wayne Plummer	Print Richard Scott
Firm Alpha	Firm ATL
Date 6/29/16 Time 1815	Date 6/29/16 Time 1815
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID		SOLID	
X	VOA Vial		VOA Vial
	Amber Glass		Amber Glass
	Plastic Bottle		Clear Glass
F	Preservative		Preservative
	Volume		Volume

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Water/NaHSO4 (circle)

Sampling Comments

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate. Laboratory should (specify if applicable) _____ analyze

Required Reporting Limits and Data Quality Objectives

RC-S1	S1	GW1
RC-S2	S2	GW2
RC-GW1	S3	GW3
RC-GW2		

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory

FEBRUARY 2016

Form 3009

Method Blank Summary
Form 4

Client	: Haley & Aldrich, Inc.	**Lab Number**	: L1620128
Project Name	: 60 EVERETT ST BRIGHTON/ALLSTON	**Project Number**	: 43088-002
Lab Sample ID	: WG910237-5	**Lab File ID**	: VQ160705A05
Instrument ID	: QUIMBY		
Matrix	: WATER	**Analysis Date**	: 07/05/16 07:15

Client Sample No.	Lab Sample ID	Analysis Date
WG910237-3LCS	WG910237-3	07/05/16 05:10
WG910237-4LCSD	WG910237-4	07/05/16 05:41
HA16-7(OW)_62916	L1620128-01	07/05/16 08:49
HA16-11(OW)_62916	L1620128-02	07/05/16 09:21
HA16-5(OW)_62916	L1620128-03	07/05/16 09:52
HA16-3(OW)_62916	L1620128-04	07/05/16 10:23

Continuing Calibration
Form 7

Client	: Haley & Aldrich, Inc.	**Lab Number**	: L1620128	
Project Name	: 60 EVERETT ST BRIGHTON/ALLSTON	**Project Number**	: 43088-002	
Instrument ID	: QUIMBY	**Calibration Date**	: 07/05/16 05:10	
Lab File ID	: VQ160705A01	**Init. Calib. Date(s)**	: 07/01/16	07/01/16
Sample No	: WG910237-2	**Init. Calib. Times**	: 04:56	08:35
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	0.05	0	20	89	0
Dichlorodifluoromethane	0.364	0.349	0.05	4.1	20	94	0
Chloromethane	0.72	0.743	0.05	-3.2	20	99	0
Vinyl chloride	0.686	0.706	0.05	-2.9	20	104	0
Bromomethane	0.291	0.24	0.05	17.5	20	77	0
Chloroethane	0.321	0.383	0.05	-19.3	20	115	0
Trichlorofluoromethane	0.548	0.564	0.05	-2.9	20	104	0
Ethyl ether	0.154	0.168	0.05	-9.1	20	97	0
1,1-Dichloroethene	0.33	0.367	0.05	-11.2	20	110	0
Carbon disulfide	1.152	1.222	0.05	-6.1	20	106	0
Methylene chloride	10	11.713	0.05	-17.1	20	113	0
Acetone	0.054	0.056	0.05	-3.7	20	98	0
trans-1,2-Dichloroethene	0.385	0.432	0.05	-12.2	20	110	0
Methyl tert-butyl ether	0.681	0.717	0.05	-5.3	20	99	0
Diisopropyl ether	1.6	1.648	0.05	-3	20	99	0
1,1-Dichloroethane	0.841	0.917	0.05	-9	20	101	0
Ethyl tert-butyl ether	1.147	1.137	0.05	0.9	20	98	0
cis-1,2-Dichloroethene	0.41	0.462	0.05	-12.7	20	104	0
2,2-Dichloropropane	0.552	0.531	0.05	3.8	20	106	0
Bromochloromethane	0.137	0.154	0.05	-12.4	20	99	0
Chloroform	0.715	0.776	0.05	-8.5	20	100	0
Carbon tetrachloride	0.472	0.45	0.05	4.7	20	107	0
Tetrahydrofuran	10	9.92	0.05	0.8	20	99	0
Dibromofluoromethane	0.19	0.196	0.05	-3.2	20	94	0
1,1,1-Trichloroethane	0.62	0.647	0.05	-4.4	20	108	0
2-Butanone	0.087	0.094	0.05	-8	20	99	0
1,1-Dichloropropene	0.592	0.626	0.05	-5.7	20	106	0
Benzene	1.805	2.002	0.05	-10.9	20	102	0
tert-Amyl methyl ether	0.821	0.806	0.05	1.8	20	96	0
1,2-Dichloroethane-d4	0.23	0.213	0.05	7.4	20	82	0
1,2-Dichloroethane	0.527	0.548	0.05	-4	20	97	0
Trichloroethene	0.438	0.481	0.05	-9.8	20	104	0
Dibromomethane	0.176	0.191	0.05	-8.5	20	97	0
1,2-Dichloropropane	0.489	0.497	0.05	-1.6	20	96	0
Bromodichloromethane	0.521	0.533	0.05	-2.3	20	98	0
1,4-Dioxane	0.00163	0.00198	0.05	-21.5	20	107	0
cis-1,3-Dichloropropene	0.603	0.585	0.05	3	20	94	0
Chlorobenzene-d5	1	1	0.05	0	20	95	0
Toluene-d8	1.398	1.415	0.05	-1.2	20	95	0
Toluene	1.627	1.761	0.05	-8.2	20	106	0
4-Methyl-2-pentanone	0.113	0.103	0.05	8.8	20	91	0
Tetrachloroethene	0.581	0.631	0.05	-8.6	20	107	0
trans-1,3-Dichloropropene	0.566	0.513	0.05	9.4	20	95	0
1,1,2-Trichloroethane	0.283	0.285	0.05	-0.7	20	95	0
Chlorodibromomethane	0.336	0.327	0.05	2.7	20	99	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: Haley & Aldrich, Inc.	**Lab Number**	: L1620128	
Project Name	: 60 EVERETT ST BRIGHTON/ALLSTON	**Project Number**	: 43088-002	
Instrument ID	: QUIMBY	**Calibration Date**	: 07/05/16 05:10	
Lab File ID	: VQ160705A01	**Init. Calib. Date(s)**	: 07/01/16	07/01/16
Sample No	: WG910237-2	**Init. Calib. Times**	: 04:56	08:35
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,3-Dichloropropane	0.628	0.623	0.05	0.8	20	94	0
1,2-Dibromoethane	0.314	0.313	0.05	0.3	20	96	0
2-Hexanone	0.199	0.193	0.05	3	20	97	0
Chlorobenzene	1.616	1.725	0.05	-6.7	20	104	0
Ethylbenzene	2.909	2.983	0.05	-2.5	20	107	0
1,1,1,2-Tetrachloroethane	0.484	0.464	0.05	4.1	20	99	0
p/m Xylene	0.863	0.874	0.05	-1.3	20	108	0
o Xylene	0.829	0.838	0.05	-1.1	20	105	0
Styrene	1.409	1.372	0.05	2.6	20	105	0
1,4-Dichlorobenzene-d4	1	1	0.05	0	20	98	0
Bromoform	0.576	0.447	0.05	22.4*	20	95	0
Isopropylbenzene	7.033	6.836	0.05	2.8	20	110	0
4-Bromofluorobenzene	1.294	1.186	0.05	8.3	20	96	0
Bromobenzene	1.566	1.566	0.05	0	20	101	0
n-Propylbenzene	7.566	7.567	0.05	-0	20	109	0
1,1,2,2-Tetrachloroethane	10	9.807	0.05	1.9	20	96	0
2-Chlorotoluene	5.412	5.49	0.05	-1.4	20	108	0
1,3,5-Trimethylbenzene	4.82	5.378	0.05	-11.6	20	104	0
1,2,3-Trichloropropane	10	9.464	0.05	5.4	20	96	0
4-Chlorotoluene	4.722	4.63	0.05	1.9	20	107	0
tert-Butylbenzene	3.975	3.94	0.05	0.9	20	108	0
1,2,4-Trimethylbenzene	4.766	5.398	0.05	-13.3	20	104	0
sec-Butylbenzene	6.056	6.141	0.05	-1.4	20	112	0
p-Isopropyltoluene	4.804	5.292	0.05	-10.2	20	109	0
1,3-Dichlorobenzene	2.719	2.853	0.05	-4.9	20	106	0
1,4-Dichlorobenzene	2.57	2.673	0.05	-4	20	105	0
n-Butylbenzene	5.597	6.237	0.05	-11.4	20	108	0
1,2-Dichlorobenzene	2.426	2.477	0.05	-2.1	20	102	0
1,2-Dibromo-3-chloropropan	10	8.684	0.05	13.2	20	94	0
Hexachlorobutadiene	0.537	0.571	0.05	-6.3	20	107	0
1,2,4-Trichlorobenzene	1.23	1.363	0.05	-10.8	20	100	0
Naphthalene	2.075	2.193	0.05	-5.7	20	97	0
1,2,3-Trichlorobenzene	0.963	1.115	0.05	-15.8	20	103	0

* Value outside of QC limits.

ANALYTICAL REPORT

Lab Number:	L2127467
Client:	Haley & Aldrich, Inc. 465 Medford Street, Suite 2200 Charlestown, MA 02129-1400
ATTN:	Jesse Siegel
Phone:	(617) 886-7400
Project Name:	ALLSTON YARDS-BUILDING A
Project Number:	134110-007 Task 03
Report Date:	05/28/21

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

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

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03

Lab Number: L2127467
Report Date: 05/28/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2127467-01	HA16-11_05242021	WATER	ALLSTON, MA	05/24/21 14:55	05/24/21
L2127467-02	HA21-AY-RW	WATER	ALLSTON, MA	05/24/21 11:20	05/24/21

Project Name:	ALLSTON YARDS-BUILDING A	**Lab Number:**	L2127467
Project Number:	134110-007 Task 03	**Report Date:**	05/28/21

Case Narrative

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

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

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

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

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

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

Project Name:	ALLSTON YARDS-BUILDING A	**Lab Number:**	L2127467
Project Number:	134110-007 Task 03	**Report Date:**	05/28/21

Case Narrative (continued)

Volatile Organics by SIM

L2127467-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

The WG1503271-4 Method Blank, associated with L2127467-01D, has a concentration above the reporting limit for 1,4-Dioxane. Since the sample was non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

Nitrogen, Ammonia

L2127467-02: The sample has an elevated detection limit due to the dilution required by the sample matrix.

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

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 05/28/21

ORGANICS

VOLATILES

Project Name: ALLSTON YARDS-BUILDING A
Lab Number: L2127467
Project Number: 134110-007 Task 03
Report Date: 05/28/21

SAMPLE RESULTS

Lab ID: L2127467-01
Client ID: HA16-11_05242021
Sample Location: ALLSTON, MA

Date Collected: 05/24/21 14:55
Date Received: 05/24/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 05/25/21 18:15
Analyst: AMM

Extraction Method: EPA 504.1
Extraction Date: 05/25/21 16:34

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

Project Name: ALLSTON YARDS-BUILDING A **Lab Number:** L2127467

Project Number: 134110-007 Task 03 **Report Date:** 05/28/21

SAMPLE RESULTS

Lab ID: L2127467-01 D
Client ID: HA16-11_05242021
Sample Location: ALLSTON, MA

Date Collected: 05/24/21 14:55
Date Received: 05/24/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/25/21 07:39
Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	2
1,1-Dichloroethane	ND		ug/l	3.0	--	2
Carbon tetrachloride	ND		ug/l	2.0	--	2
1,1,2-Trichloroethane	ND		ug/l	3.0	--	2
Tetrachloroethene	ND		ug/l	2.0	--	2
1,2-Dichloroethane	ND		ug/l	3.0	--	2
1,1,1-Trichloroethane	ND		ug/l	4.0	--	2
Benzene	ND		ug/l	2.0	--	2
Toluene	ND		ug/l	2.0	--	2
Ethylbenzene	ND		ug/l	2.0	--	2
Vinyl chloride	ND		ug/l	2.0	--	2
1,1-Dichloroethene	ND		ug/l	2.0	--	2
cis-1,2-Dichloroethene	17		ug/l	2.0	--	2
Trichloroethene	210		ug/l	2.0	--	2
1,2-Dichlorobenzene	ND		ug/l	10	--	2
1,3-Dichlorobenzene	ND		ug/l	10	--	2
1,4-Dichlorobenzene	ND		ug/l	10	--	2
p/m-Xylene	ND		ug/l	4.0	--	2
o-xylene	ND		ug/l	2.0	--	2
Xylenes, Total	ND		ug/l	2.0	--	2
Acetone	ND		ug/l	20	--	2
Methyl tert butyl ether	ND		ug/l	20	--	2
Tert-Butyl Alcohol	ND		ug/l	200	--	2
Tertiary-Amyl Methyl Ether	ND		ug/l	40	--	2

Project Name: ALLSTON YARDS-BUILDING A **Lab Number:** L2127467

Project Number: 134110-007 Task 03 **Report Date:** 05/28/21

SAMPLE RESULTS

Lab ID: L2127467-01 D
Client ID: HA16-11_05242021
Sample Location: ALLSTON, MA

Date Collected: 05/24/21 14:55
Date Received: 05/24/21
Field Prep: Refer to COC

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	109		60-140
Fluorobenzene	88		60-140
4-Bromofluorobenzene	96		60-140

Project Name: ALLSTON YARDS-BUILDING A **Lab Number:** L2127467

Project Number: 134110-007 Task 03 **Report Date:** 05/28/21

SAMPLE RESULTS

Lab ID: L2127467-01 D
Client ID: HA16-11_05242021
Sample Location: ALLSTON, MA

Date Collected: 05/24/21 14:55
Date Received: 05/24/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1-SIM
Analytical Date: 05/25/21 07:39
Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	10	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Fluorobenzene	91		60-140
4-Bromofluorobenzene	106		60-140

Project Name: ALLSTON YARDS-BUILDING A **Lab Number:** L2127467

Project Number: 134110-007 Task 03 **Report Date:** 05/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 05/25/21 04:37
Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1502829-8					
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: ALLSTON YARDS-BUILDING A **Lab Number:** L2127467

Project Number: 134110-007 Task 03 **Report Date:** 05/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 05/25/21 04:37
Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1502829-8					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	110		60-140
Fluorobenzene	89		60-140
4-Bromofluorobenzene	94		60-140

Project Name: ALLSTON YARDS-BUILDING A **Lab Number:** L2127467

Project Number: 134110-007 Task 03 **Report Date:** 05/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1-SIM
Analytical Date: 05/25/21 04:37
Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1503271-4					
1,4-Dioxane	5.8		ug/l	5.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Fluorobenzene	91		60-140
4-Bromofluorobenzene	104		60-140

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03
Lab Number: L2127467
Report Date: 05/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 14,504.1
Analytical Date: 05/25/21 17:26
Analyst: AMM

Extraction Method: EPA 504.1
Extraction Date: 05/25/21 16:34

Parameter	Result	Qualifier	Units	RL	MDL	
Microextractables by GC - Westborough Lab for sample(s): 01 Batch: WG1503496-1						
1,2-Dibromoethane	ND		ug/l	0.010	--	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLSTON YARDS-BUILDING A

Project Number: 134110-007 Task 03

Lab Number: L2127467

Report Date: 05/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1502829-7								
Methylene chloride	85		-		60-140	-		28
1,1-Dichloroethane	85		-		50-150	-		49
Carbon tetrachloride	100		-		70-130	-		41
1,1,2-Trichloroethane	115		-		70-130	-		45
Tetrachloroethene	125		-		70-130	-		39
1,2-Dichloroethane	90		-		70-130	-		49
1,1,1-Trichloroethane	90		-		70-130	-		36
Benzene	90		-		65-135	-		61
Toluene	115		-		70-130	-		41
Ethylbenzene	105		-		60-140	-		63
Vinyl chloride	70		-		5-195	-		66
1,1-Dichloroethene	85		-		50-150	-		32
cis-1,2-Dichloroethene	100		-		60-140	-		30
Trichloroethene	90		-		65-135	-		48
1,2-Dichlorobenzene	115		-		65-135	-		57
1,3-Dichlorobenzene	110		-		70-130	-		43
1,4-Dichlorobenzene	110		-		65-135	-		57
p/m-Xylene	102		-		60-140	-		30
o-xylene	105		-		60-140	-		30
Acetone	116		-		40-160	-		30
Methyl tert butyl ether	80		-		60-140	-		30
Tert-Butyl Alcohol	130		-		60-140	-		30
Tertiary-Amyl Methyl Ether	75		-		60-140	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03

Lab Number: L2127467
Report Date: 05/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1502829-7								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	110				60-140
Fluorobenzene	88				60-140
4-Bromofluorobenzene	93				60-140

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03

Lab Number: L2127467
Report Date: 05/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1503271-3								
1,4-Dioxane	140		-		60-140	-		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Fluorobenzene	92				60-140
4-Bromofluorobenzene	103				60-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLSTON YARDS-BUILDING A

Project Number: 134110-007 Task 03

Lab Number: L2127467

Report Date: 05/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Microextractables by GC - Westborough Lab	Associated sample(s): 01		Batch: WG1503496-2						
1,2-Dibromoethane	110		-		80-120	-			B

Matrix Spike Analysis

Batch Quality Control

Project Name: ALLSTON YARDS-BUILDING A

Project Number: 134110-007 Task 03

Lab Number: L2127467

Report Date: 05/28/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*	*Column*
Microextractables by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1503496-3 QC Sample: L2126018-01 Client ID: MS Sample													
1,2-Dibromoethane	ND	0.249	0.259	104		-	-		80-120	-		20	B
1,2-Dibromo-3-chloropropane	ND	0.249	0.291	117		-	-		80-120	-		20	B
1,2,3-Trichloropropane	ND	0.249	0.311	**125**	Q	-	-		80-120	-		20	B

SEMIVOLATILES

Project Name: ALLSTON YARDS-BUILDING A
Lab Number: L2127467
Project Number: 134110-007 Task 03
Report Date: 05/28/21

SAMPLE RESULTS

Lab ID: L2127467-01
Client ID: HA16-11_05242021
Sample Location: ALLSTON, MA

Date Collected: 05/24/21 14:55
Date Received: 05/24/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 129,625.1
Analytical Date: 05/27/21 14:47
Analyst: SZ

Extraction Method: EPA 625.1
Extraction Date: 05/27/21 01:43

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	60		42-122
2-Fluorobiphenyl	71		46-121
4-Terphenyl-d14	79		47-138

Project Name: ALLSTON YARDS-BUILDING A **Lab Number:** L2127467

Project Number: 134110-007 Task 03 **Report Date:** 05/28/21

SAMPLE RESULTS

Lab ID: L2127467-01
Client ID: HA16-11_05242021
Sample Location: ALLSTON, MA

Date Collected: 05/24/21 14:55
Date Received: 05/24/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 129,625.1-SIM
Analytical Date: 05/27/21 18:05
Analyst: DV

Extraction Method: EPA 625.1
Extraction Date: 05/27/21 01:47

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	41		25-87
Phenol-d6	31		16-65
Nitrobenzene-d5	62		42-122
2-Fluorobiphenyl	64		46-121
2,4,6-Tribromophenol	71		45-128
4-Terphenyl-d14	65		47-138

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03
Lab Number: L2127467
Report Date: 05/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1
Analytical Date: 05/27/21 14:02
Analyst: SZ

Extraction Method: EPA 625.1
Extraction Date: 05/27/21 01:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1504225-1					
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	71		42-122
2-Fluorobiphenyl	79		46-121
4-Terphenyl-d14	86		47-138

Project Name: ALLSTON YARDS-BUILDING A **Lab Number:** L2127467

Project Number: 134110-007 Task 03 **Report Date:** 05/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1-SIM
Analytical Date: 05/27/21 17:49
Analyst: DV

Extraction Method: EPA 625.1
Extraction Date: 05/27/21 01:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1504226-1					
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	49		25-87
Phenol-d6	35		16-65
Nitrobenzene-d5	73		42-122
2-Fluorobiphenyl	72		46-121
2,4,6-Tribromophenol	74		45-128
4-Terphenyl-d14	77		47-138

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLSTON YARDS-BUILDING A

Project Number: 134110-007 Task 03

Lab Number: L2127467

Report Date: 05/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1504225-3								
Bis(2-ethylhexyl)phthalate	99		-		29-137	-		82
Butyl benzyl phthalate	100		-		1-140	-		60
Di-n-butylphthalate	94		-		8-120	-		47
Di-n-octylphthalate	99		-		19-132	-		69
Diethyl phthalate	92		-		1-120	-		100
Dimethyl phthalate	99		-		1-120	-		183

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	79				42-122
2-Fluorobiphenyl	88				46-121
4-Terphenyl-d14	97				47-138

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03

Lab Number: L2127467
Report Date: 05/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1504226-3								
Acenaphthene	66		-		60-132	-		30
Fluoranthene	75		-		43-121	-		30
Naphthalene	63		-		36-120	-		30
Benzo(a)anthracene	74		-		42-133	-		30
Benzo(a)pyrene	78		-		32-148	-		30
Benzo(b)fluoranthene	74		-		42-140	-		30
Benzo(k)fluoranthene	80		-		25-146	-		30
Chrysene	70		-		44-140	-		30
Acenaphthylene	75		-		54-126	-		30
Anthracene	73		-		43-120	-		30
Benzo(ghi)perylene	72		-		1-195	-		30
Fluorene	72		-		70-120	-		30
Phenanthrene	69		-		65-120	-		30
Dibenzo(a,h)anthracene	73		-		1-200	-		30
Indeno(1,2,3-cd)pyrene	76		-		1-151	-		30
Pyrene	74		-		70-120	-		30
Pentachlorophenol	56		-		38-152	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03

Lab Number: L2127467
Report Date: 05/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1504226-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	44				25-87
Phenol-d6	32				16-65
Nitrobenzene-d5	67				42-122
2-Fluorobiphenyl	67				46-121
2,4,6-Tribromophenol	70				45-128
4-Terphenyl-d14	71				47-138

PCBS

Project Name: ALLSTON YARDS-BUILDING A
Lab Number: L2127467
Project Number: 134110-007 Task 03
Report Date: 05/28/21

SAMPLE RESULTS

Lab ID: L2127467-01
Client ID: HA16-11_05242021
Sample Location: ALLSTON, MA

Date Collected: 05/24/21 14:55
Date Received: 05/24/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 127,608.3
Analytical Date: 05/27/21 10:16
Analyst: JAW

Extraction Method: EPA 608.3
Extraction Date: 05/27/21 00:22
Cleanup Method: EPA 3665A
Cleanup Date: 05/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 05/27/21

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		37-123	B
Decachlorobiphenyl	94		38-114	B
2,4,5,6-Tetrachloro-m-xylene	78		37-123	A
Decachlorobiphenyl	78		38-114	A

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03
Lab Number: L2127467
Report Date: 05/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 127,608.3
Analytical Date: 05/27/21 09:26
Analyst: JAW

Extraction Method: EPA 608.3
Extraction Date: 05/27/21 00:22
Cleanup Method: EPA 3665A
Cleanup Date: 05/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 05/27/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1504221-1						
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	103		37-123	B
Decachlorobiphenyl	106		38-114	B
2,4,5,6-Tetrachloro-m-xylene	108		37-123	A
Decachlorobiphenyl	99		38-114	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLSTON YARDS-BUILDING A

Project Number: 134110-007 Task 03

Lab Number: L2127467

Report Date: 05/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1504221-2									
Aroclor 1016	88		-		50-140	-		36	A
Aroclor 1260	85		-		8-140	-		38	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96				37-123	B
Decachlorobiphenyl	101				38-114	B
2,4,5,6-Tetrachloro-m-xylene	92				37-123	A
Decachlorobiphenyl	89				38-114	A

METALS

Project Name: ALLSTON YARDS-BUILDING A
Lab Number: L2127467
Project Number: 134110-007 Task 03
Report Date: 05/28/21

SAMPLE RESULTS

Lab ID: L2127467-01
Client ID: HA16-11_05242021
Sample Location: ALLSTON, MA
Date Collected: 05/24/21 14:55
Date Received: 05/24/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.00400	--	1	05/26/21 04:22	05/26/21 18:37	EPA 3005A	3,200.8	BM
Arsenic, Total	ND		mg/l	0.00100	--	1	05/26/21 04:22	05/26/21 18:37	EPA 3005A	3,200.8	BM
Cadmium, Total	ND		mg/l	0.00020	--	1	05/26/21 04:22	05/26/21 18:37	EPA 3005A	3,200.8	BM
Chromium, Total	ND		mg/l	0.00100	--	1	05/26/21 04:22	05/26/21 18:37	EPA 3005A	3,200.8	BM
Copper, Total	0.00410		mg/l	0.00100	--	1	05/26/21 04:22	05/26/21 18:37	EPA 3005A	3,200.8	BM
Iron, Total	0.492		mg/l	0.050	--	1	05/26/21 04:22	05/26/21 17:16	EPA 3005A	19,200.7	SV
Lead, Total	0.00109		mg/l	0.00100	--	1	05/26/21 04:22	05/26/21 18:37	EPA 3005A	3,200.8	BM
Mercury, Total	ND		mg/l	0.00020	--	1	05/26/21 06:55	05/26/21 14:46	EPA 245.1	3,245.1	OU
Nickel, Total	0.00412		mg/l	0.00200	--	1	05/26/21 04:22	05/26/21 18:37	EPA 3005A	3,200.8	BM
Selenium, Total	ND		mg/l	0.00500	--	1	05/26/21 04:22	05/26/21 18:37	EPA 3005A	3,200.8	BM
Silver, Total	ND		mg/l	0.00040	--	1	05/26/21 04:22	05/26/21 18:37	EPA 3005A	3,200.8	BM
Zinc, Total	ND		mg/l	0.01000	--	1	05/26/21 04:22	05/26/21 18:37	EPA 3005A	3,200.8	BM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	427		mg/l	0.660	NA	1	05/26/21 04:22	05/26/21 17:16	EPA 3005A	19,200.7	SV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	--	1		05/26/21 18:37	NA	107,-	

Project Name: ALLSTON YARDS-BUILDING A
Lab Number: L2127467
Project Number: 134110-007 Task 03
Report Date: 05/28/21

SAMPLE RESULTS

Lab ID: L2127467-02
Client ID: HA21-AY-RW
Sample Location: ALLSTON, MA
Date Collected: 05/24/21 11:20
Date Received: 05/24/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.00400	--	1	05/26/21 04:22	05/26/21 18:42	EPA 3005A	3,200.8	BM
Arsenic, Total	ND		mg/l	0.00100	--	1	05/26/21 04:22	05/26/21 18:42	EPA 3005A	3,200.8	BM
Cadmium, Total	ND		mg/l	0.00020	--	1	05/26/21 04:22	05/26/21 18:42	EPA 3005A	3,200.8	BM
Chromium, Total	ND		mg/l	0.00100	--	1	05/26/21 04:22	05/26/21 18:42	EPA 3005A	3,200.8	BM
Copper, Total	0.00192		mg/l	0.00100	--	1	05/26/21 04:22	05/26/21 18:42	EPA 3005A	3,200.8	BM
Iron, Total	0.553		mg/l	0.050	--	1	05/26/21 04:22	05/26/21 17:21	EPA 3005A	19,200.7	SV
Lead, Total	0.00134		mg/l	0.00100	--	1	05/26/21 04:22	05/26/21 18:42	EPA 3005A	3,200.8	BM
Mercury, Total	ND		mg/l	0.00020	--	1	05/26/21 06:55	05/26/21 14:33	EPA 245.1	3,245.1	OU
Nickel, Total	ND		mg/l	0.00200	--	1	05/26/21 04:22	05/26/21 18:42	EPA 3005A	3,200.8	BM
Selenium, Total	ND		mg/l	0.00500	--	1	05/26/21 04:22	05/26/21 18:42	EPA 3005A	3,200.8	BM
Silver, Total	ND		mg/l	0.00040	--	1	05/26/21 04:22	05/26/21 18:42	EPA 3005A	3,200.8	BM
Zinc, Total	ND		mg/l	0.01000	--	1	05/26/21 04:22	05/26/21 18:42	EPA 3005A	3,200.8	BM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	403		mg/l	0.660	NA	1	05/26/21 04:22	05/27/21 09:00	EPA 3005A	19,200.7	GD

Project Name: ALLSTON YARDS-BUILDING A **Lab Number:** L2127467

Project Number: 134110-007 Task 03 **Report Date:** 05/28/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1503432-1										
Antimony, Total	ND		mg/l	0.00400	--	1	05/26/21 04:22	05/26/21 18:16	3,200.8	BM
Arsenic, Total	ND		mg/l	0.00100	--	1	05/26/21 04:22	05/26/21 18:16	3,200.8	BM
Cadmium, Total	ND		mg/l	0.00020	--	1	05/26/21 04:22	05/26/21 18:16	3,200.8	BM
Chromium, Total	ND		mg/l	0.00100	--	1	05/26/21 04:22	05/26/21 18:16	3,200.8	BM
Copper, Total	ND		mg/l	0.00100	--	1	05/26/21 04:22	05/26/21 18:16	3,200.8	BM
Lead, Total	ND		mg/l	0.00100	--	1	05/26/21 04:22	05/26/21 18:16	3,200.8	BM
Nickel, Total	ND		mg/l	0.00200	--	1	05/26/21 04:22	05/26/21 18:16	3,200.8	BM
Selenium, Total	ND		mg/l	0.00500	--	1	05/26/21 04:22	05/26/21 18:16	3,200.8	BM
Silver, Total	ND		mg/l	0.00040	--	1	05/26/21 04:22	05/26/21 18:16	3,200.8	BM
Zinc, Total	ND		mg/l	0.01000	--	1	05/26/21 04:22	05/26/21 18:16	3,200.8	BM

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): 01-02 Batch: WG1503716-1										
Iron, Total	ND		mg/l	0.050	--	1	05/26/21 04:22	05/26/21 16:04	19,200.7	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): 01-02 Batch: WG1503716-1										
Hardness	ND		mg/l	0.660	NA	1	05/26/21 04:22	05/27/21 08:50	19,200.7	GD

Prep Information

Digestion Method: EPA 3005A

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03
Lab Number: L2127467
Report Date: 05/28/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1503717-1										
Mercury, Total	ND		mg/l	0.00020	--	1	05/26/21 06:55	05/26/21 14:16	3,245.1	OU

Prep Information

Digestion Method: EPA 245.1

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLSTON YARDS-BUILDING A

Project Number: 134110-007 Task 03

Lab Number: L2127467

Report Date: 05/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1503432-2								
Antimony, Total	86		-		85-115	-		
Arsenic, Total	102		-		85-115	-		
Cadmium, Total	105		-		85-115	-		
Chromium, Total	104		-		85-115	-		
Copper, Total	105		-		85-115	-		
Lead, Total	104		-		85-115	-		
Nickel, Total	100		-		85-115	-		
Selenium, Total	101		-		85-115	-		
Silver, Total	105		-		85-115	-		
Zinc, Total	109		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1503716-2								
Iron, Total	110		-		85-115	-		
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-02 Batch: WG1503716-2								
Hardness	100		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1503717-2								
Mercury, Total	97		-		85-115	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03

Lab Number: L2127467
Report Date: 05/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1503432-3 QC Sample: L2127594-01 Client ID: MS Sample												
Antimony, Total	ND	0.5	0.3969	79		-	-		70-130	-		20
Arsenic, Total	ND	0.12	0.1259	105		-	-		70-130	-		20
Cadmium, Total	ND	0.051	0.05348	105		-	-		70-130	-		20
Chromium, Total	ND	0.2	0.2043	102		-	-		70-130	-		20
Copper, Total	0.00296	0.25	0.2656	105		-	-		70-130	-		20
Lead, Total	ND	0.51	0.5341	105		-	-		70-130	-		20
Nickel, Total	0.00399	0.5	0.4953	98		-	-		70-130	-		20
Selenium, Total	ND	0.12	0.1283	107		-	-		70-130	-		20
Silver, Total	ND	0.05	0.05236	105		-	-		70-130	-		20
Zinc, Total	0.1010	0.5	0.6481	109		-	-		70-130	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1503716-3 QC Sample: L2127594-01 Client ID: MS Sample												
Iron, Total	ND	1	1.07	107		-	-		75-125	-		20
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1503716-3 QC Sample: L2127594-01 Client ID: MS Sample												
Hardness	220	66.2	279	89		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1503717-3 QC Sample: L2127467-02 Client ID: HA21-AY-RW												
Mercury, Total	ND	0.005	0.00487	97		-	-		70-130	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03

Lab Number: L2127467
Report Date: 05/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1503432-4 QC Sample: L2127594-01 Client ID: DUP Sample						
Antimony, Total	ND	0.00523	mg/l	NC		20
Arsenic, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	ND	ND	mg/l	NC		20
Copper, Total	0.00296	0.00281	mg/l	5		20
Lead, Total	ND	ND	mg/l	NC		20
Nickel, Total	0.00399	0.00405	mg/l	2		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.1010	0.1005	mg/l	0		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1503716-4 QC Sample: L2127594-01 Client ID: DUP Sample						
Iron, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1503717-4 QC Sample: L2127467-02 Client ID: HA21-AY-RW						
Mercury, Total	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03
Lab Number: L2127467
Report Date: 05/28/21

SAMPLE RESULTS

Lab ID: L2127467-01
Client ID: HA16-11_05242021
Sample Location: ALLSTON, MA
Sample Depth:
Matrix: Water
Date Collected: 05/24/21 14:55
Date Received: 05/24/21
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
SALINITY	ND		SU	2.0	--	1	-	05/25/21 18:52	121,2520B	AS
Solids, Total Suspended	6.2		mg/l	5.0	NA	1	-	05/25/21 09:10	121,2540D	AC
Cyanide, Total	ND		mg/l	0.005	--	1	05/25/21 10:55	05/25/21 13:45	121,4500CN-CE	CR
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	05/25/21 05:33	121,4500CL-D	AW
pH (H)	6.6		SU	-	NA	1	-	05/28/21 06:10	121,4500H+-B	KA
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	05/25/21 17:00	05/25/21 21:56	121,4500NH3-BH	AT
TPH, SGT-HEM	ND		mg/l	4.40	--	1.1	05/25/21 18:30	05/25/21 19:30	74,1664A	TL
Phenolics, Total	ND		mg/l	0.030	--	1	05/26/21 07:04	05/26/21 12:16	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	--	1	05/25/21 04:50	05/25/21 05:31	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Chloride	987.		mg/l	25.0	--	50	-	05/25/21 21:15	44,300.0	AT

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03
Lab Number: L2127467
Report Date: 05/28/21

SAMPLE RESULTS

Lab ID: L2127467-02
Client ID: HA21-AY-RW
Sample Location: ALLSTON, MA
Sample Depth:
Matrix: Water

Date Collected: 05/24/21 11:20
Date Received: 05/24/21
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	7.0		SU	-	NA	1	-	05/26/21 03:18	121,4500H+-B	KA
Nitrogen, Ammonia	ND		mg/l	0.150	--	2	05/25/21 17:00	05/25/21 21:57	121,4500NH3-BH	AT

Project Name: ALLSTON YARDS-BUILDING A **Lab Number:** L2127467

Project Number: 134110-007 Task 03 **Report Date:** 05/28/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1503163-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	05/25/21 04:50	05/25/21 05:29	1,7196A	KA
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1503165-1										
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	05/25/21 05:33	121,4500CL-D	AW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1503262-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	05/25/21 09:10	121,2540D	AC
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1503298-1										
Cyanide, Total	ND		mg/l	0.005	--	1	05/25/21 10:55	05/25/21 13:23	121,4500CN-CE	CR
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1503485-1										
TPH, SGT-HEM	ND		mg/l	4.00	--	1	05/25/21 18:30	05/25/21 19:30	74,1664A	TL
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1503570-1										
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	05/25/21 17:00	05/25/21 21:50	121,4500NH3-BH	AT
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG1503669-1										
Chloride	ND		mg/l	0.500	--	1	-	05/25/21 17:05	44,300.0	AT
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1503784-1										
Phenolics, Total	ND		mg/l	0.030	--	1	05/26/21 07:04	05/26/21 12:13	4,420.1	KP

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLSTON YARDS-BUILDING A

Project Number: 134110-007 Task 03

Lab Number: L2127467

Report Date: 05/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1503163-2								
Chromium, Hexavalent	101		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1503165-2								
Chlorine, Total Residual	92		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1503262-2								
Solids, Total Suspended	82		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1503298-2								
Cyanide, Total	97		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1503485-2								
TPH	74		-		64-132	-		34
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1503570-2								
Nitrogen, Ammonia	95		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1503598-1								
SALINITY	99		-			-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLSTON YARDS-BUILDING A

Project Number: 134110-007 Task 03

Lab Number: L2127467

Report Date: 05/28/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG1503669-2					
Chloride	100	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1503705-1					
pH	100	-	99-101	-	5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1503784-2					
Phenolics, Total	117	-	70-130	-	
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1504812-1					
pH	100	-	99-101	-	5

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03

Lab Number: L2127467
Report Date: 05/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1503163-4 QC Sample: L2127467-01 Client ID: HA16-11_05242021												
Chromium, Hexavalent	ND	0.1	0.095	95		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1503165-4 QC Sample: L2127415-02 Client ID: MS Sample												
Chlorine, Total Residual	ND	0.25	0.23	92		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1503298-4 QC Sample: L2127528-02 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.199	100		-	-		90-110	-		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1503485-4 QC Sample: L2124668-02 Client ID: MS Sample												
TPH	ND	20.4	13.7	67		-	-		64-132	-		34
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1503570-4 QC Sample: L2127373-06 Client ID: MS Sample												
Nitrogen, Ammonia	ND	4	3.24	81		-	-		80-120	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1503669-3 QC Sample: L2127415-01 Client ID: MS Sample												
Chloride	36.6	4	39.9	**85**	Q	-	-		90-110	-		18
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1503784-4 QC Sample: L2127467-01 Client ID: HA16-11_05242021												
Phenolics, Total	ND	0.4	0.38	96		-	-		70-130	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03

Lab Number: L2127467
Report Date: 05/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1503163-3 QC Sample: L2127467-01 Client ID: HA16-11_05242021						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1503165-3 QC Sample: L2127415-01 Client ID: DUP Sample						
Chlorine, Total Residual	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1503262-3 QC Sample: L2126778-01 Client ID: DUP Sample						
Solids, Total Suspended	29	29	mg/l	0		29
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1503298-3 QC Sample: L2127528-02 Client ID: DUP Sample						
Cyanide, Total	ND	ND	mg/l	NC		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1503485-3 QC Sample: L2124652-01 Client ID: DUP Sample						
TPH	ND	ND	mg/l	NC		34
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1503570-3 QC Sample: L2127373-06 Client ID: DUP Sample						
Nitrogen, Ammonia	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1503598-2 QC Sample: L2127586-01 Client ID: DUP Sample						
SALINITY	ND	ND	SU	NC		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1503669-4 QC Sample: L2127415-01 Client ID: DUP Sample						
Chloride	36.6	37.4	mg/l	2		18
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1503705-2 QC Sample: L2126836-01 Client ID: DUP Sample						
pH	4.6	4.9	SU	**6**	Q	5

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03

Lab Number: L2127467
Report Date: 05/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1503784-3 QC Sample: L2127467-01 Client ID: HA16-11_05242021					
Phenolics, Total	ND	ND	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1504812-2 QC Sample: L2127467-01 Client ID: HA16-11_05242021					
pH (H)	6.6	6.5	SU	2	5

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03

Lab Number: L2127467
Report Date: 05/28/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2127467-01A	Vial Na2S2O3 preserved	A	NA		3.5	Y	Absent		624.1-RGP(7)
L2127467-01B	Vial Na2S2O3 preserved	A	NA		3.5	Y	Absent		624.1-RGP(7)
L2127467-01C	Vial Na2S2O3 preserved	A	NA		3.5	Y	Absent		624.1-RGP(7)
L2127467-01D	Vial Na2S2O3 preserved	A	NA		3.5	Y	Absent		624.1-SIM-RGP(7)
L2127467-01E	Vial Na2S2O3 preserved	A	NA		3.5	Y	Absent		624.1-SIM-RGP(7)
L2127467-01F	Vial Na2S2O3 preserved	A	NA		3.5	Y	Absent		624.1-SIM-RGP(7)
L2127467-01G	Vial Na2S2O3 preserved	A	NA		3.5	Y	Absent		504(14)
L2127467-01H	Vial Na2S2O3 preserved	A	NA		3.5	Y	Absent		504(14)
L2127467-01I	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		SALINITY(28)
L2127467-01J	Plastic 250ml NaOH preserved	A	>12	>12	3.5	Y	Absent		TCN-4500(14)
L2127467-01K	Plastic 250ml HNO3 preserved	A	<2	<2	3.5	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2127467-01L	Plastic 250ml HNO3 preserved	A	<2	<2	3.5	Y	Absent		CD-2008T(180),NI-2008T(180),ZN-2008T(180),HARDU(180),CU-2008T(180),FE-UI(180),HG-U(28),SE-2008T(180),AG-2008T(180),AS-2008T(180),CR-2008T(180),PB-2008T(180),SB-2008T(180)
L2127467-01M	Plastic 500ml H2SO4 preserved	A	<2	<2	3.5	Y	Absent		NH3-4500(28)
L2127467-01N	Plastic 950ml unpreserved	A	7	7	3.5	Y	Absent		HEXCR-7196(1),CL-300(28),TRC-4500(1),PH-4500(.01)
L2127467-01O	Plastic 950ml unpreserved	A	7	7	3.5	Y	Absent		TSS-2540(7)
L2127467-01P	Amber 950ml H2SO4 preserved	A	<2	<2	3.5	Y	Absent		TPHENOL-420(28)
L2127467-01Q	Amber 1000ml Na2S2O3	A	7	7	3.5	Y	Absent		625.1-RGP(7),625.1-SIM-RGP(7)
L2127467-01R	Amber 1000ml Na2S2O3	A	7	7	3.5	Y	Absent		625.1-RGP(7),625.1-SIM-RGP(7)
L2127467-01S	Amber 1000ml Na2S2O3	A	7	7	3.5	Y	Absent		PCB-608.3(365)
L2127467-01T	Amber 1000ml Na2S2O3	A	7	7	3.5	Y	Absent		PCB-608.3(365)

*Values in parentheses indicate holding time in days

Project Name: ALLSTON YARDS-BUILDING A
Project Number: 134110-007 Task 03

Lab Number: L2127467
Report Date: 05/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2127467-01U	Amber 1000ml Na2S2O3	A	7	7	3.5	Y	Absent		PCB-608.3(365)
L2127467-01V	Amber 1000ml Na2S2O3	A	7	7	3.5	Y	Absent		PCB-608.3(365)
L2127467-01W	Amber 1000ml HCl preserved	A	NA		3.5	Y	Absent		TPH-1664(28)
L2127467-01X	Amber 1000ml HCl preserved	A	NA		3.5	Y	Absent		TPH-1664(28)
L2127467-02A	Plastic 60ml unpreserved	B	7	7	4.2	Y	Absent		PH-4500(.01)
L2127467-02B	Plastic 250ml HNO3 preserved	B	<2	<2	4.2	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2127467-02C	Plastic 250ml HNO3 preserved	B	<2	<2	4.2	Y	Absent		CD-2008T(180),NI-2008T(180),ZN-2008T(180),FE-UI(180),HARDU(180),CU-2008T(180),AG-2008T(180),SE-2008T(180),AS-2008T(180),HG-U(28),SB-2008T(180),PB-2008T(180),CR-2008T(180)
L2127467-02D	Plastic 500ml H2SO4 preserved	B	<2	<2	4.2	Y	Absent		NH3-4500(28)

*Values in parentheses indicate holding time in days

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GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

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

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

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Footnotes

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

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

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

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the reporting limit (RL) for the sample.

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

Report Format: Data Usability Report

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Data Qualifiers

the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

Project Name:	ALLSTON YARDS-BUILDING A	**Lab Number:**	L2127467
Project Number:	134110-007 Task 03	**Report Date:**	05/28/21

REFERENCES

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

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

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

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

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

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

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

107 Alpha Analytical - In-house calculation method.

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

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

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

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

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

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

CHAIN OF CUSTODY

Page 1 of 1

Date Rec'd in Lab: 5/24/21

ALPHA Job #: L2127467

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

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

Service Centers: Brewer, ME 04412 — Portsmouth, NH 03801 Mahwah, NJ 07430 — Albany, NY 12205 — Tonawanda, NY 14150 — Holmes, PA 19043

Project Information

- Project Name: Allston Yards - Building A
- Project Location: Allston, MA
- Project #: 134110-007 Phase 007 Task 03
- (Use Project name as Project #) ☐
- Project Manager: J. Siegel/C. Worthy
- ALPHAQuote #:

Turn-Around Time

- Standard ☑ — Due Date:
- (only if pre approved) ☐ — # of Days: 5 Day

H&A Information

- H&A Client: Bozzuto Development Company
- H&A Address: 465 Medford St, Boston, MA 02129-1400
- H&A Phone: 617-886-7400
- H&A Fax:
- H&A Email: cmckenzie@haleyaldrich.com

Deliverables

- ☑ Email ☐ Fax
- ☐ EQuIS (1 File) ☑ EQuIS (4 File)
- ☐ Other:

Regulatory Requirements (Program/Criteria)

MA NPDES RGP

Note: Select State from menu & identify criteria.

Billing Information

☐ PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility: ☐ NJ ☐ NY ☐ Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

**Field Filtered
PLEASE RUN FOR FULL 2017 RGP SUITE, MINUS ETHANOL
Analyze using the EPA 2017 RGP Approved Testing Methods

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TSS-2540, TRC-4500	TCN-4500, 504	624.1, 624.1-SIM for Dioxane	HEXCR-3500, Trivalent Chromium	625.1 TCL (also including Diethylhexylphthalate).	625.1 TCL-SIM	Total Metals: Ag, As, Cd, Cr, Cu, Ni, Pb, Sb, Se, Zn, Fe,	CL-300	Ammonia	hardness	TPH-1664, PCB-608, TPHENOL-420	**HOLD DISSOLVED METALS	pH	Salinity	Sample Specific Comments	Total # Bottles
274167-01	HA16-IL05242021	5/24/2021	1455	AQ	MTD	X	X	X	X	X	X	X	X	X	X	X	X	X	X	HOLD diss metals sample	26
-02	HA21-AY-RW	5/24/2021	1720	AQ	MSD							X		X	X		X	X		HOLD diss metals sample	4

Receiving Sample pH. 7.19

30 TOTAL 2 coolers

Sample Filtration

☑ Done ☐ Lab to do

Preservation

☐ Lab to do

(Please Specify below)

Container Type	P		[illegible]	P	[illegible]A	AV	P	P	P		A	P		A							
Preservative	A		H	A	H		C	A	D	A		HC		A							

Preservative Code: A = None, B = HCl, C = HNO_3, D = H_2SO_4, E = NaOH, F = MeOH, G = $NaHSO_4$, H = $Na_2S_2O_3$, K/E = Zn Ac/NaOH, O = Other

Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle

Westboro: Certification No: MA935

Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	5/24/2021 1520	[signature]	PHLM ARL 1520
[signature]	5/24/21 1918	[signature]	5/24/21 1816

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# 2015-18-Alpha Analytical by and between Haley & Aldrich, Inc., its subsidiaries and affiliates and Alpha Analytical.

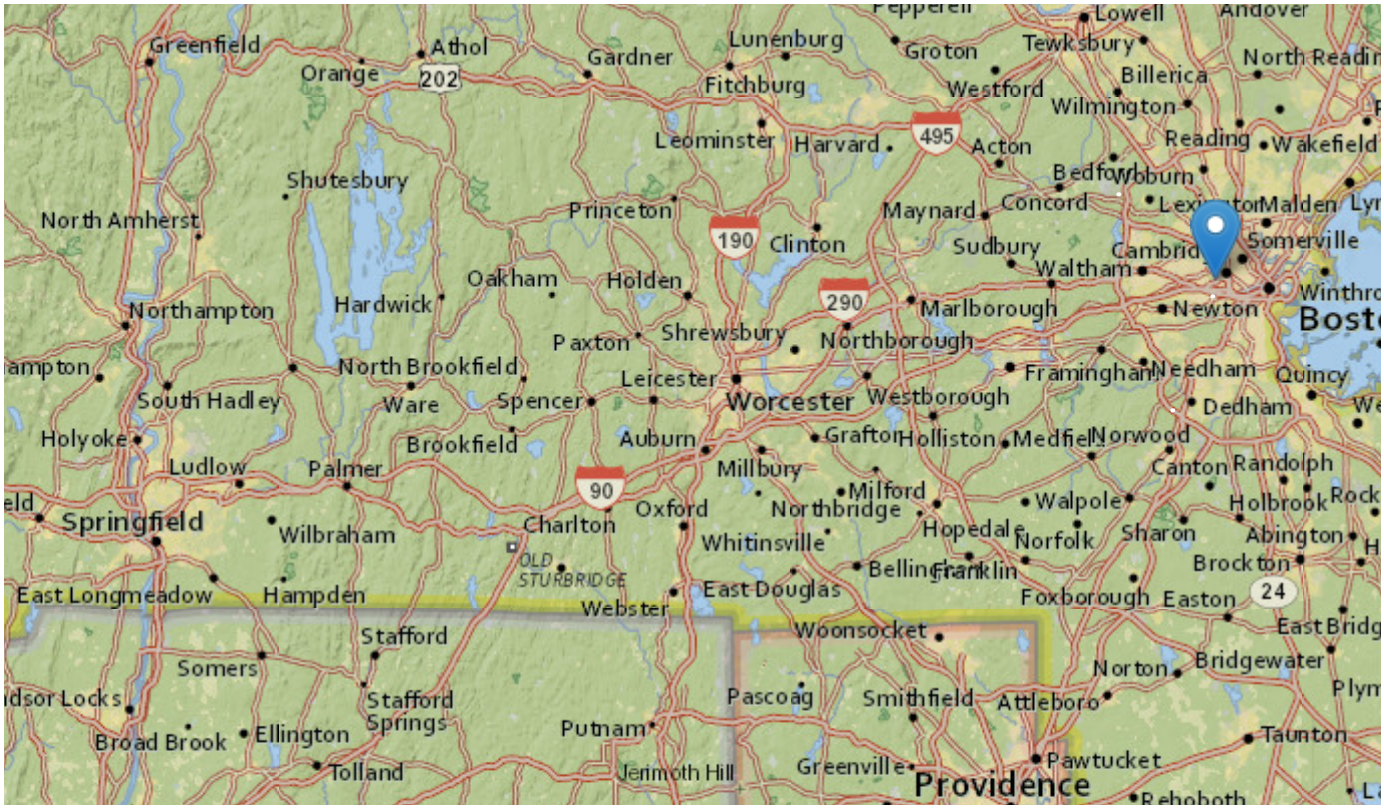
Document ID: 20455 Rev 1 (1/28/2016)

APPENDIX C

Effluent Limitations Documentation

StreamStats Report - Allston Yards

Region ID: MA
Workspace ID: MA20210603180004444000
Clicked Point (Latitude, Longitude): 42.36673, -71.13665
Time: 2021-06-03 14:00:21 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	279	square miles
ELEV	Mean Basin Elevation	202	feet
LC06STOR	Percentage of water bodies and wetlands determined from the NLCD 2006	13.21	percent
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	279	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	48.9	ft^3/s
7 Day 10 Year Low Flow	24.3	ft^3/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/)

functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.5.3
StreamStats Services Version: 1.2.22
NSS Services Version: 2.1.2

HALEY & ALDRICH, INC.		**CALCULATIONS**	FILE NO.	1341100-007
			SHEET	1 of 1
CLIENT	WJG Realty Company, LLC		DATE	4-Jun-21
PROJECT	Allston Yards (60 Everett Street), Allston, MA		COMPUTED BY	MSP
SUBJECT	Dilution Factor Calculations			

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 24.3 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)

$$Q_S = \frac{24.3\ ft^3}{sec} \times \frac{7.48\ gallons}{ft^3} \times \frac{86{,}400\ sec}{day} \times \frac{1\ MG}{1{,}000{,}000\ gallons}$$

$Q_S =$ 15.7 MGD

Discharge Flowrate (Q_D)

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

$Q_D =$ 0.216 MGD

Dilution Factor (DF)

$$DF = \frac{Q_S + Q_D}{QD} = \frac{15.7\ MGD + 0.216\ MGD}{0.216\ MGD} = 73.7$$

CONCLUSION: The dilution factor for this project is calculated to be 73.7 based on the provided 7Q10 low flow value and discharge flowrate.

Plourde, Mathew

From: Kathleen Keohane <kkeohane@townisp.com>
Sent: Monday, June 7, 2021 3:58 PM
To: Plourde, Mathew; McKenzie, Corinne
Cc: Vakalopoulos, Catherine (DEP); xiodan.ruan@mass.gov; kathleen.keohane@mass.gov
Subject: RE: 7Q10 + Dilution Factor for NPDES NOI - Allston Yards Project - 60 Everett St., Allston

CAUTION: External Email

The 7Q10 of 24.3 cfs (15.7 MGD) and the dilution factor calculation of 73.7 using a design flow of 150 gpm (0.216 MGD) for the proposed discharge from Allston Yards at 60 Everett St, Allston to the Charles River is correct.

Here is the water quality information to assist you with filling out the NOI (some of which you already have):

Waterbody and ID: Charles River (MA72-36)
Classification: B, warm water fishery
Outstanding Resource Water?: No

State's most recent Integrated List is located here: https://www.epa.gov/sites/production/files/2020-01/documents/2016-ma-303d-list-report.pdf, search for "MA72-36" to see the causes of impairments.
TMDLs: There are approved TMDL (pathogens and phosphorus) for this segment.

As you may know, 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) using ePLACE. Instructions on how to apply are located here: https://www.mass.gov/how-to/wm-15-npdes-general-permit-notice-of-intent and information on how to get ePLACE technical assistance is available on the ePLACE Portal webpage: https://eplace.eea.mass.gov/citizenaccess/.

Please let me know if you have any questions.

Sent from Mail for Windows 10

From: "Plourde, Mathew" <MPlourde@haleyaldrich.com>
Date: Friday, June 4, 2021 at 2:36 PM
To: "Vakalopoulos, Catherine (DEP)" <catherine.vakalopoulos@mass.gov>
Cc: "McKenzie, Corinne" <CMcKenzie@HaleyAldrich.com>
Subject: 7Q10 + Dilution Factor for NPDES NOI - Allston Yards Project

Hi Cathy,

As required in Appendix V of the 2017 NPDES RGP, I have attached to this email our StreamStats report detailing the 7 Day 10 Year (7Q10) low flow value for our project (listed below) along with the dilution factor calculations for your review and confirmation.

Project:
Allston Yards
60 Everett Street
Allston, MA

Discharge:
Charles River via stormwater system outfall. See attached discharge route.
Design System Flow: 150 gallons per minute (0.216 MGD)
7 Day 10 Year Low Flow value (from attached StreamStats Report) = 24.3 cfs or 15.7 MGD

Dilution Factor (from attached calculations) = 73.7

Can you please confirm if these values are appropriate for use for our project?

Thank you,
Mat

Mathew Plourde
Staff Engineer

Haley & Aldrich, Inc.
465 Medford Street| Suite 2200
Charlestown, MA 02129

T: 617-886-7386
C: 978-328-4273

www.haleyaldrich.com

<StreamStats - Allston Yards.pdf>

<2021-0603-HAI-Allston Yards Dilution Factor Calc.pdf>

<Figure 3 - Discharge Route.pdf>

Enter number values in green boxes below

Notes:

Enter values in the units specified

↓		
15.7	Q_R = Enter upstream flow in **MGD**	Freshwater: Q_R equal to the 7Q10; enter alternate Q_R if approved by the State; enter 0 if no dilution factor approved
0.216	Q_P = Enter discharge flow in **MGD**	Saltwater (estuarine and marine): enter Q_R if approved by the State; enter 0 if no entry
		Discharge flow is equal to the design flow or 1 MGD, whichever is less
0	Downstream 7Q10	Only if approved by State as the entry for Q_R; leave 0 if no entry

Enter a dilution factor, if other than zero

↓	
73.7	Saltwater (estuarine and marine): only if approved by the State Leave 0 if no entry

Enter values in the units specified

↓		
427	C_d = Enter influent hardness in **mg/L** $CaCO_3$	Freshwater only
403	C_s = Enter receiving water hardness in **mg/L** $CaCO_3$	

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

↓		
7	pH in **Standard Units**	pH, temperature, and ammonia required for all discharges
19.9	Temperature in **°C**	Hardness required for freshwater
0	Ammonia in **mg/L**	Salinity required for saltwater (estuarine and marine)
403	Hardness in **mg/L** $CaCO_3$	Metals required for all discharges if present and if dilution factor is > 1
0	Salinity in **ppt**	Enter 0 if non-detect or testing not required
0	Antimony in **µg/L**	
0	Arsenic in **µg/L**	
0	Cadmium in **µg/L**	
0	Chromium III in **µg/L**	
0	Chromium VI in **µg/L**	
0	Copper in **µg/L**	
553	Iron in **µg/L**	
1.34	Lead in **µg/L**	
0	Mercury in **µg/L**	
0	Nickel in **µg/L**	
0	Selenium in **µg/L**	
0	Silver in **µg/L**	
0	Zinc in **µg/L**	

Enter **influent** concentrations in the units specified

↓		
0	TRC in **µg/L**	if >1 sample, enter maximum
0	Ammonia in **mg/L**	if >10 samples, may enter 95th percentile
0	Antimony in **µg/L**	Enter 0 if non-detect or testing not required
0	Arsenic in **µg/L**	
0	Cadmium in **µg/L**	
0	Chromium III in **µg/L**	
0	Chromium VI in **µg/L**	
4.1	Copper in **µg/L**	
492	Iron in **µg/L**	
1.09	Lead in **µg/L**	
0	Mercury in **µg/L**	
4.12	Nickel in **µg/L**	
0	Selenium in **µg/L**	
0	Silver in **µg/L**	
0	Zinc in **µg/L**	
0	Cyanide in **µg/L**	
0	Phenol in **µg/L**	
0	Carbon Tetrachloride in **µg/L**	
0	Tetrachloroethylene in **µg/L**	
0	Total Phthalates in **µg/L**	
0	Diethylhexylphthalate in **µg/L**	
0	Benzo(a)anthracene in **µg/L**	
0	Benzo(a)pyrene in **µg/L**	
0	Benzo(b)fluoranthene in **µg/L**	
0	Benzo(k)fluoranthene in **µg/L**	
0	Chrysene in **µg/L**	
0	Dibenzo(a,h)anthracene in **µg/L**	
0	Indeno(1,2,3-cd)pyrene in **µg/L**	
0	Methyl-tert butyl ether in **µg/L**	

Dilution Factor	73.7					
	TBEL applies if bolded		WQBEL applies if bolded		Compliance Level applies if shown	
A. Inorganics						
Ammonia	**Report**	mg/L	---			
Chloride	**Report**	µg/L	---			
Total Residual Chlorine	**0.2**	mg/L	811	µg/L	---	µg/L
Total Suspended Solids	**30**	mg/L	---			
Antimony	**206**	µg/L	47159	µg/L		
Arsenic	**104**	µg/L	737	µg/L		
Cadmium	**10.2**	µg/L	56.0370	µg/L		
Chromium III	**323**	µg/L	19898.4	µg/L		
Chromium VI	**323**	µg/L	842.6	µg/L		
Copper	**242**	µg/L	2263.3	µg/L		
Iron	**5000**	µg/L	33490	µg/L		
Lead	**160**	µg/L	1286.25	µg/L		
Mercury	**0.739**	µg/L	66.75	µg/L		
Nickel	**1450**	µg/L	12506.3	µg/L		
Selenium	**235.8**	µg/L	368.4	µg/L		
Silver	**35.1**	µg/L	3069.8	µg/L		
Zinc	**420**	µg/L	28778.5	µg/L		
Cyanide	**178**	mg/L	383.2	µg/L	---	µg/L
B. Non-Halogenated VOCs						
Total BTEX	**100**	µg/L	---			
Benzene	**5.0**	µg/L	---			
1,4 Dioxane	**200**	µg/L	---			
Acetone	**7970**	µg/L	---			
Phenol	**1,080**	µg/L	22106	µg/L		
C. Halogenated VOCs						
Carbon Tetrachloride	**4.4**	µg/L	117.9	µg/L		
1,2 Dichlorobenzene	**600**	µg/L	---			
1,3 Dichlorobenzene	**320**	µg/L	---			
1,4 Dichlorobenzene	**5.0**	µg/L	---			
Total dichlorobenzene	**---**	µg/L	---			
1,1 Dichloroethane	**70**	µg/L	---			
1,2 Dichloroethane	**5.0**	µg/L	---			
1,1 Dichloroethylene	**3.2**	µg/L	---			
Ethylene Dibromide	**0.05**	µg/L	---			
Methylene Chloride	**4.6**	µg/L	---			
1,1,1 Trichloroethane	**200**	µg/L	---			
1,1,2 Trichloroethane	**5.0**	µg/L	---			
Trichloroethylene	**5.0**	µg/L	---			
Tetrachloroethylene	**5.0**	µg/L	243.2	µg/L		
cis-1,2 Dichloroethylene	**70**	µg/L	---			
Vinyl Chloride	**2.0**	µg/L	---			
D. Non-Halogenated SVOCs						
Total Phthalates	**190**	µg/L	---	µg/L		
Diethylhexyl phthalate	**101**	µg/L	162.1	µg/L		
Total Group I Polycyclic Aromatic Hydrocarbons	**1.0**	µg/L	---			
Benzo(a)anthracene	**1.0**	µg/L	0.2800	µg/L	---	µg/L
Benzo(a)pyrene	**1.0**	µg/L	0.2800	µg/L	---	µg/L
Benzo(b)fluoranthene	**1.0**	µg/L	0.2800	µg/L	---	µg/L
Benzo(k)fluoranthene	**1.0**	µg/L	0.2800	µg/L	---	µg/L
Chrysene	**1.0**	µg/L	0.2800	µg/L	---	µg/L
Dibenzo(a,h)anthracene	**1.0**	µg/L	0.2800	µg/L	---	µg/L
Indeno(1,2,3-cd)pyrene	**1.0**	µg/L	0.2800	µg/L	---	µg/L
Total Group II Polycyclic Aromatic Hydrocarbons	**100**	µg/L	---			
Naphthalene	**20**	µg/L	---			
E. Halogenated SVOCs						
Total Polychlorinated Biphenyls	**0.000064**	µg/L	---		0.5	µg/L
Pentachlorophenol	**1.0**	µg/L	---			
F. Fuels Parameters						
Total Petroleum Hydrocarbons	**5.0**	mg/L	---			
Ethanol	**Report**	mg/L	---			
Methyl-tert-Butyl Ether	**70**	µg/L	1474	µg/L		
tert-Butyl Alcohol	**120**	µg/L	---			
tert-Amyl Methyl Ether	**90**	µg/L	---			

APPENDIX D

Endangered Species Act Assessment

IPaC **U.S. Fish & Wildlife Service**

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.

Project information

NAME

Allston Yards - Building A

LOCATION

Suffolk County, Massachusetts

DESCRIPTION

Some(60 Everett Street, Allston, MA)

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. Log in to IPaC.
2. Go to your My Projects list.
3. Click PROJECT HOME for this project.
4. Click REQUEST SPECIES LIST.

Listed species[1] 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[2]).

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.

THERE ARE NO ENDANGERED SPECIES EXPECTED TO OCCUR AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

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 erythropthalmus* 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

Bobolink Dolichonyx oryzivorus — Breeds May 20 to Jul 31
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Canada Warbler Cardellina canadensis — Breeds May 20 to Aug 10
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

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

Dunlin Calidris alpina arcticola — Breeds elsewhere
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Evening Grosbeak Coccothraustes vespertinus — Breeds elsewhere
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

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

Nelson's Sparrow Ammodramus nelsoni — Breeds May 15 to Sep 5
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

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.

Red-throated Loon Gavia stellata — Breeds elsewhere
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) throughout its range in the continental USA and Alaska.

Semipalmated Sandpiper Calidris pusilla — Breeds elsewhere
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Snowy Owl Bubo scandiacus — Breeds elsewhere
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

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 (■)

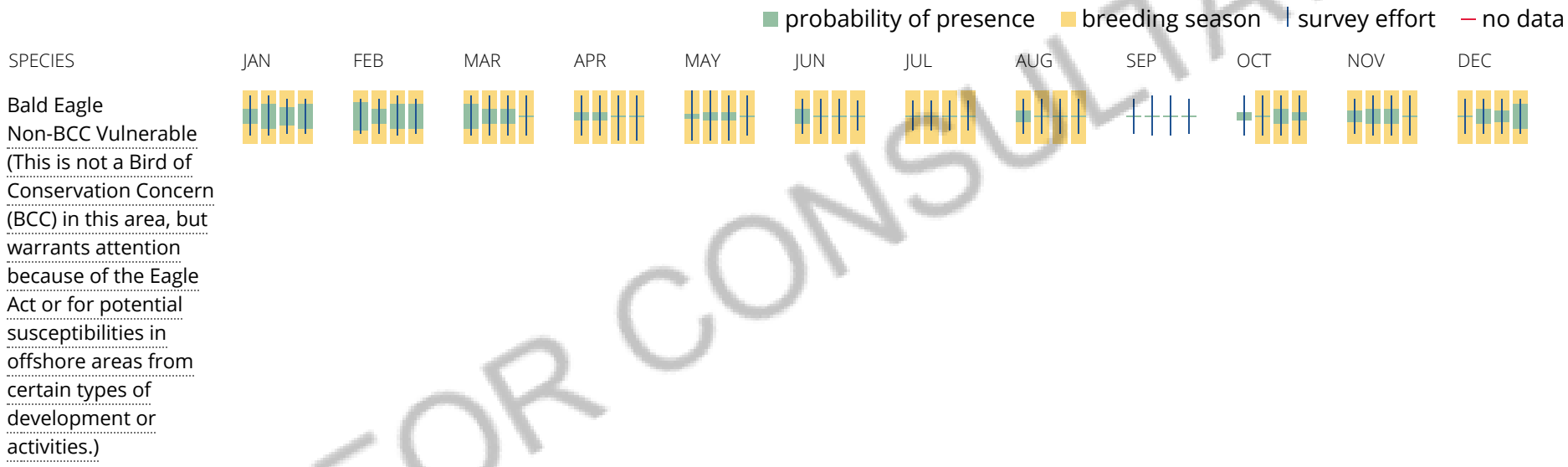
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

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.

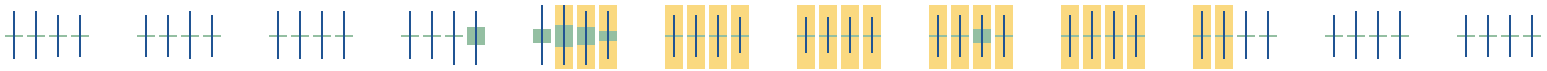
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

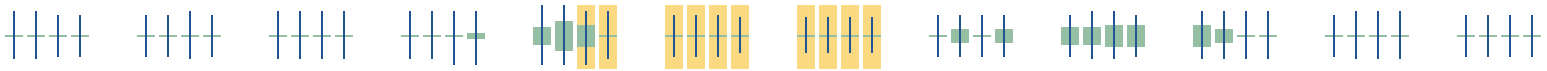
Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



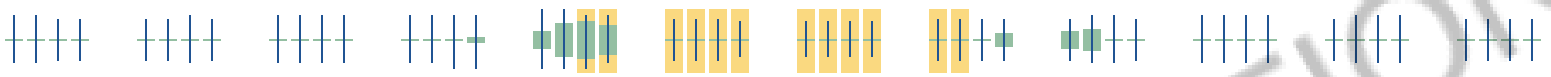
Black-billed Cuckoo BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



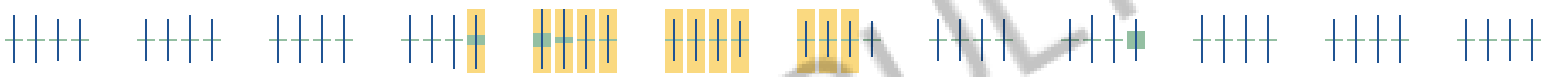
Bobolink BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



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



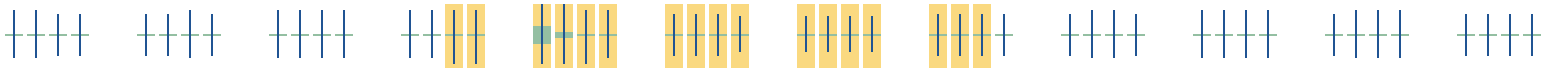
Cerulean Warbler BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



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

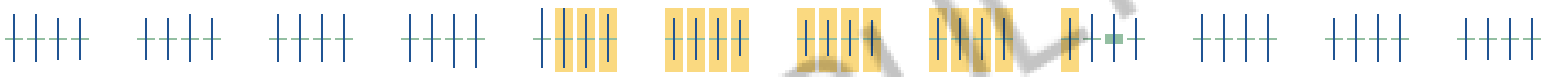
Evening Grosbeak BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

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

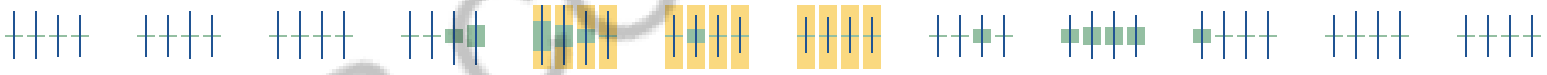


Lesser Yellowlegs BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

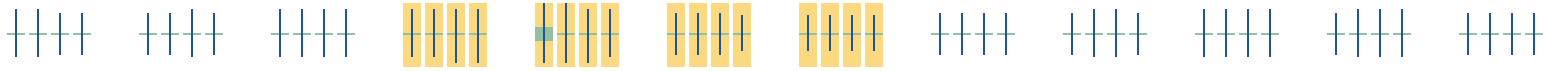
Nelson's Sparrow BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



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



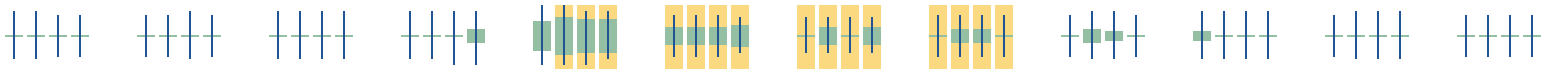
Prothonotary Warbler BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Red-headed Woodpecker BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)												
Red-throated Loon BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)												
Rusty Blackbird BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)												
Semipalmated Sandpiper BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)												

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

Wood Thrush 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 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 tuberficid 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.

United States Department of the Interior

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

In Reply Refer To: June 03, 2021
Consultation Code: 05E1NE00-2021-SLI-3706
Event Code: 05E1NE00-2021-E-11082
Project Name: Allston Yards - Building A

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

To Whom It May Concern:

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

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

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

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

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

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

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

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

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

Attachment(s):

- Official Species List

Official Species List

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

This species list is provided by:

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

Project Summary

Consultation Code: 05E1NE00-2021-SLI-3706
Event Code: 05E1NE00-2021-E-11082
Project Name: Allston Yards - Building A
Project Type: DEVELOPMENT
Project Description: 60 Everett Street, Allston, MA
Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@42.3564291,-71.14005916167102,14z

Counties: Suffolk County, Massachusetts

Endangered Species Act Species

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

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

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

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

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

Critical habitats

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

MassDEP - Bureau of Waste Site Cleanup

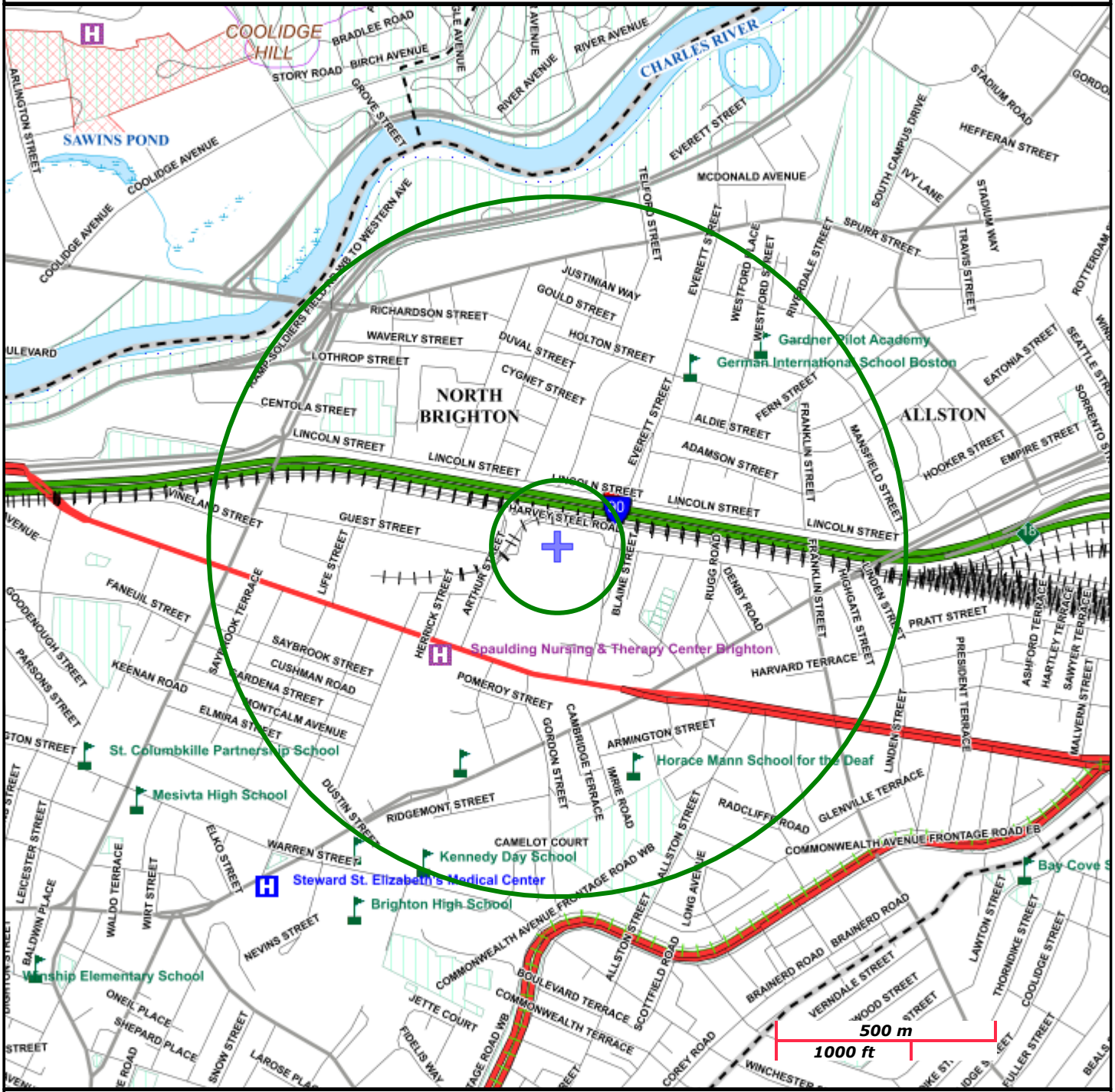
Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

Site Information:
ALLSTON YARDS - BUILDING A
60 EVERETT STREET BOSTON, MA

NAD83 UTM Meters:
4691589mN , 323770mE (Zone: 19)
June 3, 2021

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

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail
Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct
Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam
Aquifers: Medium Yield, High Yield, EPA Sole Source
Non Potential Drinking Water Source Area: Medium, High (Yield)
PWS Protection Areas: Zone II, IWPA, Zone A
Hydrography: Open Water, PWS Reservoir, Tidal Flat
Wetlands: Freshwater, Saltwater, Cranberry Bog
FEMA 100yr Floodplain; Protected Open Space; ACEC
Est. Rare Wetland Wildlife Hab; Vernal Pool: Cert., Potential
Solid Waste Landfill; PWS: Com.GW,SW, Emerg., Non-Com.

APPENDIX E

National Historic Preservation Act Review

Massachusetts Cultural Resource Information System

MACRIS

MACRIS Search Results

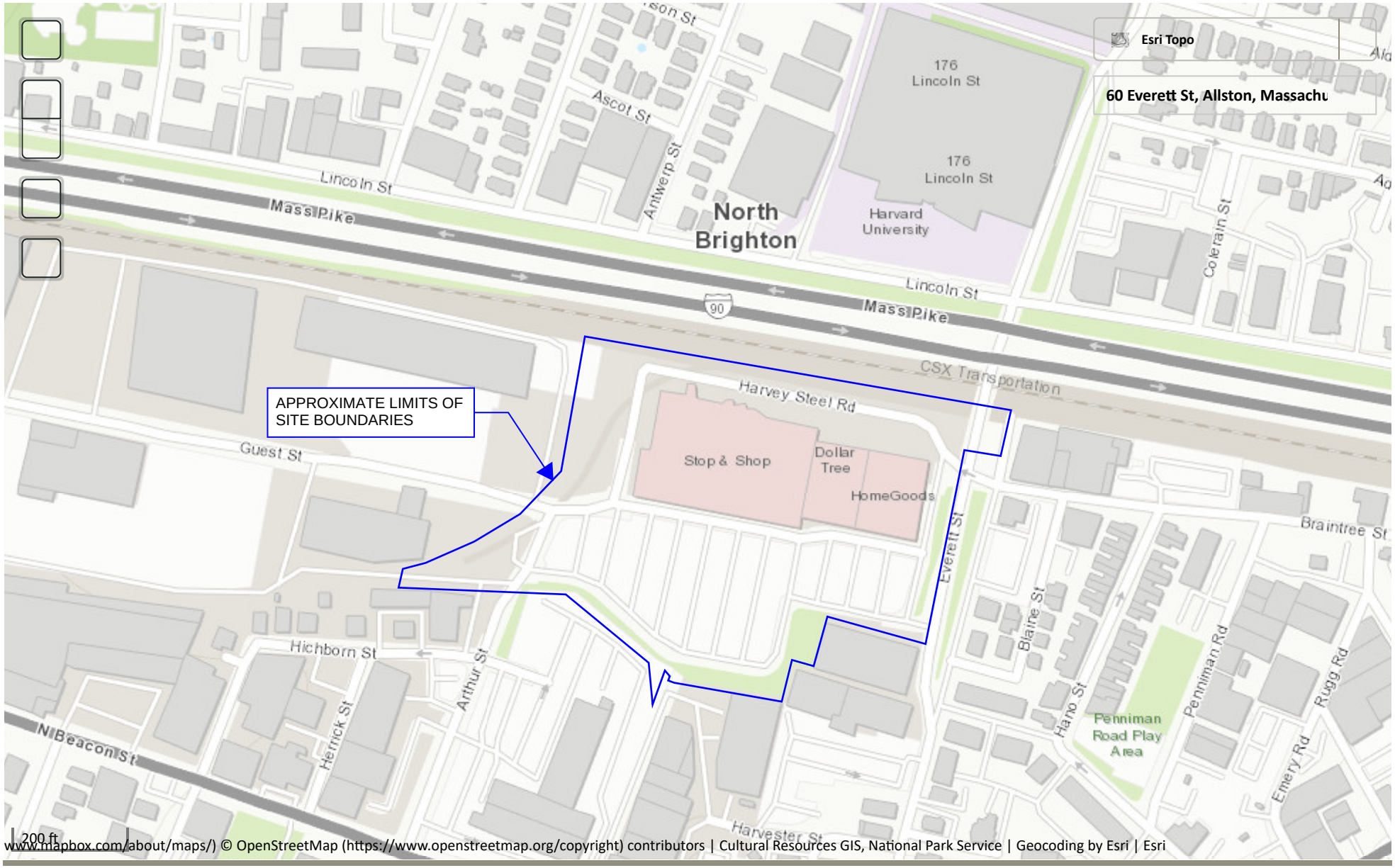
Search Criteria: Town(s): Boston; Street No: 60; Street Name: Everett; Resource Type(s): Area, Building, Burial Ground, Object, Structure;

Inv. No.	Property Name	Street	Town	Year

National Register of Historic Places

National Park Service
U.S. Department of the Interior

Public, non-restricted data depicting National Register spatial data processed by the Cultural Resources GIS facility. …



APPENDIX F

BWSC Permit Application

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

9 July 2021
File No. 134110-007

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

Attention: Jodi Dobay

Subject: Request for Approval of Temporary Construction Dewatering
Allston Yards – Building A
60 Everett Street
Allston, Massachusetts

Dear Mrs. Dobay:

On behalf of our client, Bozzuto Development Company, this letter submits the Dewatering Discharge Permit Application in support of the proposed Building A portion of the Allston Yards redevelopment project located at 60 Everett Street in Allston, Massachusetts.

Dewatering is necessary to enable construction in-the-dry and is anticipated to begin in September 2021 and continue for up to 12 months. Prior to discharge, collected water will be routed through at minimum a sedimentation tank and bag filter to remove suspended solids and un-dissolved chemical constituents. Other pre-treatment may be conducted as necessary to comply with National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) temporary construction dewatering discharge criteria. The potential discharge location is shown on Figure 2. Effluent will be introduced into catch basins directed to a storm drain system and continue to the Charles River through outfall SDO037. A copy of the Boston Water and Sewer Commission Water and Sewer Map associated with the project site is attached.

A submittal was provided to the Environmental Protection Agency (EPA) for discharge of the dewatering effluent under the Remediation General Permit (RGP). A copy of the submitted RGP application is attached.

If you have any questions, please feel free to contact the undersigned at 617-886-7400.

Sincerely yours,
HALEY & ALDRICH, INC.

Mathew Plourde
Staff Engineer

Corinne McKenzie
Project Manager

Cole E. Worthy, LSP
Senior Associate

Attachments:

- Dewatering Discharge Permit Application
- Figure 1 – Project Locus
- Figure 2 – Phase I Development Map
- Copy of NPDES RGP Application

\\haleyaldrich.com\share\CF\Projects\134110\Building A\NPDES\Notice of Intent\Appendix C_BWSC Permit\2021-0709-BWSC Permit - Cover Letter - F.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: Dimeo Construction Company Address: 88 Black Falcon Avenue, Suite 307

Phone Number: (401) 639-4557 Fax number: _____

Contact person name: Frank Allard Title: _____

Cell number: (401) 639-4557 Email address: fallard@dimeo.com

Permit Request (check one): ☑ New Application ☐ Permit Extension ☐ Other (Specify): _____

Owner's Information (if different from above):

Owner of property being dewatered: Allston Yards Phase A LLC

Owner's mailing address: 1385 Hancock Street, Quincy, MA 02169 Phone number: 508-326-7276

Location of Discharge & Proposed Treatment System(s):

Street number and name: 60 Everett Street Neighborhood Allston

Discharge is to a: ☐ Sanitary Sewer ☐ Combined Sewer ☑ Storm Drain ☐ Other (specify): _____

Describe Proposed Pre-Treatment System(s): Settlement tank, bag filters, and potentially granular activated carbon (GAC).

BWSC Outfall No. SDO037 Receiving Waters Charles River

Temporary Discharges (Provide Anticipated Dates of Discharge): From 09/01/2021 To 09/30/2022

☐ Groundwater Remediation	☐ Tank Removal/Installation	☑ Foundation Excavation
☐ Utility/Manhole Pumping	☐ Test Pipe	☐ Trench Excavation
☐ Accumulated Surface Water	☐ Hydrogeologic Testing	☑ Other Soil Excavation for Site Development

Permanent Discharges

☐ Foundation Drainage	☐ Crawl Space/Footing Drain
☐ Accumulated Surface Water	☐ Non-contact/Uncontaminated Cooling
☐ Non-contact/Uncontaminated Process	☐ Other; _____

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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: Jodi Dobay, Engineering Customer Service
E-mail: beginj@bwsc.org
Phone: 617-989-7259 Fax: 617-989-7716

Signature of Authorized Representative for Property Owner: Francis C Allard Date: 7/28/2021