COLUMBIA

We're with you

August 21,2020

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

Re: Notice of Intent for the Remediation General Permit
Temporary Construction Dewatering for Site Redevelopment
810 Main Street, Cambridge, MA 02139

Dear Sir/Madam:

On behalf of Cambridge Brands Inc. (CBI), Columbia Construction Co. (Columbia) is submitting this Notice of Intent (NOI) to the U.S. Environmental Protection Agency (U.S. EPA) for coverage under the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) MAG910000 for a portion of 810 Main Street in Cambridge, Massachusetts (the Site). This letter and supporting documentation were prepared in accordance with the U.S. EPA guidance for construction dewatering under the RGP program. Columbia is the general contractor for the project and will have responsibility of the subcontractors performing the dewatering activities at the Site. Subcontractors working for Columbia on the project will be required to meet the requirements of this NOI and the RGP. The location of the Site and the discharge location into the Charles River via a storm drain outfall are shown on Figure 1.

The Site is approximately 34,700 square feet of developed land located at 810 Main Street in Cambridge, MA, as shown on Figure 1. In general, the Site is bound by Main Street to the North, State Street to the south, a paved parking lot to the west (currently used for U-Haul truck parking) and an existing five-story masonry structure with a basement to the east (Owned and operated by CBI). In addition, a one-story structure with a basement is located along the western side of the main building, as well as several trash compactors. The balance of the site is paved and is used for surface parking. The site is currently used primarily as a candy manufacturer.

Redevelopment activities at the Site include excavation of urban fill and natural soils to support the construction of a 4-story building addition with one-level of below grade basement space immediately adjacent to the two existing buildings. A portion of the new basement will be constructed with the floor approximately 5 feet lower to accommodate new underground primary

100 Riverpark Drive
North Reading, MA 01864
978.664.9500
columbiacc.com

and secondary electrical switchgear. The Site and proposed redevelopment plans are depicted on Figure 2.

The earthwork to prepare the Site for redevelopment will require excavation of soil to approximately 16 feet below ground surface (bgs). Groundwater is anticipated to be encountered at approximately 8 feet bgs. Excavations will be shored using sheet piles to achieve the proposed depths, and groundwater that flows into the excavations during construction activities that requires dewatering will be treated prior to discharge to an existing storm drain such that the discharged effluent meets the effluent limitations established by NPDES Part 2.1 and Appendix V of the RGP Application. Figure 3 includes a schematic of the proposed dewatering treatment system. The completed NOI for the Remediation General Permit form is included as Appendix A.

Sanborn Head performed soil pre-characterization activities in October 2019 to support the proposed construction. All detected analytes were below the applicable Massachusetts Contingency Plan (MCP) Reportable Concentrations for S-1 soils (RCS-1) with the exception of lead and benzo(a)pyrene. While these analytes were detected above RCS-1 standards, they were found to be consistent with background levels for soil containing coal ash and are not representative of a reportable condition. Groundwater sampling was also performed during this subsurface exploration. Contaminants in groundwater were not detected at concentrations above applicable MCP Reportable Concentrations in a sample collected from monitoring well SH-102W.

On July 28, 2020, Sanborn Head & Associates, the project's environmental consultant, collected three samples to characterize the receiving and source waters in support of this NOI. The source water samples were collected from existing groundwater monitoring well SH-102W and identified as SH-102W-F and SH-102W-UF. The receiving water was collected from the Charles River adjacent to the proposed outfall discharge location. The groundwater samples were collected via low flow methods and were submitted to Eastern Analytical, Inc. (Eastern) of Concord, New Hampshire for analysis of the 2017 NPDES suite of parameters. The surface water sample was submitted to Eastern for analysis of pH, hardness, ammonia, antimony, arsenic, cadmium, chromium (III), chromium (VI), copper, iron, lead, mercury, nickel, selenium, silver, and zinc.

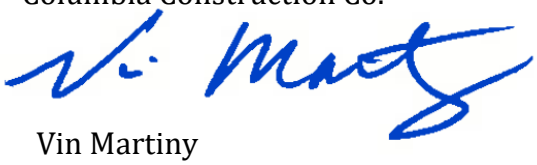
The receiving surface water discharge point for the treatment system will be the Charles River. Information regarding the receiving water was collected from the Massachusetts Year 2016 Integrated List of Waters which is included in Appendix B. Dilution calculation information including correspondence with DEP is included in Appendix C. Analytical laboratory data for on-Site and surface water sampling is summarized in Tables 1 and 2, respectively, and analytical data reports are included in Appendix D. Municipal correspondence in the form of a draft Permit to Dewater application is provided in Appendix E, which will be submitted to the Cambridge Department of Public Works concurrently with the submittal of this NOI. The Permit to Dewater will indicate a discharge into the Charles River, via the municipal storm sewer system. Notification for this permit will be provided to the Owner of the discharge system.

According to the Information for Planning and Conservation (IPaC), available through the U.S. Fish and Wildlife Service (FWS) website, the excavation activities will not impact Areas of Critical Environmental Concern (ACEC) or Habitats of Rare Wetland Wildlife. A letter from the FWS is included in Appendix F. An email requesting information regarding federally listed species in the project discharge area of the Charles River was sent to the National Oceanic and Atmospheric Administration (NOAA), and their response, included in Appendix F, states that no listed species are known to occur in the Charles River in the area of discharge.

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

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

Very truly yours,
Columbia Construction Co.



Vin Martiny
Project Manager

Encl. Table 1 – Summary of Groundwater Quality Data
Table 2 – Summary of Surface Water Quality Data
Figure 1 – Locus Plan
Figure 2 – Site Plan
Figure 3 – Proposed Groundwater Treatment Schematic
Appendix A – Notice of Intent Form
Appendix B – Selected Massachusetts Category 5 Waters
Appendix C – Charles River Dilution Calculations
Appendix D – Analytical Data Reports
Appendix E – Municipal Dewatering Permit
Appendix F – Federal Correspondence
Appendix G – National Register of Historic Places – Cambridge, MA

cc: Cambridge Public Health Department
DEP Bureau of Water Resources
Mr. Stan Sadkowski, P.E. ~ Sanborn, Head & Associates, Inc.

TABLES

Table 1
Summary of Groundwater Quality Data
810 Main Street, Cambridge, MA

LOCATION SAMPLING DATE	MCP RCGW-2	NPDES TBEL	NPDES WQBEL	Units	SH-102W-F 7/28/2020	SH-102W-UF 7/28/2020	Maximum Detection	Average Detection
Anions by Ion Chromatography								
Chloride	NS	Monitor Only	Monitor Only	ug/L	**530,000**	**530,000**	**530,000**	**530,000**
General Chemistry					-	-		
Chromium, Trivalent	600	323		ug/L	<10	<10	BDL	BDL
Solids, Total Suspended	NS	30		mg/L	<5	<5	BDL	BDL
Cyanide, Total	30	178,000		ug/L	**11**	**11**	**11**	**11**
Chlorine, Total Residual	NS	200		ug/L	<50	<50	BDL	BDL
Nitrogen, Ammonia	NS	Monitor Only	Monitor Only	ug/L	<50	<50	BDL	BDL
Chromium, Hexavalent	300	323		ug/L	<10	<10	BDL	BDL
Hardness as CaCO3	NS			ug/L	**250,000**	**270,000**	**270,000**	**260,000**
pH				SU	**7.06**	**7.06**	**7.1**	**7.1**
Microextractables by GC								
1,2-Dibromoethane	2	0.05		ug/L	<0.02	<0.02	BDL	BDL
Polychlorinated Biphenyls by GC								
Total PCBs	5	0.000064		ug/L	BDL	BDL	BDL	BDL
Semivolatile Organics by GC/MS								
Total Phthalates	NS	190		ug/L	BDL	BDL	BDL	BDL
Semivolatile Organics by GC/MS-SIM								
Total Group 1 PAHs	NS	1.0		ug/L	BDL	BDL	BDL	BDL
Total Group 2 PAHs	NS	100		ug/L	BDL	BDL	BDL	BDL
Total SVOCs	NS	NS		ug/L	BDL	BDL	BDL	BDL
Total Metals								
Antimony, Total	8,000	206		ug/L	**2.0**	**2.0**	**2.0**	**2.0**
Arsenic, Total	900	104		ug/L	<0.5	<0.5	BDL	BDL
Cadmium, Total	4	10.2		ug/L	<0.1	<0.1	BDL	BDL
Chromium, Total	300	323		ug/L	**0.75**	**0.68**	**0.8**	**0.72**
Copper, Total	100,000	242		ug/L	**6.8**	**6.5**	**6.8**	**6.65**
Iron, Total	NS	5,000		ug/L	**58**	**59**	**59.0**	**58.50**
Lead, Total	10	160		ug/L	**0.44**	**0.44**	**0.4**	**0.44**
Mercury, Total	20	0.739		ug/L	<0.2	<0.2	BDL	BDL
Nickel, Total	200	1450		ug/L	**1.6**	**1.4**	**1.6**	**1.50**
Selenium, Total	100	235.8		ug/L	**8.3**	**8.4**	**8.4**	**8.35**
Silver, Total	7	35.1		ug/L	<0.1	<0.1	BDL	BDL
Zinc, Total	900	420		ug/L	**66**	**53**	**66.0**	**59.50**
Volatile Organics by GC/MS								
Total BTEX	NS	100		ug/L	BDL	BDL	BDL	BDL
Volatile Organics by GC/MS-SIM								
1,4-Dioxane	6,000	200		ug/L	<0.2	<0.2	BDL	BDL

Notes:
1. Samples were collected by Sanborn, Head & Associates, Inc. (Sanborn Head) on the indicated dates and were analyzed by Eastern Analytical Inc. (EAI) of Concord, New Hampshire and Pace Analytical Services, LLC. of Melville, New York and Phoenix Environmental Laboratories, Inc. of Manchester, Connecticut (subcontracted by EAI).
2. Average concentrations for each analyte were calculated as an arithmetic average of detected concentrations and half of the detection limits where analytes were not detected.
3. Bolded values indicate detections above the laboratory reporting limits.
4. Abbreviations:
NPDES = National Pollutant Discharge Elimination System
TBEL = Technology based effluent limitation
WQBEL = Water quality based effluent limitation
MCP = Massachusetts Contingency Plan
RCGW-2 = MCP Reportable Concentration for groundwater category GW-2.
ug/L = micrograms per liter
mg/L = milligrams per liter
"<" indicates the analyte was not detected above the laboratory reporting limit shown
BDL = below detection limit
NS = No Standard
BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

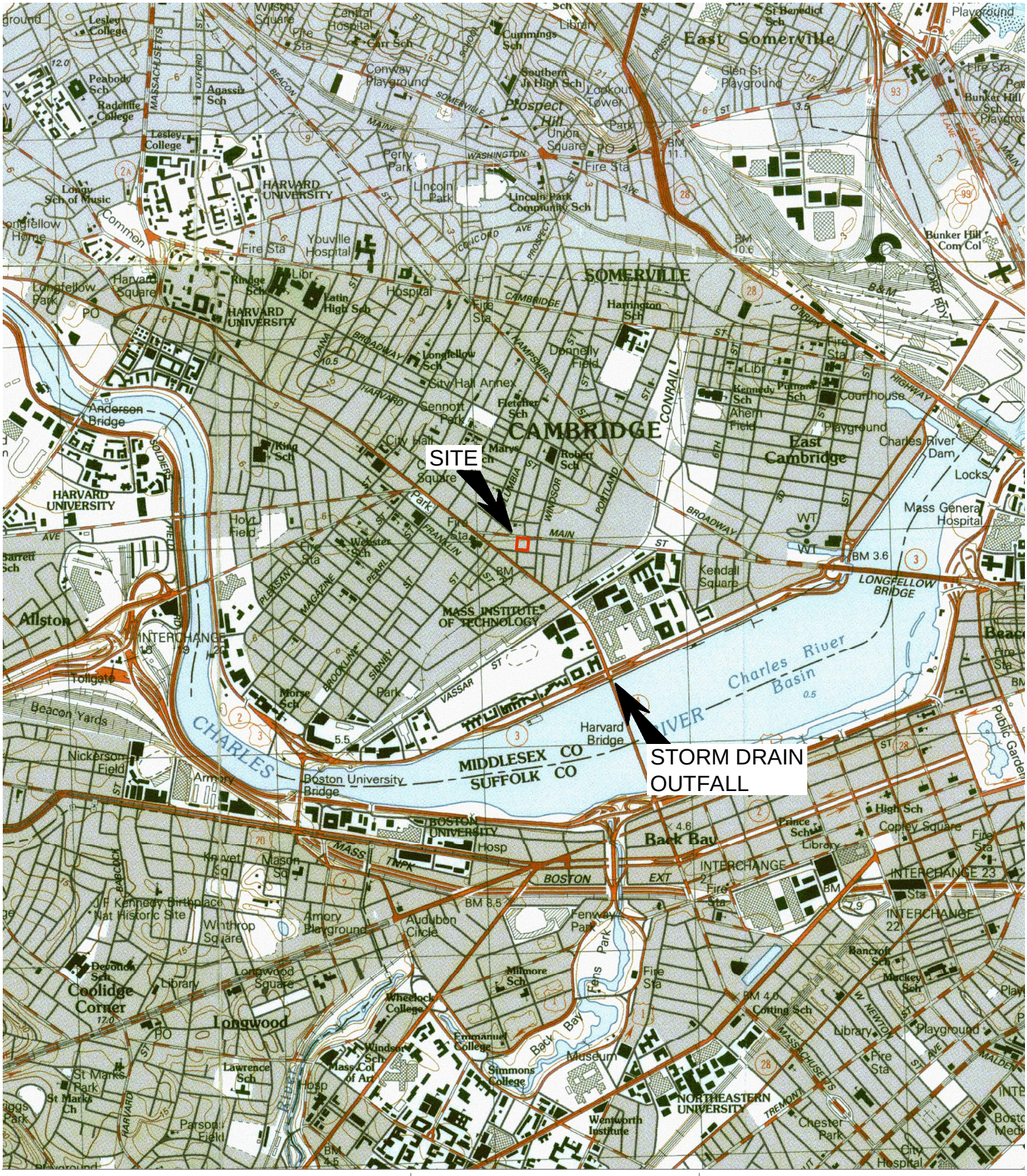
Table 2
Summary of Surface Water Quality Data
810 Main Street, Cambridge, MA

LOCATION SAMPLING DATE	NPDES TBEL	NPDES WQBEL	Units	SW 7/28/2020
Anions by Ion Chromatography				
Chloride	Monitor Only	Monitor Only	ug/L	-
General Chemistry				-
Chromium, Trivalent	323		ug/L	<10
Solids, Total Suspended	30		mg/L	-
Cyanide, Total	178,000		ug/L	-
Chlorine, Total Residual	200		ug/L	-
Nitrogen, Ammonia	Monitor Only	Monitor Only	ug/L	<50
Chromium, Hexavalent	323		ug/L	<10
Hardness as CaCO3			ug/L	**130,000**
pH			SU	**8.9**
Microextractables by GC				
1,2-Dibromoethane	0.05		ug/L	-
Polychlorinated Biphenyls by GC				
Total PCBs	0.000064		ug/L	-
Semivolatile Organics by GC/MS				
Total Phthalates	190		ug/L	-
Semivolatile Organics by GC/MS-SIM				
Total Group 1 PAHs	1.0		ug/L	-
Total Group 2 PAHs	100		ug/L	-
Total SVOCs	NS		ug/L	-
Total Metals				
Antimony, Total	206		ug/L	<0.5
Arsenic, Total	104		ug/L	**0.99**
Cadmium, Total	10.2		ug/L	<0.1
Chromium, Total	323		ug/L	**0.66**
Copper, Total	242		ug/L	**4.0**
Iron, Total	5,000		ug/L	**550**
Lead, Total	160		ug/L	**3.4**
Mercury, Total	0.739		ug/L	<0.2
Nickel, Total	1450		ug/L	**1.4**
Selenium, Total	235.8		ug/L	<0.5
Silver, Total	35.1		ug/L	<0.1
Zinc, Total	420		ug/L	**200**
Volatile Organics by GC/MS				
Total BTEX	100		ug/L	
Volatile Organics by GC/MS-SIM				
1,4-Dioxane	200		ug/L	-

Notes:
1. Samples were collected by Sanborn, Head & Associates, Inc. (Sanborn Head) on the indicated dates and were analyzed by Eastern Analytical Inc. (EAI) of Concord, New Hampshire and Pace Analytical Services, LLC. of Melville, New York and Phoenix Environmental Laboratories, Inc. of Manchester, Connecticut (subcontracted by EAI).
2. Bolded values indicate detections above the laboratory reporting limits.
4. Abbreviations:
NPDES = National Pollutant Discharge Elimination System
TBEL = Technology based effluent limitation
WQBEL = Water quality based effluent limitation
ug/L = micrograms per liter
mg/L = milligrams per liter
"<" indicates the analyte was not detected above the laboratory reporting limit shown

FIGURES

File:P:\4500s\4511.00\Graphics Files\CAD\NPDES-AUG20\NPDES.dwg Plot Date: 8-11-20



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

Drawn By: C.Dias
Designed By: S.Ring
Reviewed By: S.Sadkowski
Project No: 4511.00
Date: August 2020

SCALE: 1:25,000

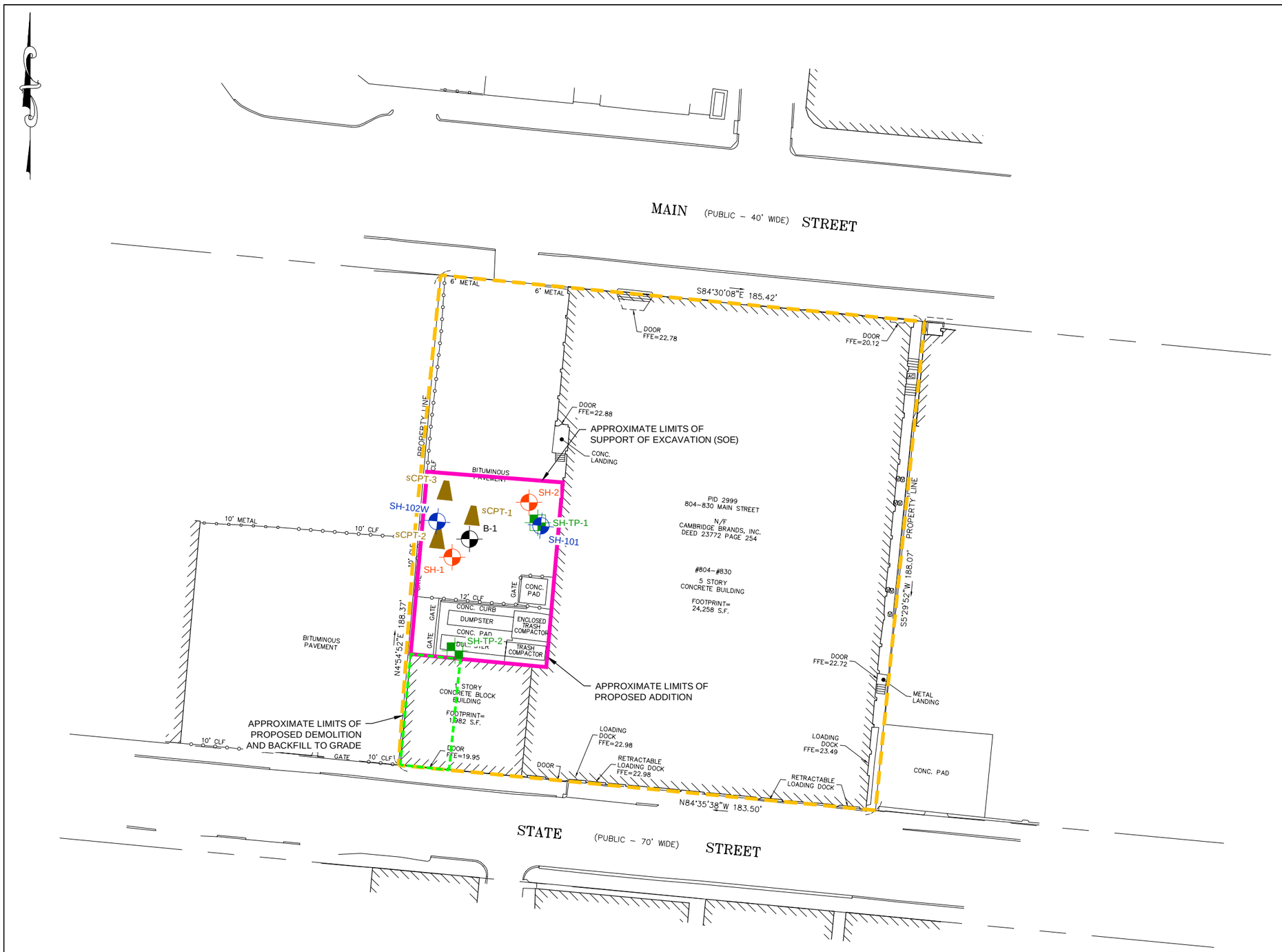
SANBORN HEAD

Figure 1

Locus Plan

NPDES Remediation General Permit

810 Main Street
Cambridge, Massachusetts



NOTES:

1. THE BASE MAP WAS DRAWN FROM A PLAN ENTITLED, "EXISTING CONDITIONS PLAN", PREPARED BY WSP USA, INC. (WSP) OF BRIGHTON, MA, REVISED DATE MAY 30, 2019 WITH AN ORIGINAL SCALE OF 1" = 20'.
2. THE PROPOSED SITE FEATURES WERE DRAWN FROM A PLAN ENTITLED, "SITE GRADING, DRAINAGE AND UTILITIES PLAN", PREPARED BY JOHN G. CROWE ASSOCIATES, INC. (CROWE) OF WINCHESTER, MA, DATED OCTOBER 4, 2019 WITH AN ORIGINAL SCALE OF 1" = 20'.
3. EXPLORATIONS DESIGNATED SH-1 AND SH-2 WERE ADVANCED BY CRAWFORD DRILLING SERVICES, LLC (CDS) OF WESTMINSTER, MA AND OBSERVED BY SANBORN HEAD ON DECEMBER 27, 2018.
4. TEST PITS DESIGNATED SH-TP-1 AND SH-TP-2 WERE EXCAVATED BY F.E. FRENCH CONSTRUCTION CO. (FRENCH) OF BELMONT, MA AND OBSERVED BY SANBORN HEAD ON DECEMBER 28, 2018 AND APRIL 5, 2019, RESPECTIVELY.
5. EXPLORATIONS DESIGNATED SH-101 THROUGH SH-102W WERE ADVANCED BY CDS AND OBSERVED BY SANBORN HEAD ON OCTOBER 7 AND 10, 2019.
6. EXPLORATIONS DESIGNATED sCPT-1 THROUGH sCPT-3 WERE ADVANCED BY CONETEC OF WEST BERLIN, NJ AND OBSERVED BY SANBORN HEAD ON MARCH 5, 2020.
7. EXPLORATION DESIGNATED B-1 WAS ADVANCED BY NORTHEAST GEOTECHNICAL, INC. ON DECEMBER 29, 2015.
8. APPROXIMATE LOCATIONS OF EXPLORATIONS ARE BASED ON TAPE MEASUREMENTS MADE IN THE FIELD RELATIVE TO PROMINENT SITE FEATURES. THIS DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

LEGEND:

- APPROXIMATE SITE BOUNDARY
- sCPT-1 — APPROXIMATE LOCATION AND DESIGNATION OF CONE PENETRATION TEST (CPT) OBSERVED BY SANBORN HEAD (MARCH 2020)
- SH-101 — APPROXIMATE LOCATION AND DESIGNATION OF TEST BORING OBSERVED BY SANBORN HEAD (OCTOBER 2019)
- SH-1 — APPROXIMATE LOCATION AND DESIGNATION OF TEST BORING OBSERVED BY SANBORN HEAD (DECEMBER 2018)
- SH-TP-1 — APPROXIMATE LOCATION AND DESIGNATION OF TEST PIT OBSERVED BY SANBORN HEAD (DECEMBER 2018 & APRIL 2019)
- B-1 — APPROXIMATE LOCATION AND DESIGNATION OF TEST BORING BY OTHERS (DECEMBER 2015)

SANBORN HEAD

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

NO.	DATE	DESCRIPTION	BY

DRAWN BY: C.DIAS
DESIGNED BY: S.RING
REVIEWED BY: S.SLATER
PROJECT MGR: S.SLATER
PIC: S.SADKOWSKI
DATE: AUGUST 2020

NPDES REMEDIATION GENERAL PERMIT
810 MAIN STREET
CAMBRIDGE, MASSACHUSETTS

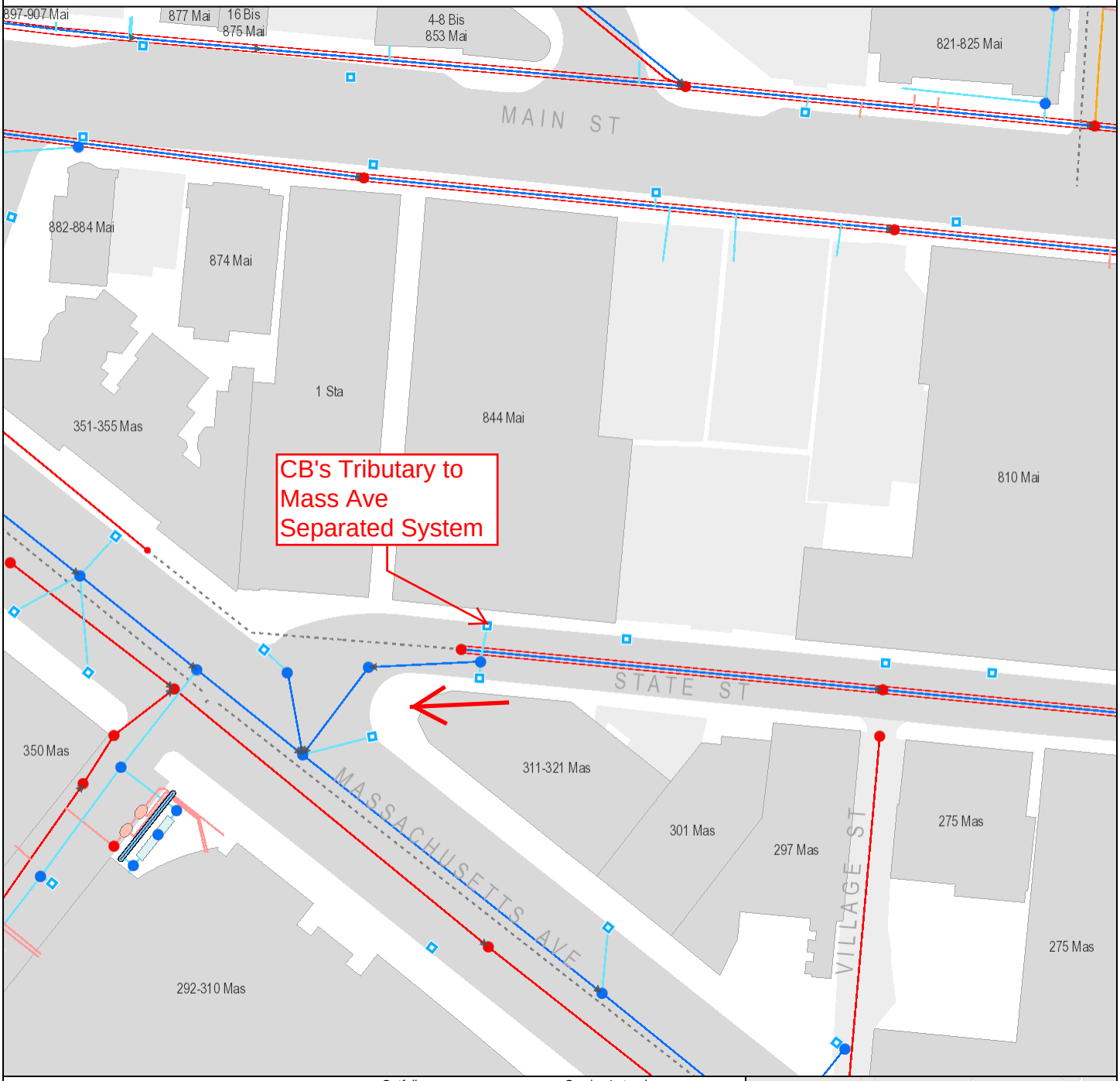
PROJECT NUMBER: 4511.00

EXPLORATION LOCATION PLAN

SHEET NUMBER: 2

City of Cambridge

July 6, 2020



City of Cambridge
Massachusetts

1" = 69 ft

www.cambridgema.gov/gis

Outfalls
- Stormwater
- Combined Sewer Overflo
- Abandoned

Pumping Structures
- Pump Station
- Lift Station

Manholes
- Stormwater
- Sewage
- Combined Sewage
- Abandoned

Lampholes
- LampHole, Sewage
- LampHole, Storm Runoff

Catchbasins
- Standard Sump
- Drop Inlet
- Area Drain
- Drywell
- Oil/Water Separator
- Abandoned

Trench Drains

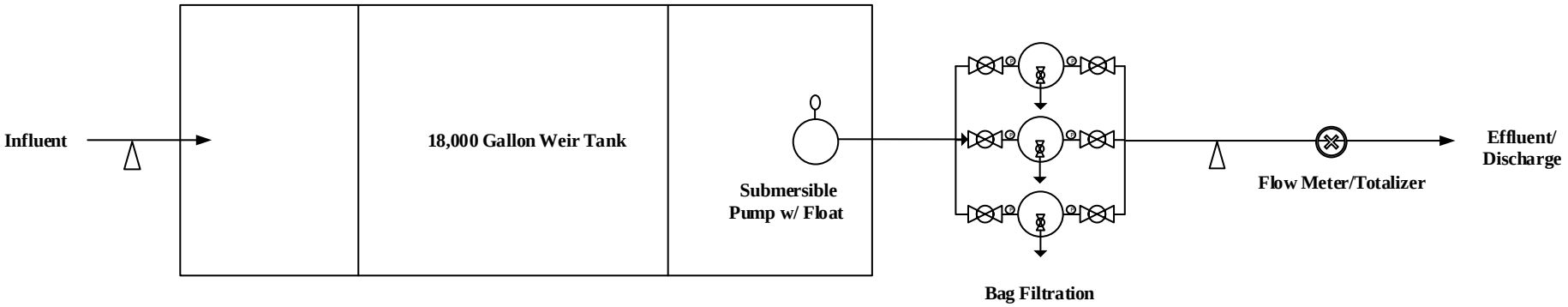
Service Laterals
- Combined Wastewater, In
- Stormwater
- Sewage
- Abandoned

Force Mains
- Combined Wastewater
- Sewage
- Storm Runoff

MWRA Mains
- Abandoned
- In Service

Underground Structures
- Stormwater
- Sewage
- Combined Sewage

Zoom Three Paved Surfaces
- Paved Roads
- Other Paved Surface
- Bridges
- Public Footpath



Key:

Piping/Hose	⟶
Sample Port	▷
Ball Valve	⊗
Butterfly Valve	⋈
Pressure Gauge	ⓘ
Contingency	— —

Notes:

1.) Figure is not to scale
2.) System rated for 100 GPM

Lockwood Remediation Technologies, LLC
89 Crawford Street
Leominster, MA 01453
Office: 774-450-7177

DESIGNED BY: LRT **DRAWN BY:** JHJ

CHECKED BY: **DATE:**

Water Treatment System Schematic

810 Main Street
Cambridge, MA

PROJECT No. 2-2064

FIGURE No. 3

APPENDIX A

NOTICE OF INTENT FORM

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

A. General site information:

<table>
<tr><td rowspan="4">1. Name of site:
Cambridge Brands Inc.</td><td colspan="3">Site address: 810
Street: Main Street</td></tr>
<tr><td>City: Cambridge</td><td>State: MA</td><td>Zip: 02139</td></tr>
<tr><td rowspan="4">2. Site owner
Cambridge Brands Inc.

Owner is (check one): ☐ Federal ☐ State/Tribal ■ Private
☐ Other; if so, specify:</td><td colspan="3">Contact Person: Paula Yetman</td></tr>
<tr><td colspan="2">Telephone: 617-441-1241</td><td>Email: pyetman@tootsie-roll.com</td></tr>
<tr><td colspan="3">Mailing address: 810
Street: Main Street</td></tr>
<tr><td>City: Cambridge</td><td>State: MA</td><td>Zip: 02139</td></tr>
<tr><td rowspan="4">3. Site operator, if different than owner
Columbia Construction Co.</td><td colspan="3">Contact Person: Vin Martiny</td></tr>
<tr><td colspan="2">Telephone: 617-593-4613</td><td>Email: vmartiny@columbiacc.com</td></tr>
<tr><td colspan="3">Mailing address:
Street: 100 Riverpark Drive</td></tr>
<tr><td>City: North Reading</td><td>State: MA</td><td>Zip: 01864</td></tr>
<tr><td>4. NPDES permit number assigned by EPA:

NPDES permit is (check all that apply: ☐ RGP ☐ DGP ☐ CGP
☐ MSGP ☐ Individual NPDES permit ☐ Other; if so, specify:</td><td colspan="3">5. Other regulatory program(s) that apply to the site (check all that apply):
☐ MA Chapter 21e; list RTN(s):
☐ NH Groundwater Management Permit or Groundwater Release Detection Permit:
☐ CERCLA
☐ UIC Program
☐ POTW Pretreatment
☐ CWA Section 404</td></tr>
</table>

B. Receiving water information:

1. Name of receiving water(s):	Waterbody identification of receiving water(s):	Classification of receiving water(s):
Charles River	MA72-38	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: There is protected open space within a 0.5-mile radius of the site. There are five schools within a 0.5-mile radius of the site.

3. Indicate if the receiving water(s) is listed in the State's Integrated List of Waters (i.e., CWA Section 303(d)). Include which designated uses are impaired, and any pollutants indicated. Also, indicate if a final TMDL is available for any of the indicated pollutants. For more information, contact the appropriate State as noted in Part 4.6 of the RGP. Yes, listed in 303(d). Impairments include flow regime modification, sediment screening value exceedence, chlorophyll-a (TMDL 33826), combined

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.	18.87 MGD - See Appendix C
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.	88.36 - See Appendix C

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: 08/17/2020

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: sediment	
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, near the intersection of Memorial Drive and Massachusetts Avenue (D08OF0010)	Outfall location(s): (Latitude, Longitude) Lat: 42°21'26.5"N Long: 71°05'28.7"W
Discharges enter the receiving water(s) via (check any that apply): ☐ Direct discharge to the receiving water ■ Indirect discharge, if so, specify: Effluent will enter an existing storm water drainage system that discharges into the Charles River ☐ 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: Upon approval of the RGP, the City of Cambridge will require a submittal of a Permit to Dewater application to the Cambridge DPW. A 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): 10/2020 to 4/2021 Indicate if the discharge is expected to occur over a duration of: ■ less than 12 months ☐ 12 months or more ☐ is an emergency discharge	
Has the operator attached a site plan in accordance with the instructions in D, above? (check one): ■ Yes ☐ No	

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

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

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

4. Influent and Effluent Characteristics

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
A. Inorganics									
Ammonia	✔		2	TM	50	ND	ND	Report mg/L	---
Chloride		✔	2	4500CLE-	1	530,000	530,000	Report µg/l	---
Total Residual Chlorine	✔		2	4500CIG-	50	ND	ND	0.2 mg/L	
Total Suspended Solids	✔		2	2540D-11	5	ND	ND	30 mg/L	---
Antimony		✔	2	200.8	0.5	2	2	206 µg/L	
Arsenic	✔		2	200.8	0.5	ND	ND	104 µg/L	
Cadmium	✔		2	200.8	0.1	ND	ND	10.2 µg/L	
Chromium III		✔	2	200.8	10	ND	ND	323 µg/L	
Chromium VI		✔	2	7196A	10	ND	ND	323 µg/L	
Copper		✔	2	200.8	0.0001	6.8	6.65	242 µg/L	
Iron		✔	2	200.8	0.05	59	58.5	5,000 µg/L	
Lead		✔	2	200.8	0.0001	0.44	0.44	160 µg/L	
Mercury	✔		2	SW7470/E	0.2	ND	ND	0.739 µg/L	
Nickel		✔	2	200.8	0.0001	1.6	1.5	1,450 µg/L	
Selenium		✔	2	200.8	0.5	8.4	8.35	235.8 µg/L	
Silver	✔		2	200.8	0.1	ND	ND	35.1 µg/L	
Zinc		✔	2	200.8	0.001	66	59.5	420 µg/L	
Cyanide		✔	2	OIA-1677-	0.005	11	11	178 mg/L	
B. Non-Halogenated VOCs									
Total BTEX	✔		2	Multiple	NA	ND	ND	100 µg/L	---
Benzene	✔		2	624.1	1	ND	ND	5.0 µg/L	---
1,4 Dioxane	✔		2	EPA522	0.2	ND	ND	200 µg/L	---
Acetone	✔		2	624.1	0.01	ND	ND	7.97 mg/L	---
Phenol	✔		2	625.1	1	ND	ND	1,080 µg/L	

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
C. Halogenated VOCs									
Carbon Tetrachloride	✔		2	624.1	1	ND	ND	4.4 µg/L	
1,2 Dichlorobenzene	✔		2	624.1	1	ND	ND	600 µg/L	---
1,3 Dichlorobenzene	✔		2	624.1	1	ND	ND	320 µg/L	---
1,4 Dichlorobenzene	✔		2	624.1	1	ND	ND	5.0 µg/L	---
Total dichlorobenzene	✔		2	624.1	3	ND	ND	763 µg/L in NH	---
1,1 Dichloroethane	✔		2	624.1	1	ND	ND	70 µg/L	---
1,2 Dichloroethane	✔		2	624.1	1	ND	ND	5.0 µg/L	---
1,1 Dichloroethylene	✔		2	624.1	0.5	ND	ND	3.2 µg/L	---
Ethylene Dibromide	✔		2	624.1	0.02	ND	ND	0.05 µg/L	---
Methylene Chloride	✔		2	624.1	1	ND	ND	4.6 µg/L	---
1,1,1 Trichloroethane	✔		2	624.1	1	ND	ND	200 µg/L	---
1,1,2 Trichloroethane	✔		2	624.1	1	ND	ND	5.0 µg/L	---
Trichloroethylene	✔		2	624.1	1	ND	ND	5.0 µg/L	---
Tetrachloroethylene	✔		2	624.1	1	ND	ND	5.0 µg/L	
cis-1,2 Dichloroethylene	✔		2	624.1	1	ND	ND	70 µg/L	---
Vinyl Chloride	✔		2	624.1	1	ND	ND	2.0 µg/L	---
D. Non-Halogenated SVOCs									
Total Phthalates	✔		2	625.1	26	ND	ND	190 µg/L	
Diethylhexyl phthalate	✔		2	625.1	5	ND	ND	101 µg/L	
Total Group I PAHs	✔		2	625.1	7	ND	ND	1.0 µg/L	---
Benzo(a)anthracene	✔		2	625.1	1	ND	ND	As Total PAHs	
Benzo(a)pyrene	✔		2	625.1	1	ND	ND		
Benzo(b)fluoranthene	✔		2	625.1	1	ND	ND		
Benzo(k)fluoranthene	✔		2	625.1	1	ND	ND		
Chrysene	✔		2	625.1	1	ND	ND		
Dibenzo(a,h)anthracene	✔		2	625.1	1	ND	ND		
Indeno(1,2,3-cd)pyrene	✔		2	625.1	1	ND	ND		

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
Total Group II PAHs	✔		2	625.1	8	ND	ND	100 µg/L	---
Naphthalene	✔		2	625.1	1	ND	ND	20 µg/L	---
E. Halogenated SVOCs									
Total PCBs	✔		2	608.3	1.8	ND	ND	0.000064 µg/L	---
Pentachlorophenol	✔		2		5	ND	ND	1.0 µg/L	---
F. Fuels Parameters									
Total Petroleum Hydrocarbons	✔		0	NA	NA	NA	NA	5.0 mg/L	---
Ethanol	✔		0	NA	NA	NA	NA	Report mg/L	---
Methyl-tert-Butyl Ether	✔		2					70 µg/L	
tert-Butyl Alcohol	✔		0	NA	NA	NA	NA	120 µg/L in MA 40 µg/L in NH	---
tert-Amyl Methyl Ether	✔		0	NA	NA	NA	NA	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		✔	2	200.8		270,000	260,000		
pH		✔	2			7.06	7.06		

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:

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

Water from construction dewatering activities will be pumped to a weir tank for primary settling. From the weir tank water will be pumped through a triple bag filter skid with 5 micron bag filtration. Prior to discharge, treated water will be monitored with a flow meter/ totalizator.

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:

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: Bag filters Is use of a flow meter feasible? (check one): ■ Yes ☐ No, if so, provide justification:	150
Provide the proposed maximum effluent flow in gpm.	150
Provide the average effluent flow in gpm.	75
If Activity Category IV applies, indicate the estimated total volume of water that will be discharged:	

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:
Not Applicable

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

Information is provided in Appendix G.

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

I. Supplemental information

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

Appendix B includes the Massachusetts Category 5 Waters listing for the Charles River.
Appendix C includes calculations for the dilution factor.
Appendix D includes the analytical laboratory data collected for the influent and effluent water.
Appendix E includes municipal dewatering information..
Appendix F includes correspondence from the National Oceanic and Atmospheric Administration and the US Fish and Wildlife Service.
Appendix G includes a list of Historic Places in Cambridge, Massachusetts

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

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

J. Certification requirement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	
BMPP certification statement: A BMPP meeting the requirements of this general permit will be developed and implemented upon initiation of discharge.	
Notification provided to the appropriate State, including a copy of this NOI, if required.	Check one: Yes ■ No ☐
Notification provided to the municipality in which the discharge is located, including a copy of this NOI, if requested.	Check one: Yes ■ No ☐
Notification provided to the owner of a private or municipal storm sewer system, if such system is used for site discharges, including a copy of this NOI, if requested.	Check one: Yes ■ No ☐ NA ☐
Permission obtained from the owner of a private or municipal storm sewer system, if such system is used for site discharges. If yes, attach additional conditions. If no, attach explanation and timeframe for obtaining permission.	Check one: Yes ■ No ☐ NA ☐
Notification provided to the owner/operator of the area associated with activities covered by an additional discharge permit(s). Additional discharge permit is (check one): ☐ RGP ☐ DGP ☐ CGP ☐ MSGP ☐ Individual NPDES permit ☐ Other; if so, specify:	Check one: Yes ☐ No ☐ NA ■
Signature: 	Date: 8/21/20
Print Name and Title: Vin Martiny Project Manager Columbia Construction Co.	

APPENDIX B

MASSACHUSETTS CATEGORY 5 WATERS AND SITE ASSESSMENT MAP

MassDEP - Bureau of Waste Site Cleanup

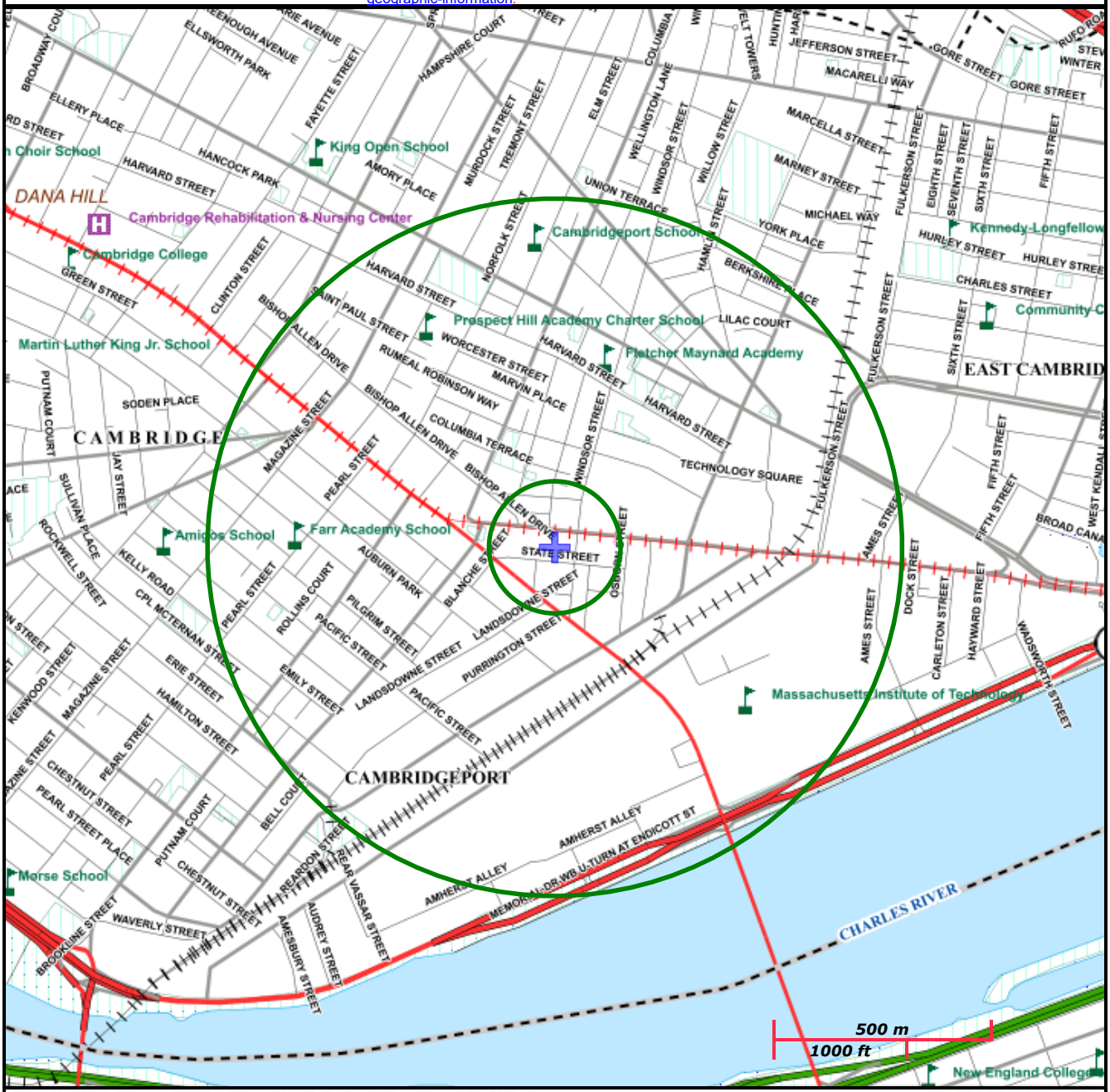
Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

Site Information:
810 MAIN STREET
810 MAIN STREET CAMBRIDGE, MA

NAD83 UTM Meters:
4692199mN , 327290mE (Zone: 19)
August 6, 2020

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.

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

Water Body	Segment ID	Description	Size	Units	Impairment	EPA TMDL No.
Charles River	MA72-36	From Watertown Dam (NATID: MA00456), Watertown to the Boston University Bridge, Boston/Cambridge (formerly part of segment MA72-08).	6.10	Miles	(Fish Passage Barrier*)	
					(Flow Regime Modification*)	
					(Non-Native Aquatic Plants*)	
					Chlorophyll-a	33826
					DDT in Fish Tissue	
					Dissolved Oxygen	
					Escherichia Coli (E. Coli)	32371
					Fish Bioassessments	
					Harmful Algal Blooms	33826
					Nutrient/Eutrophication Biological Indicators	33826
					Oil and Grease	
					PCBs In Fish Tissue	
					pH, High	
					Phosphorus, Total	33826
					Sediment Bioassay (Acute Toxicity Freshwater)	
					Transparency / Clarity	33826
					Unspecified Metals in Sediment	
Charles River	MA72-38	From Boston University Bridge, Boston/Cambridge to mouth at the New Charles River Dam (NATID: MA01092), Boston (formerly part of segment MA72-08).	3.10	Miles	(Flow Regime Modification*)	
					Cause Unknown (Sediment Screening Value (Exceedence))	
					Chlorophyll-a	33826
					Combined Biota/Habitat Bioassessments	
					DDT in Fish Tissue	
					Dissolved Oxygen	
					Dissolved Oxygen Supersaturation	33826
					Escherichia Coli (E. Coli)	32371
					Harmful Algal Blooms	33826
					Nutrient/Eutrophication Biological Indicators	33826
					Odor	33826
					Oil and Grease	
					PCBs In Fish Tissue	
					Phosphorus, Total	33826
					Salinity	
					Temperature	
					Transparency / Clarity	33826
Chicken Brook	MA72-34	Source, outlet Waseeka Sanctuary Pond, Holliston to mouth at confluence with the Charles River, Medway.	7.40	Miles	Escherichia Coli (E. Coli)	
Crystal Lake	MA72030	Newton.	27.00	Acres	Harmful Algal Blooms	

APPENDIX C

CHARLES RIVER DILUTION CALCULATIONS

Project 810 Main Street
Location Cambridge, Massachusetts
Subject Dilution Factor Calculations
Calculated By S. Ring Date 8/12/2020
Checked By S. Slater Date 8/12/2020

P:\4500s\4511.00\Source Files\RGP NOI Application\App C - Receiving Water Calculations\20200812 Dilution Factor.docx

PURPOSE:
To calculate the dilution factor (DF) in a potential discharge from on-site construction dewatering activities.

METHOD:

$$DF = (Qd + Qs)/Qd$$

Where: DF = Dilution Factor
Qd = Design flow rate of the discharge in million gallons per day (MGD)
Qs = Receiving water 7Q10 flow (MGD) where 7Q10 is the minimum flow for 7 consecutive days with a recurrence interval of 10 years

GIVEN:
1.0 gpm = 0.00144 MGD
1.0 cfs = 0.64632 MGD
Qd = 150 gpm = 0.216 MGD
Qs = 29.2 cfs = 18.87 MGD of flow into the Charles River [Reference 1]

CALCULATION:

$$DF = (0.216 \text{ MGD} + 18.87 \text{ MGD}) / 0.216 \text{ MGD}$$

DF = 88.36

RESULTS:

The resulting dilution factor to be used when discharging to the Charles River is 88.36.

REFERENCES:

[1] StreamStats Report.

Accessed online: http://streamstatsags.usgs.gov/ss/ (Refer to Reference 1)

I. Dilution Factor Calculation Method

A. 7Q10

Refer to Appendix V for determining critical low flow; must be approved by State before use in calculations.

B. Dilution Factor

Calculated as follows:

$$Df = \frac{Q_R + Q_P}{Q_P}$$

Q_R = 7Q10 in MGD

Q_P = Discharge flow, in MGD

II. Effluent Limitation Calculation Method

A. Calculate Water Quality Criterion:

Step 1. Downstream hardness, calculated as follows:

$$C_r = \frac{Q_d C_d + Q_s C_s}{Q_r}$$

C_r = Downstream hardness in mg/L

Q_d = Discharge flow in MGD

C_d = Discharge hardness in mg/L

Q_s = Upstream flow (7Q10) in MGD

C_s = Upstream (receiving water) hardness in mg/L

Q_r = Downstream receiving water flow in MGD

Step 2. Total recoverable water quality criteria for hardness-dependent metals, calculated as follows:

Total Recoverable Criteria = $\exp\{m_c [\ln(h)] + b_c\}$

m_c = Pollutant-specific coefficient (m_a for silver)

b_c = Pollutant-specific coefficient (b_a for silver)

ln = Natural logarithm

h = Hardness calculated in Step 1

Step 3. Total recoverable water quality criteria for non-hardness-dependent metals, calculated as follows:

$$\text{WQC in µg/L} = \frac{\text{dissolved WQC in µg/L}}{\text{dissolved to total recoverable factor}}$$

B. Calculate WQBEL:

Step 1. WQBEL calculated as follows for parameter sampled in and detected in the receiving water:

$$C_d = \frac{Q_r C_r - Q_s C_s}{Q_d}$$

C_r = Water quality criterion in µg/L

Q_d = Discharge flow in MGD

C_d = WQBEL in µg/L
Q_s = Upstream flow (7Q10) in MGD
C_s = Ustream (receiving water) concentration in µg/L
Q_r = Downstream receiving water flow in MGD

Step 2. WQBEL calculated as follows for parameter not sampled in or not detected in receiving water:

$$C_d = (Q_r/Q_d) \times C_r$$

C_r = Water quality criterion in µg/L
Q_d = Discharge flow in MGD
Q_r = Downstream receiving water flow in MGD

C. Determine if a WQBEL applies:

Step 1. For parameter sampled in and detected in receiving water, downstream concentrations calculated as follows:

$$C_r = \frac{Q_d C_d + Q_s C_s}{Q_r}$$

C_r = Downstream concentration in µg/L
Q_d = Discharge flow in MGD
C_d = Influent concentration in µg/L
Q_s = Upstream flow (7Q10) in MGD
C_s = Upstream (receiving water) concentration in µg/L
Q_r = Downstream receiving water flow in MGD

The WQBEL applies if:

1) the projected downstream concentration calculated in accordance with Step 1, above, and the discharge concentration of a parameter are greater than the WQC calculated for that parameter in accordance with II.A, above

AND

2) the WQBEL determined for that parameter in accordance with II.B, above, is less than the TBEL in Part 2.1.1 of the RGP for that parameter. Otherwise, the TBEL in Part 2.1.1

of the RGP for that parameter applies.

Step 2. For a parameter not sampled in or not detected in receiving water, the WQBEL applies if:

1) the discharge concentration of a parameter is greater than the WQBEL determined for that parameter in accordance with II.A or II.B, above;

AND

2) the WQBEL determined for that parameter in accordance with II.A or II.B, above is less than the TBEL in Part 2.1.1 of the RGP for that parameter. Otherwise, the TBEL in

Part 2.1.1 of the RGP for that parameter applies.

Enter number values in green boxes below

Enter values in the units specified

↓

18.87	Q_R = Enter upstream flow in **MGD**
0.216	Q_P = Enter discharge flow in **MGD**
19.086	Downstream 7Q10

Enter a dilution factor, if other than zero

↓

0

Enter values in the units specified

↓

270	C_d = Enter influent hardness in **mg/L** $CaCO_3$
130	C_s = Enter receiving water hardness in **mg/L** $CaCO_3$

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

↓

8.9	pH in **Standard Units**
	Temperature in **°C**
0	Ammonia in **mg/L**
130	Hardness in **mg/L** $CaCO_3$
0	Salinity in **ppt**
0	Antimony in **µg/L**
0.99	Arsenic in **µg/L**
0	Cadmium in **µg/L**
0	Chromium III in **µg/L**
0	Chromium VI in **µg/L**
4	Copper in **µg/L**
550	Iron in **µg/L**
3.4	Lead in **µg/L**
0	Mercury in **µg/L**
1.4	Nickel in **µg/L**
0	Selenium in **µg/L**
0	Silver in **µg/L**
200	Zinc in **µg/L**

Enter **influent** concentrations in the units specified

↓

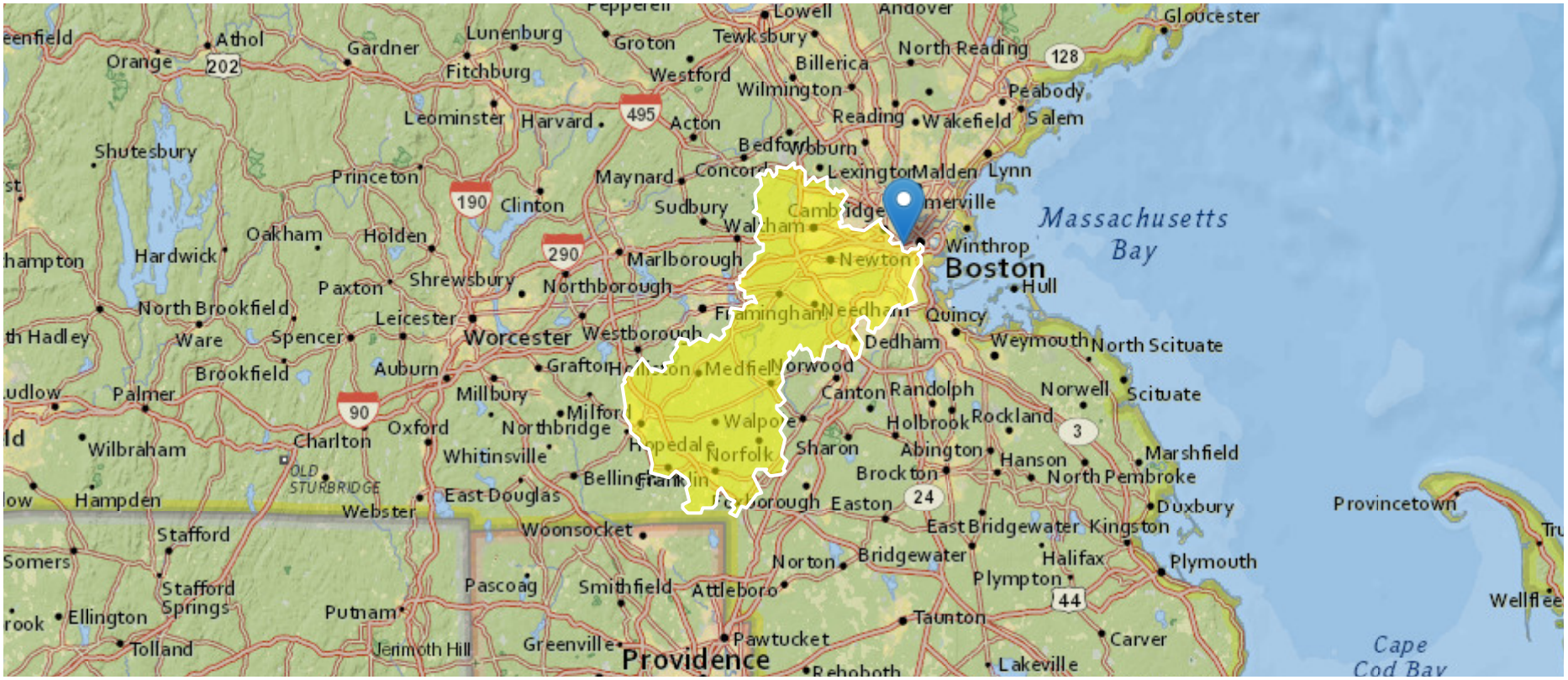
0	TRC in **µg/L**
0	Ammonia in **mg/L**
2	Antimony in **µg/L**
0	Arsenic in **µg/L**
0	Cadmium in **µg/L**
0	Chromium III in **µg/L**
0	Chromium VI in **µg/L**
6.8	Copper in **µg/L**
59	Iron in **µg/L**
0.44	Lead in **µg/L**
0	Mercury in **µg/L**
1.6	Nickel in **µg/L**
8.4	Selenium in **µg/L**
0	Silver in **µg/L**
66	Zinc in **µg/L**
11	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	88.4					
A. Inorganics	TBEL applies if bolded		WQBEL applies if bolded		Compliance Level applies if shown	
Ammonia	**Report**	mg/L	---			
Chloride	**Report**	µg/L	---			
Total Residual Chlorine	**0.2**	mg/L	972	µg/L	---	µg/L
Total Suspended Solids	**30**	mg/L	---			
Antimony	**206**	µg/L	56551	µg/L		
Arsenic	**104**	µg/L	797	µg/L		
Cadmium	**10.2**	µg/L	0.3317	µg/L		
Chromium III	**323**	µg/L	9534.4	µg/L		
Chromium VI	**323**	µg/L	1010.4	µg/L		
Copper	**242**	µg/L	692.8	µg/L		
Iron	**5000**	µg/L	40313	µg/L		
Lead	**160**	µg/L	101.68	µg/L		
Mercury	**0.739**	µg/L	80.04	µg/L		
Nickel	**1450**	µg/L	5691.6	µg/L		
Selenium	**235.8**	µg/L	441.8	µg/L		
Silver	**35.1**	µg/L	536.2	µg/L		
Zinc	**420**	µg/L	151.2	µg/L		
Cyanide	**178**	mg/L	459.5	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	26508	µg/L		
C. Halogenated VOCs						
Carbon Tetrachloride	**4.4**	µg/L	141.4	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	291.6	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	194.4	µg/L		

Total Group I Polycyclic Aromatic Hydrocarbons	**1.0**	µg/L	---			
Benzo(a)anthracene	**1.0**	µg/L	0.3358	µg/L	---	µg/L
Benzo(a)pyrene	**1.0**	µg/L	0.3358	µg/L	---	µg/L
Benzo(b)fluoranthene	**1.0**	µg/L	0.3358	µg/L	---	µg/L
Benzo(k)fluoranthene	**1.0**	µg/L	0.3358	µg/L	---	µg/L
Chrysene	**1.0**	µg/L	0.3358	µg/L	---	µg/L
Dibenzo(a,h)anthracene	**1.0**	µg/L	0.3358	µg/L	---	µg/L
Indeno(1,2,3-cd)pyrene	**1.0**	µg/L	0.3358	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	1767	µg/L		
tert-Butyl Alcohol	**120**	µg/L	---			
tert-Amyl Methyl Ether	**90**	µg/L	---			

StreamStats Report

Region ID: MA
Workspace ID: MA20200812145046281000
Clicked Point (Latitude, Longitude): 42.35515, -71.09013
Time: 2020-08-12 10:51:03 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	307	square miles
ELEV	Mean Basin Elevation	192	feet
LC06STOR	Percentage of water bodies and wetlands determined from the NLCD 2006	12.27	percent
BSLDEM250	Mean basin slope computed from 1:250K DEM	2.341	percent
DRFTPERSTR	Area of stratified drift per unit of stream length	0.25	square mile per mile
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	0	dimensionless

Peak-Flow Statistics Parameters[Peak Statewide 2016 5156]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	307	square miles	0.16	512
ELEV	Mean Basin Elevation	192	feet	80.6	1948
LC06STOR	Percent Storage from NLCD2006	12.27	percent	0	32.3

Peak-Flow Statistics Flow Report[Peak Statewide 2016 5156]

PII: Prediction Interval-Lower, PIu: Prediction Interval-Upper, SEp: Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PII	PIu	SEp
2 Year Peak Flood	3300	ft^3/s	1680	6470	42.3
5 Year Peak Flood	5150	ft^3/s	2590	10200	43.4
10 Year Peak Flood	6540	ft^3/s	3220	13300	44.7
25 Year Peak Flood	8500	ft^3/s	4040	17900	47.1
50 Year Peak Flood	10100	ft^3/s	4660	21900	49.4
100 Year Peak Flood	11800	ft^3/s	5280	26400	51.8

Statistic	Value	Unit	PII	Plu	SEp
200 Year Peak Flood	13600	ft^3/s	5900	31300	54.1
500 Year Peak Flood	16100	ft^3/s	6670	38900	57.6

Peak-Flow Statistics Citations

Zarriello, P.J.,2017, Magnitude of flood flows at selected annual exceedance probabilities for streams in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2016–5156, 99 p. (https://dx.doi.org/10.3133/sir20165156)

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

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	307	square miles	1.61	149
BSLDEM250	Mean Basin Slope from 250K DEM	2.341	percent	0.32	24.6
DRFTPERSTR	Stratified Drift per Stream Length	0.25	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	57.3	ft^3/s
7 Day 10 Year Low Flow	29.2	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/)

Application Version: 4.4.0

Samantha Slater

From: Shannon Ring
Sent: Monday, August 17, 2020 11:58 AM
To: Samantha Slater
Subject: FW: 7Q10 Confirmation for RGP

I also just got this follow-up email.

Thanks,

Shannon Ring
Engineer

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D 978.577.1042 | M 978.870.7459 | 1 Technology Park Drive, Westford, MA 01886

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From: Ruan, Xiaodan (DEP) <xiaodan.ruan@state.ma.us>
Sent: Monday, August 17, 2020 11:57 AM
To: Shannon Ring <sring@sanbornhead.com>
Cc: Vakalopoulos, Catherine (DEP) <catherine.vakalopoulos@state.ma.us>
Subject: RE: 7Q10 Confirmation for RGP

Hi Shannon,

I want to provide some additional water quality information in assisting you in filling out the NOI.

Waterbody and ID: Charles River (MA72-38) within Charles River Watershed

Classification: B

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 "MA72-38" to see the causes of impairments.

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

Thanks,
Xiaodan

From: Ruan, Xiaodan (DEP)
Sent: Monday, August 17, 2020 11:17 AM
To: sring@sanbornhead.com
Cc: Vakalopoulos, Catherine (DEP) <catherine.vakalopoulos@mass.gov>
Subject: RE: 7Q10 Confirmation for RGP

Hi Shannon,

I can confirm that the 7Q10 of 18.87 MGD and DF of 88.36 with a design flow of 0.216 MGD for the project at 810 Main St, Cambridge, MA are correct.

I see that you have already included water quality information in your email.

Also, if this is not a *current* MCP site, then in addition to submitting the NOI to EPA, you need to apply with MassDEP and submit a $500 fee (unless fee exempt, e.g. municipality). If you have submitted RGP applications to MassDEP before, please note that process has been changed June 30, 2020. MassDEP has started using ePLACE, an online application submittal process where you will set up a user ID and be able to submit NOIs for various projects as well as pay by credit card. The instructions are located on this page: https://www.mass.gov/how-to/wm-15-npdes-general-permit-notice-of-intent. If this is your first time using ePLACE, technical assistant information is available on the front page of the ePLACE application webpage.

Please let me know if you have any questions.

Thanks,
Xiaodan

From: Vakalopoulos, Catherine (DEP) <catherine.vakalopoulos@mass.gov>
Sent: Friday, August 14, 2020 9:18 PM
To: Ruan, Xiaodan (DEP) <xiaodan.ruan@mass.gov>
Cc: sring@sanbornhead.com
Subject: Fw: 7Q10 Confirmation for RGP

Hi Xiaodan,
Thanks for looking at this!
Cathy

Cathy Vakalopoulos, Massachusetts Department of Environmental Protection
1 Winter St., Boston, MA 02108, 617-348-4026

From: Shannon Ring <sring@sanbornhead.com>
Sent: Thursday, August 13, 2020 3:35:13 PM
To: Vakalopoulos, Catherine (DEP)
Cc: Samantha Slater
Subject: 7Q10 Confirmation for RGP

Good morning,

I would like to confirm the following 7Q10 value for a RGP project located in Cambridge, MA.

Using StreamStats, I selected the site, which drains to the outlet within the Charles River.

Site Address: 810 Main St, Cambridge, MA
Type of Discharge: Via drain outlet in the Charles River with the approximate latitude and longitude indicated below.
Discharge Location ID: MA72-38
Stormwater Outfall ID: D08OF0010

Approximate Lat/Long:
Lat: 42°21'26.5"N Long: 71°05'28.7"W

Design Discharge Flow from site: 150 gpm = 0.216 MGD
Upstream StreamStats Generated, 7Q10: 29.2 cfs = 18.87 MGD

Dilution Factor: DF = 88.36

I have attached a draft calculation sheet which was used to arrive at the above dilution factor.

Please let me know if you require any further information.

Shannon Ring
Engineer

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APPENDIX D

ANALYTICAL DATA REPORTS

Eastern Analytical, Inc.
professional laboratory and drilling services

Samantha Slater
Sanborn, Head & Associates, Inc.
98 N. Washington Street, Suite 101
Boston , MA 02114

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 213555
Client Identification: Cambridge Brands, Inc. | 4511.00
Date Received: 7/28/2020

Dear Ms. Slater :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.easternanalytical.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:
Solid samples are reported on a dry weight basis, unless otherwise noted
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012) and New York (12072).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample (s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Michael Swett for
Lorraine Olashaw, Lab Director

8/3/20
Date

37
# of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

EAI ID#: **213555**

Client: **Sanborn, Head & Associates, Inc.**

Client Designation: **Cambridge Brands, Inc. | 4511.00**

Temperature upon receipt (°C): 2.0 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
213555.01	SH-102W-F	7/28/20	7/28/20	aqueous		Adheres to Sample Acceptance Policy
213555.02	SH-102W-UF	7/28/20	7/28/20	aqueous		Adheres to Sample Acceptance Policy
213555.03	SW	7/28/20	7/28/20	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitability, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.

Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.

All results contained in this report relate only to the above listed samples.

References include:

1) EPA 600/4-79-020, 1983

2) Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd Edition or noted Revision year.

3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB

4) Hach Water Analysis Handbook, 4th edition, 1992

LABORATORY REPORT

EAI ID#: **213555**

Client: **Sanborn, Head & Associates, Inc.**

Client Designation: **Cambridge Brands, Inc. | 4511.00**

Sample ID:	SH-102W-F	SH-102W-UF
Lab Sample ID:	213555.01	213555.02
Matrix:	aqueous	aqueous
Date Sampled:	7/28/20	7/28/20
Date Received:	7/28/20	7/28/20
Units:	ug/L	ug/L
Date of Analysis:	7/29/20	7/29/20
Analyst:	SG	SG
Method:	624.1	624.1
Dilution Factor:	1	1
Vinyl chloride	< 1	< 1
1,1-Dichloroethene	< 0.5	< 0.5
Methylene chloride	< 1	< 1
Methyl-t-butyl ether(MTBE)	< 1	< 1
1,1-Dichloroethane	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1
Carbon tetrachloride	< 1	< 1
Benzene	< 1	< 1
1,2-Dichloroethane	< 1	< 1
Trichloroethene	< 1	< 1
Toluene	< 1	< 1
1,1,2-Trichloroethane	< 1	< 1
Tetrachloroethene	< 1	< 1
Ethylbenzene	< 1	< 1
mp-Xylene	< 1	< 1
o-Xylene	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1
4-Bromofluorobenzene (surr)	**100 %R**	**101 %R**
1,2-Dichlorobenzene-d4 (surr)	**100 %R**	**100 %R**
Toluene-d8 (surr)	**97 %R**	**97 %R**

RGP

QC REPORT

EAI ID#: **213555**

Client: **Sanborn, Head & Associates, Inc.**

Batch ID: 637316-22709/A072920V6241

Client Designation: **Cambridge Brands, Inc. | 4511.00**

Parameter Name	Blank (RL)	Blank (MDL)	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Chloromethane	< 2	< .876	19 (95 %R)	19 (97 %R) (1 RPD)	7/29/2020	ug/L	1 - 205	60	624.1
Vinyl chloride	< 1	< .953	21 (106 %R)	21 (106 %R) (0 RPD)	7/29/2020	ug/L	5 - 195	66	624.1
Bromomethane	< 2	< .554	23 (116 %R)	22 (112 %R) (4 RPD)	7/29/2020	ug/L	15 - 185	61	624.1
Chloroethane	< 2	< .503	21 (106 %R)	21 (106 %R) (0 RPD)	7/29/2020	ug/L	40 - 160	78	624.1
Trichlorofluoromethane	< 2	< .375	21 (105 %R)	21 (105 %R) (0 RPD)	7/29/2020	ug/L	50 - 150	84	624.1
Trichlorotrifluoroethane	< 2	< 1.645	22 (109 %R)	22 (109 %R) (0 RPD)	7/29/2020	ug/L	33 - 167	20	624.1
Acrolein	< 50	< 5.45	< 50 (96 %R)	< 50 (98 %R) (2 RPD)	7/29/2020	ug/L	60 - 140	60	624.1
Acetone	< 10	< 5.73	20 (99 %R)	20 (101 %R) (2 RPD)	7/29/2020	ug/L	40 - 160	20	624.1
1,1-Dichloroethene	< 0.5	< .37	21 (105 %R)	21 (105 %R) (0 RPD)	7/29/2020	ug/L	50 - 150	32	624.1
Methylene chloride	< 1	< 1.4	20 (101 %R)	20 (102 %R) (0 RPD)	7/29/2020	ug/L	60 - 140	28	624.1
Acrylonitrile	< 50	< .705	< 50 (101 %R)	< 50 (103 %R) (2 RPD)	7/29/2020	ug/L	60 - 140	60	624.1
Methyl-t-butyl ether(MTBE)	< 1	< .519	22 (108 %R)	22 (109 %R) (1 RPD)	7/29/2020	ug/L	70 - 130	20	624.1
trans-1,2-Dichloroethene	< 1	< .298	22 (109 %R)	22 (109 %R) (0 RPD)	7/29/2020	ug/L	70 - 130	45	624.1
Vinyl acetate	< 10	< .557	22 (111 %R)	22 (111 %R) (0 RPD)	7/29/2020	ug/L	40 - 160	20	624.1
1,1-Dichloroethane	< 1	< .274	21 (107 %R)	21 (107 %R) (0 RPD)	7/29/2020	ug/L	70 - 130	40	624.1
cis-1,2-Dichloroethene	< 1	< .238	21 (106 %R)	21 (105 %R) (0 RPD)	7/29/2020	ug/L	70 - 130	20	624.1
2-Butanone(MEK)	< 10	< 2.642	21 (105 %R)	21 (107 %R) (2 RPD)	7/29/2020	ug/L	40 - 160	20	624.1
Chloroform	< 1	< .155	21 (105 %R)	21 (105 %R) (0 RPD)	7/29/2020	ug/L	70 - 135	54	624.1
1,1,1-Trichloroethane	< 1	< .227	24 (121 %R)	24 (121 %R) (0 RPD)	7/29/2020	ug/L	70 - 130	36	624.1
Carbon tetrachloride	< 1	< .564	22 (112 %R)	22 (112 %R) (0 RPD)	7/29/2020	ug/L	70 - 130	41	624.1
Benzene	< 1	< .312	22 (110 %R)	22 (109 %R) (0 RPD)	7/29/2020	ug/L	65 - 135	61	624.1
1,2-Dichloroethane	< 1	< .21	21 (106 %R)	21 (106 %R) (1 RPD)	7/29/2020	ug/L	70 - 130	49	624.1
Trichloroethene	< 1	< .359	23 (114 %R)	23 (113 %R) (0 RPD)	7/29/2020	ug/L	65 - 135	48	624.1
1,2-Dichloropropane	< 1	< .285	22 (108 %R)	22 (108 %R) (0 RPD)	7/29/2020	ug/L	35 - 165	55	624.1
Bromodichloromethane	< 0.5	< .345	23 (113 %R)	23 (113 %R) (0 RPD)	7/29/2020	ug/L	65 - 135	56	624.1
2-Chloroethylvinylether	< 2	< .493	23 (113 %R)	23 (114 %R) (1 RPD)	7/29/2020	ug/L	1 - 225	71	624.1
4-Methyl-2-pentanone(MIBK)	< 10	< 5.64	22 (110 %R)	23 (113 %R) (2 RPD)	7/29/2020	ug/L	40 - 160	20	624.1
cis-1,3-Dichloropropene	< 0.5	< .409	22 (111 %R)	22 (111 %R) (1 RPD)	7/29/2020	ug/L	25 - 175	58	624.1
Toluene	< 1	< .399	22 (110 %R)	22 (108 %R) (2 RPD)	7/29/2020	ug/L	70 - 130	41	624.1
trans-1,3-Dichloropropene	< 0.5	< .207	22 (109 %R)	22 (108 %R) (1 RPD)	7/29/2020	ug/L	50 - 150	86	624.1
1,1,2-Trichloroethane	< 1	< .203	22 (110 %R)	22 (109 %R) (2 RPD)	7/29/2020	ug/L	70 - 130	45	624.1
2-Hexanone	< 10	< 5.335	22 (111 %R)	22 (110 %R) (1 RPD)	7/29/2020	ug/L	40 - 160	20	624.1
Tetrachloroethene	< 1	< .371	23 (113 %R)	22 (111 %R) (2 RPD)	7/29/2020	ug/L	70 - 130	39	624.1
Dibromochloromethane	< 1	< .468	20 (102 %R)	20 (101 %R) (1 RPD)	7/29/2020	ug/L	70 - 135	50	624.1
Chlorobenzene	< 1	< .247	22 (111 %R)	22 (110 %R) (1 RPD)	7/29/2020	ug/L	65 - 135	53	624.1
Ethylbenzene	< 1	< .475	23 (116 %R)	23 (113 %R) (2 RPD)	7/29/2020	ug/L	60 - 140	63	624.1
mp-Xylene	< 1	< .476	45 (114 %R)	45 (111 %R) (2 RPD)	7/29/2020	ug/L	70 - 130	20	624.1
o-Xylene	< 1	< .298	22 (110 %R)	22 (109 %R) (1 RPD)	7/29/2020	ug/L	70 - 130	20	624.1
Styrene	< 1	< .278	23 (113 %R)	22 (111 %R) (1 RPD)	7/29/2020	ug/L	70 - 130	20	624.1
Bromoform	< 2	< 1.014	22 (110 %R)	22 (108 %R) (2 RPD)	7/29/2020	ug/L	70 - 130	42	624.1
1,1,2,2-Tetrachloroethane	< 1	< .381	22 (109 %R)	21 (106 %R) (3 RPD)	7/29/2020	ug/L	60 - 140	61	624.1
1,3-Dichlorobenzene	< 1	< .426	22 (111 %R)	22 (108 %R) (3 RPD)	7/29/2020	ug/L	70 - 130	43	624.1
1,4-Dichlorobenzene	< 1	< .375	21 (107 %R)	21 (104 %R) (3 RPD)	7/29/2020	ug/L	65 - 135	57	624.1
1,2-Dichlorobenzene	< 1	< .218	22 (110 %R)	21 (106 %R) (3 RPD)	7/29/2020	ug/L	65 - 135	57	624.1
4-Bromofluorobenzene (surr)	100 %R		100 %R	101 %R	7/29/2020	% Rec	70 - 130		624.1
1,2-Dichlorobenzene-d4 (surr)	100 %R		99 %R	100 %R	7/29/2020	% Rec	70 - 130		624.1

QC REPORT

EAI ID#: **213555**

Client: **Sanborn, Head & Associates, Inc.**

Batch ID: 637316-22709/A072920V6241

Client Designation: **Cambridge Brands, Inc. | 4511.00**

Parameter Name	Blank (RL)	Blank (MDL)	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Toluene-d8 (surr)	97 %R		99 %R	98 %R	7/29/2020	% Rec	70 - 130		624.1

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/!Flagged analyte recoveries deviated from the QA/QC limits. Unless noted on the sample page, flagged analytes that exceed acceptance limits in the Quality Control sample do not impact the data.

LABORATORY REPORT

EAI ID#: **213555**

Client: **Sanborn, Head & Associates, Inc.**

Client Designation: **Cambridge Brands, Inc. | 4511.00**

Sample ID:	SH-102W-F	SH-102W-UF
Lab Sample ID:	213555.01	213555.02
Matrix:	aqueous	aqueous
Date Sampled:	7/28/20	7/28/20
Date Received:	7/28/20	7/28/20
Units:	ug/L	ug/L
Date of Extraction/Prep:	7/30/20	7/30/20
Date of Analysis:	7/30/20	7/30/20
Analyst:	JMR	JMR
Method:	625.1	625.1
Dilution Factor:	1	1
Phenol	< 1	< 1
Pentachlorophenol	< 5	< 5
Dimethylphthalate	< 1	< 1
Diethylphthalate	< 5	< 5
Di-n-butylphthalate	< 5	< 5
Butylbenzylphthalate	< 5	< 5
bis(2-Ethylhexyl)phthalate	< 5	< 5
Di-n-octylphthalate	< 5	< 5
Naphthalene	< 1	< 1
Acenaphthylene	< 1	< 1
Acenaphthene	< 1	< 1
Fluorene	< 1	< 1
Phenanthrene	< 1	< 1
Anthracene	< 1	< 1
Fluoranthene	< 1	< 1
Pyrene	< 1	< 1
Benzo[a]anthracene	< 1	< 1
Chrysene	< 1	< 1
Benzo[b]fluoranthene	< 1	< 1
Benzo[k]fluoranthene	< 1	< 1
Benzo[a]pyrene	< 1	< 1
Indeno[1,2,3-cd]pyrene	< 1	< 1
Dibenz[a,h]anthracene	< 1	< 1
Benzo[g,h,i]perylene	< 1	< 1
2-Fluorophenol (surr)	**25 %R**	**32 %R**
Phenol-d6 (surr)	**20 %R**	**24 %R**
2,4,6-Tribromophenol (surr)	**75 %R**	**81 %R**
Nitrobenzene-D5 (surr)	**47 %R**	**59 %R**
2-Fluorobiphenyl (surr)	**56 %R**	**67 %R**
p-Terphenyl-D14 (surr)	**78 %R**	**80 %R**

QC REPORT

EAI ID#: **213555**

Client: **Sanborn, Head & Associates, Inc.**

Batch ID: 637316-90387/A073020E6251

Client Designation: **Cambridge Brands, Inc. | 4511.00**

Parameter Name	Blank (RL)	Blank (MDL)	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
alpha-Terpineol	< 5	< .17	19 (75 %R)	19 (76 %R) (2 RPD)		ug/L	40 - 140	20	625.1
Phenol	< 1	< .12	15 (30 %R)	15 (30 %R) (1 RPD)		ug/L	5 - 120	64	625.1
2-Chlorophenol	< 1	< .2	33 (66 %R)	32 (65 %R) (1 RPD)		ug/L	23 - 134	61	625.1
2,4-Dichlorophenol	< 1	< .31	37 (73 %R)	38 (75 %R) (3 RPD)		ug/L	39 - 135	50	625.1
2,4,5-Trichlorophenol	< 1	< .33	38 (76 %R)	41 (81 %R) (7 RPD)		ug/L	30 - 130	20	625.1
2,4,6-Trichlorophenol	< 1	< .48	37 (74 %R)	40 (79 %R) (7 RPD)		ug/L	37 - 144	58	625.1
Pentachlorophenol	< 5	< 1.1	30 (60 %R)	37 (75 %R) (22 RPD)		ug/L	14 - 176	86	625.1
2-Nitrophenol	< 5	< .44	38 (76 %R)	38 (76 %R) (1 RPD)		ug/L	29 - 182	55	625.1
4-Nitrophenol	< 5	< .22	16 (31 %R)	17 (34 %R) (8 RPD)		ug/L	1 - 132	131	625.1
2,4-Dinitrophenol	< 10	< 1.5	< 10 (15 %R)	37 (74 %R) (131 RPD)		ug/L	1 - 191	132	625.1
2-Methylphenol	< 1	< .4	31 (63 %R)	31 (63 %R) (0 RPD)		ug/L	30 - 130	20	625.1
3/4-Methylphenol	< 1	< .42	31 (61 %R)	31 (62 %R) (2 RPD)		ug/L	30 - 130	20	625.1
2,4-Dimethylphenol	< 5	< 1.4	34 (68 %R)	34 (69 %R) (1 RPD)		ug/L	32 - 120	58	625.1
4-Chloro-3-methylphenol	< 1	< .26	37 (74 %R)	38 (77 %R) (4 RPD)		ug/L	22 - 147	73	625.1
4,6-Dinitro-2-methylphenol	< 5	< 3.3	32 (64 %R)	43 (85 %R) (29 RPD)		ug/L	1 - 181	203	625.1
N-Nitrosodimethylamine	< 1	< .11	12 (46 %R)	12 (46 %R) (1 RPD)		ug/L	15 - 140	20	625.1
n-Nitroso-di-n-propylamine	< 0.5	< .22	18 (72 %R)	18 (73 %R) (1 RPD)		ug/L	1 - 230	87	625.1
n-Nitrosodiphenylamine	< 1	< .068	20 (78 %R)	20 (82 %R) (5 RPD)		ug/L	40 - 140	20	625.1
bis(2-Chloroethyl)ether	< 1	< .11	17 (69 %R)	17 (68 %R) (2 RPD)		ug/L	12 - 158	108	625.1
bis(2-chloroisopropyl)ether	< 1	< .13	17 (67 %R)	16 (65 %R) (2 RPD)		ug/L	36 - 166	76	625.1
bis(2-Chloroethoxy)methane	< 1	< .2	19 (74 %R)	18 (72 %R) (3 RPD)		ug/L	33 - 184	54	625.1
1,3-Dichlorobenzene	< 1	< .15	16 (63 %R)	16 (62 %R) (1 RPD)		ug/L	40 - 140	20	625.1
Acetophenone	< 10	< 8.8	19 (74 %R)	19 (74 %R) (0 RPD)		ug/L	40 - 140	20	625.1
1,4-Dichlorobenzene	< 1	< .11	15 (62 %R)	15 (61 %R) (1 RPD)		ug/L	40 - 140	20	625.1
1,2-Dichlorobenzene	< 1	< .13	16 (64 %R)	16 (64 %R) (1 RPD)		ug/L	40 - 140	20	625.1
1,2,4-Trichlorobenzene	< 1	< .09	17 (69 %R)	17 (68 %R) (2 RPD)		ug/L	44 - 142	50	625.1
2-Chloronaphthalene	< 1	< .11	19 (74 %R)	19 (75 %R) (2 RPD)		ug/L	60 - 120	24	625.1
4-Chlorophenyl-phenylether	< 1	< .059	19 (77 %R)	20 (81 %R) (5 RPD)		ug/L	25 - 158	61	625.1
4-Bromophenyl-phenylether	< 1	< .14	20 (79 %R)	20 (82 %R) (3 RPD)		ug/L	53 - 127	43	625.1
Hexachloroethane	< 1	< .15	15 (61 %R)	15 (60 %R) (2 RPD)		ug/L	40 - 120	52	625.1
Hexachlorobutadiene	< 1	< .073	17 (68 %R)	17 (66 %R) (3 RPD)		ug/L	24 - 120	62	625.1
Hexachlorocyclopentadiene	< 5	< .21	16 (63 %R)	17 (67 %R) (6 RPD)		ug/L	15 - 140	20	625.1
Hexachlorobenzene	< 1	< .12	20 (78 %R)	20 (81 %R) (4 RPD)		ug/L	1 - 152	55	625.1
4-Chloroaniline	< 1	< .13	19 (77 %R)	20 (79 %R) (2 RPD)		ug/L	15 - 140	20	625.1
2,3-Dichloroaniline	< 1	< .11	19 (76 %R)	20 (79 %R) (4 RPD)		ug/L	40 - 140	20	625.1
2-Nitroaniline	< 5	< .18	19 (78 %R)	21 (83 %R) (7 RPD)		ug/L	40 - 140	20	625.1
3-Nitroaniline	< 5	< .13	20 (81 %R)	22 (87 %R) (7 RPD)		ug/L	40 - 140	20	625.1
4-Nitroaniline	< 5	< .23	20 (81 %R)	22 (88 %R) (8 RPD)		ug/L	40 - 140	20	625.1
Aniline	< 1	< .13	16 (65 %R)	17 (66 %R) (2 RPD)		ug/L	40 - 140	20	625.1
Benzyl alcohol	< 10	< .35	17 (67 %R)	17 (68 %R) (1 RPD)		ug/L	40 - 140	20	625.1
Nitrobenzene	< 1	< .21	18 (70 %R)	17 (70 %R) (1 RPD)		ug/L	35 - 180	62	625.1
Isophorone	< 1	< .16	18 (74 %R)	19 (74 %R) (1 RPD)		ug/L	21 - 196	93	625.1
2,4-Dinitrotoluene	< 2	< .14	21 (84 %R)	23 (90 %R) (7 RPD)		ug/L	39 - 139	42	625.1
2,6-Dinitrotoluene	< 2	< .14	21 (83 %R)	22 (87 %R) (5 RPD)		ug/L	50 - 158	48	625.1
Benzidine (estimated)	< 5	< .41	16 (65 %R)	16 (66 %R) (1 RPD)		ug/L	1 - 200	50	625.1
3,3'-Dichlorobenzidine	< 1	< .27	19 (74 %R)	19 (77 %R) (4 RPD)		ug/L	1 - 262	108	625.1

QC REPORT

EAI ID#: **213555**

Client: **Sanborn, Head & Associates, Inc.**

Batch ID: 637316-90387/A073020E6251

Client Designation: **Cambridge Brands, Inc. | 4511.00**

Parameter Name	Blank (RL)	Blank (MDL)	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Pyridine	< 5	< .18	11 (44 %R)	11 (44 %R) (0 RPD)		ug/L	15 - 140	20	625.1
Azobenzene	< 1	< .14	19 (75 %R)	20 (78 %R) (4 RPD)		ug/L	40 - 140	20	625.1
Carbazole	< 1	< .12	20 (79 %R)	21 (83 %R) (5 RPD)		ug/L	40 - 140	20	625.1
Dimethylphthalate	< 1	< .11	19 (78 %R)	20 (80 %R) (3 RPD)		ug/L	1 - 120	183	625.1
Diethylphthalate	< 5	< .11	21 (82 %R)	21 (85 %R) (3 RPD)		ug/L	1 - 120	100	625.1
Di-n-butylphthalate	< 5	< .64	21 (85 %R)	22 (87 %R) (3 RPD)		ug/L	1 - 120	47	625.1
Butylbenzylphthalate	< 5	< .14	20 (82 %R)	21 (86 %R) (5 RPD)		ug/L	1 - 152	60	625.1
bis(2-Ethylhexyl)phthalate	< 5	< .27	21 (84 %R)	21 (85 %R) (1 RPD)		ug/L	8 - 158	82	625.1
Di-n-octylphthalate	< 5	< .2	23 (93 %R)	24 (95 %R) (3 RPD)		ug/L	4 - 146	69	625.1
Dibenzofuran	< 1	< .11	19 (76 %R)	20 (79 %R) (4 RPD)		ug/L	40 - 140	20	625.1
Naphthalene	< 1	< .088	17 (69 %R)	17 (69 %R) (0 RPD)		ug/L	21 - 133	65	625.1
2-Methylnaphthalene	< 1	< .11	19 (76 %R)	19 (76 %R) (0 RPD)		ug/L	40 - 140	65	625.1
1-Methylnaphthalene	< 1	< .12	19 (77 %R)	19 (77 %R) (0 RPD)		ug/L	40 - 140	65	625.1
Acenaphthylene	< 1	< .11	18 (72 %R)	18 (74 %R) (3 RPD)		ug/L	33 - 145	74	625.1
Acenaphthene	< 1	< .11	19 (76 %R)	19 (78 %R) (3 RPD)		ug/L	47 - 145	48	625.1
Fluorene	< 1	< .093	19 (74 %R)	19 (78 %R) (4 RPD)		ug/L	59 - 121	38	625.1
Phenanthrene	< 1	< .11	19 (75 %R)	19 (78 %R) (4 RPD)		ug/L	54 - 120	39	625.1
Anthracene	< 1	< .13	19 (75 %R)	20 (78 %R) (4 RPD)		ug/L	27 - 133	66	625.1
Fluoranthene	< 1	< .12	19 (75 %R)	19 (78 %R) (3 RPD)		ug/L	26 - 137	66	625.1
Pyrene	< 1	< .11	17 (69 %R)	19 (74 %R) (7 RPD)		ug/L	52 - 120	49	625.1
Benzo[a]anthracene	< 1	< .17	18 (72 %R)	19 (75 %R) (4 RPD)		ug/L	33 - 143	53	625.1
Chrysene	< 1	< .14	18 (73 %R)	19 (75 %R) (3 RPD)		ug/L	17 - 168	87	625.1
Benzo[b]fluoranthene	< 1	< .095	20 (80 %R)	21 (83 %R) (4 RPD)		ug/L	24 - 159	71	625.1
Benzo[k]fluoranthene	< 1	< .14	20 (78 %R)	21 (82 %R) (5 RPD)		ug/L	11 - 162	63	625.1
Benzo[a]pyrene	< 1	< .058	20 (78 %R)	21 (82 %R) (5 RPD)		ug/L	17 - 163	72	625.1
Indeno[1,2,3-cd]pyrene	< 1	< .13	19 (76 %R)	20 (80 %R) (5 RPD)		ug/L	1 - 171	99	625.1
Dibenz[a,h]anthracene	< 1	< .16	19 (77 %R)	20 (82 %R) (6 RPD)		ug/L	1 - 227	126	625.1
Benzo[g,h,i]perylene	< 1	< .14	18 (74 %R)	19 (77 %R) (4 RPD)		ug/L	1 - 219	97	625.1
n-Decane	< 5	< .16	14 (58 %R)	14 (56 %R) (3 RPD)		ug/L	40 - 140	20	625.1
n-Octadecane	< 5	< .5	20 (80 %R)	21 (82 %R) (3 RPD)		ug/L	40 - 140	20	625.1
2-Fluorophenol (surr)	42 %R		41 %R	40 %R		% Rec	15 - 110		625.1
Phenol-d6 (surr)	30 %R		30 %R	30 %R		% Rec	15 - 110		625.1
2,4,6-Tribromophenol (surr)	79 %R		79 %R	84 %R		% Rec	15 - 110		625.1
Nitrobenzene-D5 (surr)	76 %R		73 %R	72 %R		% Rec	30 - 130		625.1
2-Fluorobiphenyl (surr)	82 %R		76 %R	77 %R		% Rec	30 - 130		625.1
p-Terphenyl-D14 (surr)	82 %R		79 %R	83 %R		% Rec	30 - 130		625.1

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/!Flagged analyte recoveries deviated from the QA/QC limits. Unless noted on the sample page, flagged analytes that exceed acceptance limits in the Quality Control sample do not impact the data.

LABORATORY REPORT

EAI ID#: **213555**

Client: **Sanborn, Head & Associates, Inc.**

Client Designation: **Cambridge Brands, Inc. | 4511.00**

Sample ID:	SH-102W-F	SH-102W-UF
Lab Sample ID:	213555.01	213555.02
Matrix:	aqueous	aqueous
Date Sampled:	7/28/20	7/28/20
Date Received:	7/28/20	7/28/20
Units:	ug/L	ug/L
Date of Extraction/Prep:	7/31/20	7/31/20
Date of Analysis:	7/31/20	7/31/20
Analyst:	AR	AR
Method:	8011/504	8011/504
Dilution Factor:	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	**105 %R**	**105 %R**

QC REPORT

EAI ID#: **213555**

Client: **Sanborn, Head & Associates, Inc.** **Batch ID:** 63731786345/A073120E5041

Client Designation: **Cambridge Brands, Inc. | 4511.00**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,2-Dibromoethane(EDB)	< 0.02	0.11 (109 %R)	0.11 (110 %R) (0 RPD)	7/31/2020	ug/L	70 - 130	20	8011/504
Dibromochloropropane (DBCP)	< 0.02	0.097 (97 %R)	0.097 (97 %R) (0 RPD)	7/31/2020	ug/L	70 - 130	20	8011/504
1,1,1,2-Tetrachloroethane (surr)	103 %R	104 %R	105 %R	7/31/2020	% Rec	65 - 135	20	8011/504

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted on the sample page, flagged analytes that exceed acceptance limits in the Quality Control sample do not impact the data.

LABORATORY REPORT

EAI ID#: **213555**

Client: **Sanborn, Head & Associates, Inc.**

Client Designation: **Cambridge Brands, Inc. | 4511.00**

Sample ID:	SH-102W-F	SH-102W-UF
Lab Sample ID:	213555.01	213555.02
Matrix:	aqueous	aqueous
Date Sampled:	7/28/20	7/28/20
Date Received:	7/28/20	7/28/20
Units:	ug/L	ug/L
Date of Extraction/Prep:	7/29/20	7/29/20
Date of Analysis:	7/29/20	7/29/20
Analyst:	MA	MA
Method:	608.3	608.3
Dilution Factor:	1	1
PCB-1016	< 0.2	< 0.2
PCB-1221	< 0.2	< 0.2
PCB-1232	< 0.2	< 0.2
PCB-1242	< 0.2	< 0.2
PCB-1248	< 0.2	< 0.2
PCB-1254	< 0.2	< 0.2
PCB-1260	< 0.2	< 0.2
PCB-1262	< 0.2	< 0.2
PCB-1268	< 0.2	< 0.2
TMX (surr)	**72 %R**	**79 %R**
DCB (surr)	**77 %R**	**81 %R**

Acid clean-up was performed on the samples and associated batch QC.

QC REPORT

EAI ID#: **213555**

Client: **Sanborn, Head & Associates, Inc.**

Batch ID: 637316-05751/A072920PB6081

Client Designation: **Cambridge Brands, Inc. | 4511.00**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.2	1.8 (91 %R)	1.8 (90 %R) (2 RPD)	7/29/2020	ug/L	50 - 140	36	608.3
PCB-1221	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	7/29/2020	ug/L			608.3
PCB-1232	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	7/29/2020	ug/L			608.3
PCB-1242	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	7/29/2020	ug/L			608.3
PCB-1248	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	7/29/2020	ug/L			608.3
PCB-1254	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	7/29/2020	ug/L			608.3
PCB-1260	< 0.2	1.7 (86 %R)	1.7 (84 %R) (2 RPD)	7/29/2020	ug/L	8 - 140	38	608.3
PCB-1262	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	7/29/2020	ug/L			608.3
PCB-1268	< 0.2	< 0.2 (%R N/A)	< 0.2 (%R N/A) (RPD N/A)	7/29/2020	ug/L			608.3
TMX (surr)	83 %R	85 %R	83 %R	7/29/2020	% Rec	30 - 150		608.3
DCB (surr)	81 %R	85 %R	84 %R	7/29/2020	% Rec	30 - 150		608.3

Samples were extracted and analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
Sample surrogate recoveries met the above stated criteria.
The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.
There were no exceptions in the analyses, unless noted.
*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted on the sample page, flagged analytes that exceed acceptance limits in the Quality Control sample do not impact the data.

LABORATORY REPORT

EAI ID#: **213555**

Client: **Sanborn, Head & Associates, Inc.**

Client Designation: **Cambridge Brands, Inc. | 4511.00**

Sample ID:	SH-102W-F	SH-102W-UF
Lab Sample ID:	213555.01	213555.02
Matrix:	aqueous	aqueous
Date Sampled:	7/28/20	7/28/20
Date Received:	7/28/20	7/28/20

			Analysis			
			Units	**Date**	**Time**	**Method**	**Analyst**
Solids Suspended	< 5	< 5	mg/L	07/30/20	14:00	2540D-11	KJD
Chloride	**530**	**530**	mg/L	07/29/20	10:36	4500CLE-11	ATA
Cyanide Total	**0.011**	**0.011**	mg/L	07/29/20	11:59	OIA-1677-09	KD
Ammonia-N	< 0.05	< 0.05	mg/L	07/29/20	11:40	TM NH3-001	SEL
Total Residual Chlorine	< 0.05	< 0.05	mg/L	07/28/20	17:25	4500CIG-00	AMB

Sample ID:	SW
Lab Sample ID:	213555.03
Matrix:	aqueous
Date Sampled:	7/28/20
Date Received:	7/28/20

		Analysis			
		Units	**Date**	**Time**	**Method**	**Analyst**
Ammonia-N	< 0.05	mg/L	07/29/20	11:45	TM NH3-001	SEL
pH	**8.9**	SU	07/28/20	17:32	4500H+B-11	AMB

QC REPORT

EAI ID#: **213555**

Client: **Sanborn, Head & Associates, Inc.**

Client Designation: **Cambridge Brands, Inc. | 4511.00**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Solids Suspended	< 5	100 (107 %R)	94 (100 %R) (6 RPD)	mg/L	7/30/20	90 - 110	20	2540D-11
Chloride	< 1	25 (100 %R)	25 (100 %R) (0 RPD)	mg/L	7/29/20	90 - 110	20	4500CLE-11
Cyanide Total	< 0.005	0.10 (104 %R)	0.11 (110 %R) (5 RPD)	mg/L	7/29/20	82 - 132	20	OIA-1677-09
Ammonia-N	< 0.05	1.8 (91 %R)	1.9 (93 %R) (2 RPD)	mg/L	7/29/20	90 - 110	20	TM NH3-001
Total Residual Chlorine	< 0.05	0.04 (80 %R)	0.04 (80 %R) (0 RPD)	mg/L	7/28/20	80 - 120	20	4500CIG-00

Samples were analyzed within holding times unless noted on the sample results page.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
*/! Flagged analyte recoveries deviated from the QA/QC limits.

LABORATORY REPORT

EAI ID#: **213555**

Client: **Sanborn, Head & Associates, Inc.**

Client Designation: **Cambridge Brands, Inc. | 4511.00**

Sample ID:	SH-102W-F	SH-102W-UF						
Lab Sample ID:	213555.01	213555.02						
Matrix:	aqueous	aqueous						
Date Sampled:	7/28/20	7/28/20						
Date Received:	7/28/20	7/28/20						
			Analytical Matrix	**Units**	**Date of Analysis**	**Method**	**Analyst**	
Chromium (VI)	<10	<10	AqTot	ug/L	7/29/20	7196A	HEH	
Antimony	**2.0**	**2.0**	AqTot	ug/L	7/29/20	200.8	DS	
Arsenic	< 0.5	< 0.5	AqTot	ug/L	7/29/20	200.8	DS	
Cadmium	< 0.1	< 0.1	AqTot	ug/L	7/29/20	200.8	DS	
Chromium	**0.75**	**0.68**	AqTot	ug/L	7/29/20	200.8	DS	
Chromium (III)	< 10	< 10	AqTot	ug/L	7/29/20	200.8	DS	
Copper	**6.8**	**6.5**	AqTot	ug/L	7/29/20	200.8	DS	
Iron	**58**	**59**	AqTot	ug/L	7/29/20	200.8	DS	
Lead	**0.44**	**0.44**	AqTot	ug/L	7/29/20	200.8	DS	
Nickel	**1.6**	**1.4**	AqTot	ug/L	7/29/20	200.8	DS	
Selenium	**8.3**	**8.4**	AqTot	ug/L	7/29/20	200.8	DS	
Silver	< 0.1	< 0.1	AqTot	ug/L	7/29/20	200.8	DS	
Zinc	**66**	**53**	AqTot	ug/L	7/29/20	200.8	DS	

Sample ID:	SW						
Lab Sample ID:	213555.03						
Matrix:	aqueous						
Date Sampled:	7/28/20						
Date Received:	7/28/20						
		Analytical Matrix	**Units**	**Date of Analysis**	**Method**	**Analyst**	
Chromium (VI)	<10	AqTot	ug/L	7/29/20	7196A	HEH	
Antimony	< 0.5	AqTot	ug/L	7/29/20	200.8	DS	
Arsenic	**0.99**	AqTot	ug/L	7/29/20	200.8	DS	
Cadmium	< 0.1	AqTot	ug/L	7/29/20	200.8	DS	
Chromium	**0.66**	AqTot	ug/L	7/29/20	200.8	DS	
Chromium (III)	< 10	AqTot	ug/L	7/29/20	200.8	DS	
Copper	**4.0**	AqTot	ug/L	7/29/20	200.8	DS	
Iron	**550**	AqTot	ug/L	7/29/20	200.8	DS	
Lead	**3.4**	AqTot	ug/L	7/29/20	200.8	DS	
Nickel	**1.4**	AqTot	ug/L	7/29/20	200.8	DS	
Selenium	< 0.5	AqTot	ug/L	7/29/20	200.8	DS	
Silver	< 0.1	AqTot	ug/L	7/29/20	200.8	DS	
Zinc	**200**	AqTot	ug/L	7/29/20	200.8	DS	
Total Hardness (as CaCO3)	**130000**	AqTot	ug/L	7/29/20	200.8	DS	

QC REPORT

EAI ID#: **213555**

Client: **Sanborn, Head & Associates, Inc.**

Client Designation: **Cambridge Brands, Inc. | 4511.00**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Antimony	< 0.0005	1.1 (110 %R)	NA	mg/L	7/29/20	85 - 115	20	200.8
Arsenic	< 0.0005	1.1 (105 %R)	NA	mg/L	7/29/20	85 - 115	20	200.8
Cadmium	< 0.0001	0.99 (99 %R)	NA	mg/L	7/29/20	85 - 115	20	200.8
Chromium	< 0.0005	1.0 (105 %R)	NA	mg/L	7/29/20	85 - 115	20	200.8
Copper	< 0.0001	1.0 (105 %R)	NA	mg/L	7/29/20	85 - 115	20	200.8
Iron	< 0.05	11 (101 %R)	NA	mg/L	7/29/20	85 - 115	20	200.8
Lead	< 0.0001	1.1 (106 %R)	NA	mg/L	7/29/20	85 - 115	20	200.8
Nickel	< 0.0001	1.0 (104 %R)	NA	mg/L	7/29/20	85 - 115	20	200.8
Selenium	< 0.0005	1.0 (101 %R)	NA	mg/L	7/29/20	85 - 115	20	200.8
Silver	< 0.0001	0.011 (108 %R)	NA	mg/L	7/29/20	85 - 115	20	200.8
Zinc	< 0.001	1.0 (100 %R)	NA	mg/L	7/29/20	85 - 115	20	200.8
Chromium (VI)	< 0.01	0.35 (98 %R)	NA	mg/L	7/29/20	85 - 115	20	7196A

Samples were analyzed within holding times unless noted on the sample results page.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
*/! Flagged analyte recoveries deviated from the QA/QC limits.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

July 31, 2020

Alison Blay
Eastern Analytical
25 Chenell Dr.
Concord, NH 03301

RE: Project: 213555
Pace Project No.: 70140073

Dear Alison Blay:

Enclosed are the analytical results for sample(s) received by the laboratory on July 30, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kimberley Mack

Kimberley M. Mack
kimberley.mack@pacelabs.com
(631)694-3040
Project Manager

Enclosures

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: 213555
Pace Project No.: 70140073

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 213555
Pace Project No.: 70140073

Sample: SH-102W-F **Lab ID: 70140073001** Collected: 07/28/20 13:10 Received: 07/30/20 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1624B MSV	Analytical Method: EPA 1624B Pace Analytical Services - Melville							
Acetone	**<0.010**	mg/L	0.010	1		07/31/20 13:10	67-64-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	120	%	53-183	1		07/31/20 13:10	17060-07-0	
4-Bromofluorobenzene (S)	110	%	63-140	1		07/31/20 13:10	460-00-4	
Toluene-d8 (S)	121	%	60-135	1		07/31/20 13:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 213555
Pace Project No.: 70140073

Sample: SH-102W-UF **Lab ID: 70140073002** Collected: 07/28/20 13:50 Received: 07/30/20 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1624B MSV	Analytical Method: EPA 1624B Pace Analytical Services - Melville							
Acetone	**<0.010**	mg/L	0.010	1		07/31/20 12:47	67-64-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	123	%	53-183	1		07/31/20 12:47	17060-07-0	
4-Bromofluorobenzene (S)	110	%	63-140	1		07/31/20 12:47	460-00-4	
Toluene-d8 (S)	123	%	60-135	1		07/31/20 12:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: 213555
Pace Project No.: 70140073

QC Batch: 171436
QC Batch Method: EPA 1624B
Analysis Method: EPA 1624B
Analysis Description: 1624B MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70140073001, 70140073002

METHOD BLANK: 828686 Matrix: Water
Associated Lab Samples: 70140073001, 70140073002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	mg/L	<0.010	0.010	07/31/20 11:39	
1,2-Dichloroethane-d4 (S)	%	114	53-183	07/31/20 11:39	
4-Bromofluorobenzene (S)	%	104	63-140	07/31/20 11:39	
Toluene-d8 (S)	%	121	60-135	07/31/20 11:39	

LABORATORY CONTROL SAMPLE: 828687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	mg/L	0.05	0.056	112	20-200	
1,2-Dichloroethane-d4 (S)	%			110	53-183	
4-Bromofluorobenzene (S)	%			108	63-140	
Toluene-d8 (S)	%			117	60-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: 213555
Pace Project No.: 70140073

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 213555
Pace Project No.: 70140073

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70140073001	SH-102W-F	EPA 1624B	171436		
70140073002	SH-102W-UF	EPA 1624B	171436		

CHAIN-OF-CUSTODY RECORD

professional

EAI ID# 213555

23

Sample ID	Date Sampled	Matrix	aParameters	Sample Notes
SH-102W-F	7/28/2020 13:10	aqueous	Subcontract - EPA Method 1624 Isotope Dilution	
SH-102W-UF	7/28/2020 13:50	aqueous	Subcontract - EPA Method 1624 Isotope Dilution	

WO# : 70140073

70140073

EAI ID# 213555 Project State: MA

Project ID:

Company PACE ANALYTICAL

Address 575 BROAD HOLLOW ROAD

Address MELVILLE, NY 11747

Account #

Phone # (631)694-3040

Results Needed: Preferred Date: Standard

RUSH Due Date: 7/31

QC Deliverables

☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

Notes about project:

Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

RUSH!! Results needed by 7/31!!

Acetone by EPA Method 1624 - 50 ug/L RL needed

PO #:52996 EAI ID# 213555

Data Deliverable (circle)

Excel NH EMD EQuIS ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by:

Relinquished by	Date/Time	Received by
	7/29/20 1600 UPS	
		Pace II 7/30/20 9:40
Relinquished by	Date/Time	Received by

Pace Analytical

Sample Condition Upon Receipt

Client Name: EASTA

Proje WO#: 70140073

PM: KMM Due Date: 08/06/20

CLIENT: EASTA

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 1Z X46 599 01 9694 2753

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☐ No

Temperature Blank Present: ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Type of Ice: (Wet) Blue None

Thermometer Used: (TH091) Correction Factor: +0.4

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 2.1 Cooler Temperature Corrected (°C): 2.5

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample) Date and Initials of person examining contents: JT 7/30/20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples orignate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested:	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑Yes	☐No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐Yes	☐No	☑N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☐Yes	☑No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

F-LI-C-002-rev.02

PHOENIX
Environmental Laboratories, Inc.

Friday, July 31, 2020

Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Project ID: 213555
SDG ID: GCG43241
Sample ID#s: CG43241 - CG43243

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

July 31, 2020

SDG I.D.: GCG43241

Project ID: 213555

Client Id	Lab Id	Matrix
SH-102W-F	CG43241	WATER
SH-102W-UF	CG43242	WATER
SW	CG43243	WATER

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 31, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		07/28/20	13:10
Location Code:	EASTANAL	Received by:	CP	07/29/20	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	52994				

Laboratory Data

SDG ID: GCG43241
Phoenix ID: CG43241

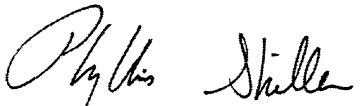
Project ID: 213555
Client ID: SH-102W-F

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Mercury	< 0.0002	0.0002	mg/L	1	07/30/20	RS	SW7470/E245.1
Mercury Digestion	Completed				07/30/20	VT/VT	SW7470/245.1
1,4-dioxane							
1,4-dioxane	ND	0.20	ug/l	1	07/30/20	AW	EPA522
QA/QC Surrogates							
% 1,4-dioxane-d8	71		%	1	07/30/20	AW	70 - 130 %
Extraction for 1,4-Dioxane	Completed				07/29/20	S/S	EPA522

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
July 31, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 31, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		07/28/20	13:50
Location Code:	EASTANAL	Received by:	CP	07/29/20	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	52994				

Laboratory Data

SDG ID: GCG43241
Phoenix ID: CG43242

Project ID: 213555
Client ID: SH-102W-UF

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Mercury	< 0.0002	0.0002	mg/L	1	07/30/20	RS	SW7470/E245.1
Mercury Digestion	Completed				07/30/20	VT/VT	SW7470/245.1
1,4-dioxane							
1,4-dioxane	ND	0.20	ug/l	1	07/30/20	AW	EPA522
QA/QC Surrogates							
% 1,4-dioxane-d8	73		%	1	07/30/20	AW	70 - 130 %
Extraction for 1,4-Dioxane	Completed				07/29/20	S/S	EPA522

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
July 31, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 31, 2020

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		07/28/20	11:11
Location Code:	EASTANAL	Received by:	CP	07/29/20	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	52994				

Laboratory Data

SDG ID: GCG43241
Phoenix ID: CG43243

Project ID: 213555
Client ID: SW

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Mercury	< 0.0002	0.0002	mg/L	1	07/30/20	RS	SW7470/E245.1
Mercury Digestion	Completed				07/30/20	VT/VT	SW7470/245.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
July 31, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 31, 2020

QA/QC Data

SDG I.D.: GCG43241

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 539404 (mg/L), QC Sample No: CG43499 (CG43241, CG43242, CG43243)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	109			103			75 - 125	30

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 75-125%

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 31, 2020

QA/QC Data

SDG I.D.: GCG43241

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 539327 (ug/l), QC Sample No: CG42227 (CG43241, CG43242)										
1,4dioxane - Water										
1,4-dioxane	ND	0.20	107	116	8.1	103			70 - 130	20
% 1,4-dioxane-d8	73	%	72	72	0.0	72			70 - 130	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
July 31, 2020

Sample Criteria Exceedances Report

GCG43241 - EASTANAL

Friday, July 31, 2020

Criteria: None

State: MA

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

Analysis Comments

July 31, 2020

SDG I.D.: GCG43241

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

CHAIN-OF-CUSTODY RECORD

Eastern Analytical, Inc.
professional laboratory and drilling services

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EAI ID# 213555 Page 1

Sample ID	Date Sampled	Matrix	aParameters	Sample Notes
SH-102W-F	7/28/2020 13:10	aqueous	Subcontract - Mercury Cold Vapor (PEL)	WCP 2.6 120 mL plastic
			43241	
SH-102W-F	7/28/2020 13:10	aqueous	Subcontract - 1,4 Dioxane EPA Method 522	8oz Amber NA HSO4
SH-102W-UF	7/28/2020 13:50	aqueous	Subcontract - Mercury Cold Vapor (PEL)	120 ml plastic
			43242	
SH-102W-UF	7/28/2020 13:50	aqueous	Subcontract - 1,4 Dioxane EPA Method 522	8 oz Amber NAHSO4

EAI ID# 213555 **Project State: MA**

Project ID:

Company Phoenix Environmental Labs
Address 587 East Middle Turnpike
Address Manchester , CT 06040
Account #
Phone # (860) 645-1102

Results Needed: Preferred Date: Standard

RUSH Due Date: _____

QC Deliverables

☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

Notes about project:

Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

RUSH!! Results needed by 7/31!!

Need 0.1 ug/L RL for 1,4 Dioxane

PO #: 52994 **EAI ID# 213555**

Data Deliverable (circle)

Excel NH EMD EQuIS ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by: 7-29-20 @ 1100

Relinquished by	Date/Time	Received by
	7-29-20 @ 12:30	
Relinquished by	**Date/Time**	**Received by**
	7/29 1540	

CHAIN-OF-CUSTODY RECORD

Eastern Analytical, Inc.
professional laboratory and drilling services

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EAI ID# 213555 Page 2

Sample ID	Date Sampled	Matrix	aParameters	Sample Notes
SW	7/28/2020 11:11	aqueous	Subcontract - Mercury Cold Vapor (PEL)	WHP 2.9
			43243	120 ml plastic

EAI ID# 213555 **Project State: MA**

Project ID:

Company Phoenix Environmental Labs
Address 587 East Middle Turnpike
Address Manchester , CT 06040
Account #
Phone # (860) 645-1102

Results Needed: Preferred Date: Standard
RUSH Due Date: _____

QC Deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

Notes about project:
Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

RUSH!! Results needed by 7/31!!

Need 0.1 ug/L RL for 1,4 Dioxane

PO #: 52994 **EAI ID# 213555**

Data Deliverable (circle)
Excel NH EMD EQuIS ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by: 7-29-20 @ 1100

Relinquished by	Date/Time	Received by
	7-29-20 12:30	
Relinquished by	**Date/Time**	**Received by**

Eastern Analytical, Inc. 25 Chenell Dr. Concord, NH 03301 Phone: (603)228-0525 1-800-287-0525 customerservice@easternanalytical.com

7/29 1540

Page 1 of 1

CHAIN-OF-CUSTODY RECORD

213555

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

SAMPLE I.D.	SAMPLING DATE/TIME *IF COMPOSITE, INDICATE BOTH START & FINISH DATE/TIME	MATRIX (SEE BELOW)	GRAB/*COMPOSITE	VOC: 524.2 BTEX; 524.2 MTBE ONLY; 524.2 VTICs; 624 1,4 DIOXANE; 8021 BTEX HALOS; 8015 GRO MAVPH	SVOC: 625 SVTICs EDB DBCP; 625 ABN A BN PAH; TPH8100 LI L2; 8015 DRO MAEPH; PEST 608 PCB 608; PEST 8081 PCB 8082; OIL & GREASE 1664 TPH 1664	TCLP: TCLP 1311 ABN METALS; VOC PEST HERB	METALS: DISSOLVED METALS (LIST BELOW); TOTAL METALS (LIST BELOW)	INORGANICS: TS TSS TDS SPEC. CON.; BR CL F SO4 NO2 NO2,NO3; BOD CBOD T. ALK.; TKN NH3 T. PHOS. O. PHOS.; pH T. RES. CHLORINE; COD PHENOLS TOC DOC; TOTAL CYANIDE TOTAL SULFIDE; REACTIVE CYANIDE REACTIVE SULFIDE FLASHPOINT IGNITABILITY	MICRO: TOTAL COLIFORM E. COLI FECAL COLIFORM; ENTEROCOCCI HETEROTROPHIC PLATE COUNT	OTHER: NPDES RGP	# OF CONTAINERS	NOTES MEOH VIAL #
SH-102W-F	7/28/20 13:10	GW	G						X	3	20
SH-102W-UF	7/28/20 13:50	GW	G						X	3	20
SW	7/28/20 11:11	SW	G		X		X	X		1	10

MATRIX: A-AIR; S-SOIL; GW-GROUND WATER; SW-SURFACE WATER; DW-DRINKING WATER; WW-WASTE WATER

PRESERVATIVE: H-HCL; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH

PROJECT MANAGER: Samantha Slater

COMPANY: Sanborn Head + Assoc.

ADDRESS: 98 N Washington St #101

CITY: Boston STATE: MA ZIP: 02114

PHONE: (857) 327-9748 EXT.:

FAX:

E-MAIL: sslater@sanbornhead.com

SITE NAME: Cambridge Brands, Inc.

PROJECT #: 4511.00

STATE: NH (MA) ME VT OTHER:

REGULATORY PROGRAM: NPDES: (RGP) POTW STORMWATER OR GWP, OIL FUND, BROWNFIELD OR OTHER:

QUOTE #: PO #:

DATE NEEDED: 8/4/20

QA/QC REPORTING LEVEL: A B C OR MA MCP

REPORTING OPTIONS: PRELIMS: YES OR NO

ELECTRONIC OPTIONS: (E-MAIL) (PDF) (EQUIS) (EXCEL)

TEMP. 20 °C

ICE? (YES) NO

SAMPLER(S): Meghan R Reisenauer

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
MMR Reisenauer	7/28/20	17:09	
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:

METALS: 8 RCRA 13 PP FE, MN (PB, CU)

OTHER METALS: See included sheet.

SAMPLES FIELD FILTERED? ☒ YES ☐ NO

NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)
Only SH-102W-F filtered.
See included sheet for SW sample only analytes. Run all NPDES RGP analytes for SH-102W-F and SH-102W-UF minus ethanol.

SITE HISTORY:

SUSPECTED CONTAMINATION:

FIELD READINGS:

Eastern Analytical, Inc.
professional laboratory and drilling services
25 CHENELL DRIVE | CONCORD, NH 03301 | TEL: 603.228.0525 | 1.800.287.0525 | E-MAIL: CUSTOMERSERVICE@EASTERNANALYTICAL.COM | WWW.EASTERNANALYTICAL.COM

(WHITE: ORIGINAL GREEN: PROJECT MANAGER)

SANBORN HEAD

File No. _____ Page No. ___ of ___
Project 4511.00
Location _____
Subject _____
Calculated by _____ Date _____
Checked by _____ Date _____

Receiving Water Sample SW Analytes

- pH
- ~~Temp~~ Field Parameter
- Hardness
- Ammonia
- Total Recoverable Metals
  - Antimony
  - Arsenic
  - Cadmium
  - Copper
  - Iron
  - Lead
  - Nickel
  - Selenium
  - Silver
  - Zinc
  - Chromium (III)
  - Chromium (VI)
  - Mercury

APPENDIX E

MUNICIPAL DEWATERING PERMIT

PERMIT TO DEWATER

Location: 810 Main Street

Owner: Cambridge Brands, Inc.

Contractor: Columbia Construction Company

Temporary ☑

Permanent ☐

The property owner, Cambridge Brands, Inc. agrees to hold harmless and indemnify the City of Cambridge for any liability on the part of the City directly or indirectly arising out of the dewatering operation.

The issuance of this permit is based in part in the submission packet of the applicant with documentation as follows:

the Remediation General Permit materials for Dewatering submitted to and approved by the E.P.A.

In addition, the application has been reviewed by the City under third party agreement as documented in the following reports:

Not Certain if Applicable

All activities conducted in conjunction with the issuance of this permit must be in accordance with the provisions of the aforementioned reports. Any deviations in conditions must be reported to and approved by the Commissioner of Public Works.

This permit is in addition to any other street permit issued by the Department in connection with any street excavation or obstruction; and all conditions as specified in the Discharge Permit for Dewatering.

For the entire period of time the groundwater is being discharged to a storm drain, the property owner shall provide copies of each Discharge Monitoring Report Form submitted to the EPA, pursuant to the owner's discharge permit.

If in the future the EPA requires the City of Cambridge to bring existing stormwater drainage into compliance with EPA quality standards, as a condition to the continuation of discharge of that stormwater (also including groundwater) into an EPA regulated system into which the Cambridge Brands, Inc. (property owner) drains, the owner will agree to maintain its water discharge with such EPA water quality standards.

The property owner and contractor shall at all times meet the conditions specified in the requisite legal agreement/affidavits.

All groundwater pumped from the work shall be disposed of without damage to pavements, other surfaces or property.

Where material or debris has washed or flowed into or has been placed in existing gutters, drains, pipes or structures, such material or debris shall be entirely removed and satisfactorily disposed of by the

Contractor during the progress of work as directed by the Public Works Department.

Any flooding or damage of property and possessions caused by siltation of existing gutters, pipes or structures shall be the responsibility of the Contractor.

Provisions shall be made to insure that no material, water or solid, will freeze on any pavement or in any location which will cause inconvenience or hazard to the general public.

Upon completion of the work, existing gutters, drains, pipes and structures shall be (bucket) cleaned and material disposed of satisfactorily prior to release by the Public Works Department.

Any permit issued by the City of Cambridge shall be revoked upon transfer of any ownership interest unless and until subsequent owner(s) or parties of interest agree to the foregoing terms.

This permit shall remain in effect for one year and shall be renewable thereafter at the agreement of the parties.

The following special conditions as set forth below are part of the permit.

To be determined.

City Manager	Property Manager: Corporate Entity President, General Partner or Trustee Trustee with Instrument of Authority
Date	Date
City Solicitor	Contractor
Date	Date
Commissioner of Public	Contractor
Date	Date

CC: Engineering
Supervisor of Sewer Maintenance and Engineering
Superintendent of Streets
Commissioner of Inspectional Services

Outfall Info

Facility ID	D08OF0010
Type	Out Fall
Water Type	Storm Runoff
Status	Deployed
Diameter	TRIPLE 48"
Catchment	D08
Invert Elevation	
Install Date	11/01/1999
Owner	City of Cambridge
Source	SMASSAVE C-1
Last Edit Date	05/23/2006

Gravity Main Info

Type	Storm Runoff
Facility ID	FITT3313_D08OF0010
Material	
Diameter	48 inch
Height	
Width	
Upstream Invert	9.61
Downstream Invert	7.86
Over Indication	Single Pipe
Install Date	11/01/1999
Last Edit Date	04/17/2014
Owner	City of Cambridge
Source 1	SMASSAVE C-1
Source 2	DCR HISTORIC PKWYS PH2 SHT C17
TV	

APPENDIX F

FEDERAL CORRESPONDENCE

United States Department of the Interior

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

In Reply Refer To:
Consultation Code: 05E1NE00-2020-SLI-3661
Event Code: 05E1NE00-2020-E-11229
Project Name: 810 Main Street

August 12, 2020

Subject: List of threatened and endangered species that may occur in your proposed project location, and/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: 05E1NE00-2020-SLI-3661

Event Code: 05E1NE00-2020-E-11229

Project Name: 810 Main Street

Project Type: DEVELOPMENT

Project Description: The project is taking place at 810 Main Street in Cambridge, MA. A five story building, including a basement, will be constructed. It will involve excavation of soils below groundwater elevation which will require dewatering. The groundwater will be treated on-site and discharged to an existing storm water drain on site which leads to outfall D08OF0010 which is located near the intersection of Memorial Drive and Massachusetts Avenue in Cambridge (Lat: 42°21'26.5"N Long: 71°05'28.7"W). The expected length of water discharge will be September 8, 2020 to March 8, 2021.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/42.362906354707846N71.09740419859344W

Counties: Middlesex, MA

Endangered Species Act Species

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

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

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

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

---

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

Critical habitats

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

From: Shannon Ring
To: nmfs.gar.garfo@noaa.gov
Subject: Information for RGP
Date: Wednesday, August 12, 2020 4:57:00 PM
Attachments: 20200812 Species List.pdf

Good afternoon,

I am writing to request information to be included as part of a Notice of Intent (NOI) for a Remediation General Permit (RGP). The NOI is for construction dewatering during excavation activities at 810 Main Street in Cambridge, MA, 02139. Effluent will be discharged to the Charles River in Cambridge, MA by means of the existing storm drain on site. The Outfall through which the storm drain flows is D08OF0010.

Approximate Location of Discharge:
Lat: 42°21'26.5"N Long: 71°05'28.7"W

As part of the application to the USEPA for the RGP, we need to determine if this proposed temporary discharge has the potential to adversely affect any federally listed species in the reach of the Charles River downstream of the discharge point.
Attached is the species list requested from the USFWS, which identified no threatened/endangered/candidate species or critical habitats in the area.

Please let me know if you require any further information.

Thank you,

Shannon Ring
Engineer

SANBORN | HEAD & ASSOCIATES, INC.
D 978.577.1042 | M 978.870.7459 | 1 Technology Park Drive, Westford, MA 01886

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

From: Christine Vaccaro - NOAA Federal
To: Shannon Ring
Subject: RGP
Date: Thursday, August 13, 2020 9:11:23 AM

Hi Shannon,
There are no species listed by us under the ESA that would be exposed to to the effects of this action.

For future inquiries re: endangered species, please send any correspondence to NMFS.GAR.ESA.Section7@noaa.gov.

Cheers,
Chris

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

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

APPENDIX G

NATIONAL REGISTER OF HISTORICAL PLACES, CAMBRIDGE, MASSACHUSETTS

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

Ref#	Property Name	Listed Date	State	County	City	Street & Number
79000354	Abbot, Edwin, House	5/10/1979	MASSACHUSETTS	Middlesex	Cambridge	1 Follen St.
82001883	Aborn, John, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	41 Orchard St.
04000249	Alewife Brook Parkway	3/18/2004	MASSACHUSETTS	Middlesex	Cambridge	Alewife Brook Parkway
82001908	Almshouse	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	41 Orchard St.
82001906	American Net and Twine Company	4/1/1982	MASSACHUSETTS	Middlesex	Cambridge	155 2nd St.
82001916	Ash Street Historic District	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	Ash St. and Ash St. Place between Brattle and Mount Auburn Sts.
82001917	Athenaeum Press	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	215 1st St.
83000781	Atwood, Ephraim, House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	110 Hancock St.
72000128	Austin Hall	4/19/1972	MASSACHUSETTS	Middlesex	Cambridge	Harvard University campus
83000782	Avon Hill Historic District	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	Washington and Walnut Aves. and Agassiz, Humboldt, Arlington and Lancaster Sts.
82001918	B and B Chemical Company	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	780 Memorial Dr.
76000272	Baldwin, Maria, House	5/11/1976	MASSACHUSETTS	Middlesex	Cambridge	196 Prospect St.
82001919	Barnes, James B., House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	200 Monsignor O'Brien Hwy.
96000520	Beck--Warren House	5/20/1996	MASSACHUSETTS	Middlesex	Cambridge	1 Prescott St.
86001272	Bennink--Douglas Cottages	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	35--51 Walker St.
82001920	Berkeley Street Historic District	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	Berkeley St.
86001265	Berkeley Street Historic District (Bou	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	1--8 Berkeley Pl.
86001270	Bertram Hall at Radcliffe College	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	53 Shepard St.
82001921	Beth Israel Synagogue	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	238 Columbia St.
82001922	Bigelow Street Historic District	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	Bigelow St.
82001923	Billings, Frederick, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	45 Orchard St.
75000295	Birkhoff, George D., House	5/15/1975	MASSACHUSETTS	Middlesex	Cambridge	22 Craigie
97000561	Blake and Knowles Steam Pump Cor	6/13/1997	MASSACHUSETTS	Middlesex	Cambridge	Bounded by Third, Binney, Fifth, and Rogers Sts.
82001924	Bottle House Block	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	204-214 3rd St.
86001276	Brabrook, E. H., House	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	42--44 Avon St.
83000784	Bradbury, William F., House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	369 Harvard St.
82001925	Brattle Hall	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	40 Brattle St.
73000286	Brattle, William, House	5/8/1973	MASSACHUSETTS	Middlesex	Cambridge	42 Brattle St.
75000298	Bridgman, Percy, House	5/15/1975	MASSACHUSETTS	Middlesex	Cambridge	10 Buckingham Pl.
86002068	Brooks, Luther, House	9/12/1986	MASSACHUSETTS	Middlesex	Cambridge	34 Kirkland St.
82001926	Building at 10 Follen Street	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	10 Follen St.
83000790	Building at 102-104 Inman Street	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	102-104 Inman St.
83000789	Building at 104-106 Hancock Street	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	104-106 Hancock St.
82001927	Building at 106-108 Inman St	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	106-108 Inman St.
83000787	Building at 1707-1709 Cambridge St	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	1707-1709 Cambridge St.
83000788	Building at 1715-1717 Cambridge St	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	1715-1717 Cambridge St.
83000786	Building at 259 Mount Auburn Stree	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	259 Mt. Auburn St.
82001928	Building at 42 Edward J. Lopez Aven	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	42 Edward J. Lopez Ave.
82001929	Buildings at 110-112 Inman St.	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	110-112 Inman St.
82001930	Buildings at 15-17 Lee St.	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	15-17 Lee St.
83004293	Cambidge Common Historic District	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	Massachusetts Ave. and Garden, Waterhouse, Cambridge, and Peabody Sts.
73000281	Cambridge Common Historic Distric	4/13/1973	MASSACHUSETTS	Middlesex	Cambridge	Garden, Waterhouse, Cambridge, and Peabody Sts., and Massachusetts Ave.
87000499	Cambridge Common Historic Distric	1/26/1987	MASSACHUSETTS	Middlesex	Cambridge	Roughly NW of Waterhouse St. on Concord Ave. between Garden and Follen Sts.
02001189	Cambridge Home for the Aged and	10/22/2002	MASSACHUSETTS	Middlesex	Cambridge	650 Concord Ave.
82001931	Cambridge Public Library	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	449 Broadway St.
78000435	Carpenter Center for the Visual Arts	4/20/1978	MASSACHUSETTS	Middlesex	Cambridge	19 Prescott St.
90000128	Central Square Historic District	3/2/1990	MASSACHUSETTS	Middlesex	Cambridge	Roughly Massachusetts Ave. from Clinton St. to Main St.
78000436	Charles River Basin Historic District	12/22/1978	MASSACHUSETTS	Middlesex	Cambridge	Both banks of Charles River from Eliot Bridge to Charles River Dam
83000791	Child, Francis J., House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	67 Kirkland St.
66000140	Christ Church	10/15/1966	MASSACHUSETTS	Middlesex	Cambridge	Garden St.
83000792	Church of the New Jerusalem	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	50 Quincy St.
82001932	City Hall Historic District	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	Massachusetts Ave., Bigelow and Temple Sts, Inman and Richard Allen Dr.
83000793	Cloverden	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	29 Fallen St.
82004968	Colburn, Sarah Foster, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	7 Dana St.
82001933	Conventual Church of St. Mary and	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	980 Memorial Dr.
82001934	Cook, William, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	71 Appleton St.
83000795	Coolidge, Josiah, House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	24 Coolidge Hill Rd.
72000124	Cooper-Frost-Austin House	9/22/1972	MASSACHUSETTS	Middlesex	Cambridge	21 Linnaean St.
86001575	Craigie Arms	7/10/1986	MASSACHUSETTS	Middlesex	Cambridge	2--6 University Rd., 122 Mt. Auburn, and 6 Bennett Sts.
83000796	cummings, e.e., House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	104 Irving St.
76000305	Daly, Reginald A., House	1/7/1976	MASSACHUSETTS	Middlesex	Cambridge	23 Hawthorn St.
86001682	Dana--Palmer House	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	12--16 Quincy St.
76000306	Davis, William Morris, House	1/7/1976	MASSACHUSETTS	Middlesex	Cambridge	17 Francis St.
82001935	Day, Anna, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	139 Cushing St.
82001936	Deane-Williams House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	21-23 Fayette St.
90000142	DeRosay--McNamee House	3/2/1990	MASSACHUSETTS	Middlesex	Cambridge	50 Mt. Vernon St.
86002071	Divinity Hall	9/12/1986	MASSACHUSETTS	Middlesex	Cambridge	12 Divinity Ave.
82001937	Dodge, Edward, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	70 Sparks St.
86001279	Dunvegan, The	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	1654 Massachusetts Ave.
83000797	East Cambridge Historic District	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	Roughly bounded by Cambridge, Hurley and 5th Sts.
82001938	East Cambridge Savings Bank	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	292 Cambridge St.
86001280	Eliot Hall at Radcliffe College	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	51 Shepard St.
83000798	Ellis, Asa, House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	158 Auburn St.
66000364	Elmwood	10/15/1966	MASSACHUSETTS	Middlesex	Cambridge	33 Elmwood Ave.
82001939	Farwell, R.H., House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	2222-2224 Massachusetts Ave.
83000799	Fay, Issac, House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	123 Antrim St.
75000249	First Baptist Church	4/14/1975	MASSACHUSETTS	Middlesex	Cambridge	Magazine and River Sts.
83000800	Flentje, Ernst, House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	129 Magazine St.
86001282	Fogg Art Museum	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	26--32 Quincy St.
86001681	Follen Street Historic District	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	1--44 and 5--29 Follen St.
73000284	Fort Washington	4/3/1973	MASSACHUSETTS	Middlesex	Cambridge	95 Waverly St.
82001940	Fresh Pond Hotel	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	234 Lakeview Ave.
04001429	Fresh Pond Parkway--Metropolitan	1/5/2005	MASSACHUSETTS	Middlesex	Cambridge	Fresh Pond Parkway
83000801	Frost, David, House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	26 Gray St.
83000802	Frost, Elizabeth, Tenanthouse	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	35 Bowdoin St.
82001941	Frost, Robert, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	29-35 Brewster St.
82001942	Frost, Walter, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	10 Frost St.
71000686	Fuller, Margaret, House	7/2/1971	MASSACHUSETTS	Middlesex	Cambridge	71 Cherry St.
87002543	Gale, George, House	2/10/1988	MASSACHUSETTS	Middlesex	Cambridge	14--16 Clinton St.
83000803	Garfield Street Historic District	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	Garfield St. between Massachusetts Ave. and Oxford St.
100003472	George Close Company Building	3/15/2019	MASSACHUSETTS	Middlesex	Cambridge	243 Broadway
86001283	Gray Gardens East and West Histori	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	1--37 Gray Gardens E, 3--24 Gray Gardens W, 91 Garden and 60 Raymond Sts.
66000655	Gray, Asa, House	10/15/1966	MASSACHUSETTS	Middlesex	Cambridge	88 Garden St.
82001943	Greek Revival Cottage	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	59 Rice St.
83000806	Hall Tavern	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	20 Gray Gardens West St.
86001284	Hapgood, Richard, House	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	382--392 Harvard St.
86002073	Harvard Houses Historic District	9/12/1986	MASSACHUSETTS	Middlesex	Cambridge	Roughly bounded by Mt. Auburn & Grant & Cowperwaite Sts., Banks St. & Putman Ave., the Memorial River, & Boyleston St.
78000440	Harvard Lampoon Building	3/30/1978	MASSACHUSETTS	Middlesex	Cambridge	44 Bow St.
82001944	Harvard Square Historic District	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	Massachusetts Ave., Boylston and Brattle Sts.
86003654	Harvard Square Historic District (Bou	7/28/1988	MASSACHUSETTS	Middlesex	Cambridge	Roughly bounded by Harvard & Massachusetts Aves., Mt. Auburn, Winthrop, Bennett, Story & Church Sts.
78000441	Harvard Square Subway Kiosk	1/30/1978	MASSACHUSETTS	Middlesex	Cambridge	Massachusetts Ave. and Boylston St.
82001945	Harvard Street Historic District	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	Harvard St. Between Ellery and Hancock Sts.
87000500	Harvard Union	1/26/1987	MASSACHUSETTS	Middlesex	Cambridge	Quincy and Harvard Sts.
87002137	Harvard Yard Historic District	12/14/1987	MASSACHUSETTS	Middlesex	Cambridge	Roughly bounded by underpass, Broadway & Quincy Sts., Massachusetts Ave., & Peabody St.
82001946	Hastings Square Historic District	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	Roughly bounded by Rockingham, Henry, Chestnut and Brookline Sts.
70000681	Hastings, Oliver, House	12/30/1970	MASSACHUSETTS	Middlesex	Cambridge	101 Brattle St.
78000442	Hasty Pudding Club	1/9/1978	MASSACHUSETTS	Middlesex	Cambridge	12 Holyoke St.
82001947	Henderson Carriage Repository	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	2067-2089 Massachusetts Ave.
82001948	Higginson, Col. Thomas Wentworth,	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	29 Buckingham St.
83000807	Hill, Aaron, House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	17 Brown St.
83000808	Holmes, Joseph, House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	144 Coolidge Hill St.
83004030	Homer-Lovell House	12/22/1983	MASSACHUSETTS	Middlesex	Cambridge	11 Forest St.
83000809	Hooper-Eliot House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	25 Reservoir Rd.
79000355	Hooper-Lee Nichols House	6/15/1979	MASSACHUSETTS	Middlesex	Cambridge	159 Brattle St.
83000811	Howe House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	6 Appleton St.
82001949	Howells, William Dean, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	37 Concord Ave.
82001953	Hoyt, Benjamin, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	134 Otis St.
82001950	Hubbard Park Historic District	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	Hubbard Park, Mercer Circle and Sparks Sts.
82001951	Inman Square Historic District	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	Hampshire, Cambridge, and Inman Sts.
86001308	Jarvis, The	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	27 Everett St.
83000813	Jones, William R., House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	307 Harvard St.
89002285	Kennedy, F. A., Steam Bakery	1/4/1990	MASSACHUSETTS	Middlesex	Cambridge	129 Franklin St.
82001952	Kidder-Sargent-McCrehan House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	146 Rindge Ave.
82001954	Kingsley, Chester, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	10 Chester St.
86001683	Kirkland Place Historic District	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	Kirkland Pl.
82001955	Lamson, Rufus, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	72-74 Hampshire St.
82001956	Larches, The	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	22 Larch Rd.
82001957	Lechmere Point Corporation Houses	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	45-51 Gore St. and 25 3rd St.
76001970	Little, Arthur D., Inc., Building	12/8/1976	MASSACHUSETTS	Middlesex	Cambridge	Memorial Dr.
86002070	Littlefield--Roberts House	9/12/1986	MASSACHUSETTS	Middlesex	Cambridge	16 Prescott St.
66000049	Longfellow National Historic Site	10/15/1966	MASSACHUSETTS	Middlesex	Cambridge	105 Brattle St.
83000814	Lovell Block	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	1853 Massachusetts Ave.
86002076	Lovering, Joseph, House	9/12/1986	MASSACHUSETTS	Middlesex	Cambridge	38 Kirkland St.
82001958	Lowell School	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	25 Lowell St.

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

83000815	Lowell, The	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	33 Lexington Ave.
83000816	Maple Avenue Historic District	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	Maple Ave. between Marie Ave. and Broadway
82001959	Mason, Josiah, Jr., House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	11 Market St.
83000817	Mason, W. A., House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	87 Raymond St.
66000769	Massachusetts Hall, Harvard Univer	10/15/1966	MASSACHUSETTS	Middlesex	Cambridge	Harvard University Yard
82001960	McLean, Isaac, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	2218 Massachusetts Ave.
82001961	Mead, Alpheus, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	2200 Massachusetts Ave.
82001962	Melvin, Isaac, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	19 Centre St.
86001310	Memorial Drive Apartments Historic	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	983--984, 985--986, 987--989, and 992--993 Memorial Dr.
70000685	Memorial Hall, Harvard University	12/30/1970	MASSACHUSETTS	Middlesex	Cambridge	Cambridge and Quincy Sts., Harvard University campus
86001311	Montrose, The	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	1648 Massachusetts Ave.
75000254	Mount Auburn Cemetery	4/21/1975	MASSACHUSETTS	Middlesex	Cambridge	580 Mount Auburn St.
83000818	Mount Auburn Cemetery Reception	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	583 Mt. Auburn St.
05001209	New England Confectionery Compa	11/9/2005	MASSACHUSETTS	Middlesex	Cambridge	250 Massachusetts Ave.
82001963	Newman, Andrew, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	23 Fairmont St.
82001964	Norfolk Street Historic District	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	Norfolk St. between Suffolk and Austin Sts.
83000819	North Avenue Congregational Churc	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	183 Massachusetts Ave.
82001965	Noyes, J.A., House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	1 Highland St.
82001967	Odd Fellows Hall	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	536 Massachusetts Ave.
82001968	Old Cambridge Baptist Church	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	398 Harvard St.
83000821	Old Cambridge Historic District	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	Irregular pattern along Brattle St.
83000820	Old Cambridgport Historic District	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	Cherry, Harvard and Washington Sts.
73000287	Old Harvard Yard	2/6/1973	MASSACHUSETTS	Middlesex	Cambridge	Massachusetts Ave. and Cambridge St.
82001969	Opposition House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	2-4 Hancock Pl.
83000822	Orne, Sarah, House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	10 Coolidge Hill Rd.
86001312	Peabody Court Apartments	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	41--43 Linnaean St.
83000824	Porcellian Club	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	1320-24 Massachusetts Ave.
73000288	Pratt, Dexter, House	5/8/1973	MASSACHUSETTS	Middlesex	Cambridge	54 Brattle St.
82001970	Prospect Congregational Church	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	99 Prospect St.
82001971	Read, Cheney, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	135 Western Ave.
82001972	Reardon, Edmund, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	195 Erie St.
85002663	Reversible Collar Company Building	9/27/1985	MASSACHUSETTS	Middlesex	Cambridge	25--27 Mt. Auburn & 10--12 Arrow Sts.
76001999	Richards, Theodore W., House	1/7/1976	MASSACHUSETTS	Middlesex	Cambridge	15 Follen St.
82001973	River Street Firehouse	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	176 River St.
82001974	Sacred Heart Church, Rectory, Scho	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	6th and Thorndike Sts.
82001975	Salem-Auburn Streets Historic Distr	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	Salem and Auburn Sts.
76000238	Sands, Hiram, House	4/30/1976	MASSACHUSETTS	Middlesex	Cambridge	22 Putnam Ave.
82001976	Sands, Ivory, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	145 Elm St.
83000825	Saunders, William, House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	6 Prentiss St.
86002075	Sears Tower--Harvard Observatory	2/26/1987	MASSACHUSETTS	Middlesex	Cambridge	60 Garden St.
83000826	Second Cambridge Savings Bank Bui	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	11-21 Dunster St.
83000827	Second Waterhouse House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	9 Follen St.
70000732	Sever Hall, Harvard University	12/30/1970	MASSACHUSETTS	Middlesex	Cambridge	Harvard Yard
86001680	Shady Hill Historic District	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	Roughly bounded by Museum, Beacon and Holden, and Kirkland Sts., and Francis Ave.
94000546	Shell Oil Company "Spectacular" Sig	6/3/1994	MASSACHUSETTS	Middlesex	Cambridge	187 Magazine St.
82001977	Slowey, Patrick, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	73 Bolton St.
82001978	Soule, Lawrence, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	11 Russell St.
83000828	St. James Episcopal Church	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	1991 Massachusetts Ave.
83000829	St. John's Roman Catholic Church	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	2270 Massachusetts Ave.
86001313	Stanstead, The	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	19 Ware St.
86001315	Stickney--Shepard House	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	11--13 Remington St.
89001246	Stoughton, Mary Fisk, House	6/29/1989	MASSACHUSETTS	Middlesex	Cambridge	90 Brattle St.
82001979	Taylor Square Firehouse	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	113 Garden St.
86002078	Treadwell--Sparks House	9/12/1986	MASSACHUSETTS	Middlesex	Cambridge	21 Kirkland St.
82001980	Union Railway Car Barn	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	613-621 Cambridge St.
70000736	University Hall, Harvard University	12/30/1970	MASSACHUSETTS	Middlesex	Cambridge	Harvard Yard
86002081	University Museum	9/12/1986	MASSACHUSETTS	Middlesex	Cambridge	11--25 Divinity Ave.
82001981	Upper Magazine Street Historic Dist	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	Cottage, Magazine, William and Perry Sts.
82001982	Urban Rowhouse	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	40-48 Pearl St.
82001983	Urban Rowhouse	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	30-38 Pearl St.
83000831	Urban Rowhouse	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	26-32 River St.
86001343	US Post Office--Central Square	6/18/1986	MASSACHUSETTS	Middlesex	Cambridge	770 Massachusetts Ave.
83000832	Valentine Soap Workers Cottage	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	5-7 Cottage St.
83000833	Valentine Soap Workers Cottage	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	101 Pearl St.
83000834	Vinal, Albert, House	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	325 Harvard St.
94000554	Walden Street Cattle Pass	6/3/1994	MASSACHUSETTS	Middlesex	Cambridge	Adjacent to MBTA right-of-way at Walden St.
83000835	Ware Hall	6/30/1983	MASSACHUSETTS	Middlesex	Cambridge	383 Harvard St.
86001317	Warren, Langford H., House	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	6 Garden Terr.
82001984	Watson, Abraham, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	181-183 Sherman St.
82001985	Willis, Stillman, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	1 Potter Park
82001986	Winter Street Historic District	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	Winter St.
86001318	Withey, S. B., House	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	10 Appian Way
86001319	Wood, J. A., House	5/19/1986	MASSACHUSETTS	Middlesex	Cambridge	3 Sacramento St.
82001987	Wyeth Brickyard Superintendent's H	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	336 Rindge Ave.
82001988	Wyeth, John, House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	56 Aberdeen Ave.
82001989	Wyeth-Smith House	4/13/1982	MASSACHUSETTS	Middlesex	Cambridge	152 Vassal Lane

Notes:
1. Sanborn, Head & Associates, Inc. (Sanborn Head) conducted a review of the National Register of Historic Places within Boston and Chelsea, Massachusetts. The search returned the results listed above. The Site is not listed on the National Register of Historic Places.
2. There are no results located within 0.5 mile of the Site.