Wilcox & Barton INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

August 30, 2021

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 (NOI) – Remediation General Permit (RGP) MAG910000
Construction Dewatering, 500 Talbot Avenue, Dorchester, Massachusetts

Dear Coordinator:

On behalf of 500 Talbot LLC, Wilcox & Barton, Inc. is pleased to submit this Notice of Intent (NOI) requesting coverage under the United States Environmental Protection Agency (EPA) Remediation General Permit (RGP) pursuant to the National Pollutant Discharge Elimination System (NPDES) program. This NOI has been prepared in accordance with the general requirements of the NPDES RGP and related guidance documentation. The completed NOI form is provided in **Appendix A**.

Site Information

According to the City of Boston Assessor's online database, the property consists of a 17,554 square foot (0.40-acre) parcel of land identified as Parcel ID 1601480000 with an address of 8 Argyle Street. According to other municipal record sources, the property has also been identified as 500 Talbot Avenue. According to the United States Geological Survey (USGS) topographic map for the Boston South, Massachusetts, quadrangle, the property is situated approximately 60 feet above mean sea level, generally at the base of a hill that is located to the southwest of the property. The site is relatively flat, with a slight slope downward to the northeast. Local topography slopes slightly to the east toward the Neponset River and Dorchester Bay. The location of the property is depicted on Figure 1 – *Site Location Map*.

The property was formerly occupied by a church (demolished in January 2021) and is located in a generally residential area. A release of No. 2 fuel oil was encountered during the removal of a 1,000-gallon No. 2 fuel oil underground storage tank (UST) in 2018. The release is identified by Massachusetts Department of Environmental Protection (MassDEP) Release Tracking Number (RTN) 3-34066. During removal of the UST, approximately 75 cubic yards of impacted soil were excavated and disposed off-site. Petroleum-contaminated soil and groundwater remain at the site, with free-phase oil on the water table in the vicinity of the former UST. Contaminants at the site are consistent with fuel oil; evidence of other contaminants and urban fill has not been identified other than lead in surface soil adjacent to the site building attributed to lead paint (this soil will be removed prior to construction). Subgrade materials at the property are increasingly dense with depth. Geotechnical evaluation identified glacial till at depths of 5 to 15 feet below grade. Bedrock is generally present between 9 and 15 feet below grade and groundwater has been measured at depths of approximately 4 and 10 feet below grade.

Proposed Project

The proposed project includes construction of a 5-story residential and commercial building with sub-grade parking that will occupy the majority of the parcel. During the initial phase of construction, fuel-oil impacted soil will be removed from beneath the footprint of the building. Excavation for the sub-grade portion of the building will be conducted at approximately 70% of the site, potentially extending to bedrock in some locations and requiring shoring along both Argyle and Talbot Streets.

To complete the excavation in the dry, dewatering will be required. The water generated during dewatering will pass through a treatment system prior to discharging to the municipal storm drain system.

A site plan showing the proposed building and existing site is provided as Figure 2 - *Site Plan*. The RGP discharge location is depicted on Figure 3 – *Site Vicinity Plan*.

Site Characterization

To characterize groundwater from the proposed excavation area, Wilcox & Barton, Inc. collected a representative groundwater sample from recovery well RW-1 on July 27, 2021. The sample was analyzed for various parameters in accordance with the NPDES RGP Activity Category III-G. A summary of the analytical results is provided in Table 1 – *Water Quality Data -Summary of Analytical Results* and in **Appendix A**. Copies of the laboratory data reports are provided in **Appendix B**.

For total petroleum hydrocarbons (TPH), the daily maximum influent concentration is estimated based on the sum of the extractable petroleum hydrocarbon (EPH) fractions detected in a groundwater sample collected from monitoring well MW-4 on February 23, 2017. The TPH concentration presented in the NOI (57,000 micrograms per liter) is a conservative estimate for the influent TPH concentration upon start-up of the proposed treatment system.

Discharge and Receiving Surface Water Information

The proposed discharge will be to an existing stormwater outfall (SDO090) at the Neponset River (MA01093), Segment ID MA73-04, with conveyance by the municipal stormwater system as approved by the municipality. The existing municipal outfall to the Neponset River is shown on Figure 3 – *Site Vicinity Plan.*

All uses of the receiving water are impaired, including fish consumption, primary contact recreation, secondary contact recreation, aesthetics, and shellfish harvesting. Pollutants include:

- Debris
- Trash
- Cause unknown (contaminants in fish or shellfish)
- Dissolved Oxygen
- Enterococcus
- Fecal coliform
- Polychlorinated biphenyls (PCBs) in fish tissue
- Turbidity

A Total Maximum Daily Load (TMDL) for pathogens for has been established for the receiving water (EPA TMDL No. 2592).

Analytical data for a sample collected from the receiving water at the outfall are presented in Table 1.

Treatment System

Extracted groundwater will be processed through a fractionation tank, bag filters to remove fine sediment (and adsorbed contaminants), and two 1,000-lb granular activated carbon units plumbed in series. The design and maximum flow rate will be 50 gallons per minute, with an expected average flow rate in the range of 20 to 35 gallons per minute. Aeration may be used within the fractionation tank to encourage oxidation of dissolved metals. In addition, a 0.5-micron cartridge filter may be added following the carbon vessels if copper exceeds acceptable levels during the initial discharge. Flow is expected to vary as dewatering operations reach different strata and, eventually, the bedrock surface.

A water treatment system schematic is provided as Figure 4 – *Groundwater Treatment System Diagram*.

Consultation with Federal Services

An informal consultation with the United States Fish and Wildlife Service was conducted and no threatened species were found in the vicinity of the project.

No formal consultation with the National Marine Fisheries Service (NMFS) was conducted. Review of the Endangered Species Act Section 7 Mapper did indicate the potential presence of the Atlantic and Shortnose Sturgeon and Atlantic Large Whales (North Atlantic Right Whale and Fin Whale) in or near the Neponset River. According to the NMFS criterion, stressors to the aquatic life and their habitats were evaluated in relation to the proposed project activities. No in-land project activities will likely disturb the indicated species or their habitats, and contaminants will be removed through the water treatment system to acceptable levels in accordance with the EPA and Massachusetts regulations prior to discharging into the municipal storm drain system. Water quality changes at the existing outfall location as a result of the proposed wastewater discharges will not likely affect the indicated species or their habitats.

Reports outlining the findings of these reviews are provided in **Appendix C**.

Based on a review of the U.S. National Register of Historic Places and the Massachusetts Cultural Resource Information System (MACRIS) and communications with the Boston Landmarks Commission, no historic properties have been identified at the project site. The nearest historical properties are the Rozenberg Brothers and Smith Three-Deckers located at 472 and 474 Talbot Avenue. These properties are located immediately north of the site and are not expected to be affected by the proposed discharge or associated activities. Supporting documentation is provided in **Appendix D**.

Coverage Under the RGP

On behalf of 500 Talbot, LLC, we are requesting coverage under the NPDES RGP for the discharge of treated wastewater to the Neponset River in support of construction dewatering activities that are to take place at 8 Argyle Street, Dorchester, Massachusetts. It is our opinion that the proposed discharge is eligible for the requested coverage.

The enclosed NOI form provides required information on general site conditions, proposed discharge, treatment system, receiving water, and consultation with federal services. For this project, 500 Talbot, LLC is considered the Operator and has operational control over the construction plans and specifications, including the ability to make modifications to those plans and specifications.

If you have any questions, or require additional information, please do not hesitate to contact either of the undersigned.

Very truly yours,

Barrett L. Smith, CPG, LEP
Senior Hydrogeologist

Amy A. Roth, P.G., LSP
Associate Vice President

Attachments
Table 1 – NPDES Discharge Permitting Samples – Summary of Analytical Results
Figure 1 – Site Location Map
Figure 2 – Site Plan
Figure 3 – Site Vicinity Plan
Figure 4 – Groundwater Treatment System Diagram
Appendix A – NOI Form
Appendix B – Laboratory Data
Appendix C – Supporting Documents Concerning Endangered Species
Appendix D – Supporting Documents Concerning Historic Properties

TABLE 1
NPDES Discharge Permitting Samples - Summary of Analytical Results
500 Talbot Avenue
8 Argyle Street, Dorchester, Massachusetts
MassDEP RTN 3-34066
[see notes at end of table]

Sample Identification Sample Date	RW-1 (Influent) 7/27/21		OF-1 (Receiving Water) 7/27/21	
Volatile Organic Compounds by EPA Method 624.1				
Acetone	50	U	8.02	J
tert-Amyl Methyl Ether (TAME)	0.50	U	0.50	U
Benzene	3.2		1.0	U
Bromodichloromethane	2.0	U	2.0	U
Bromoform	2.0	U	2.0	U
Bromomethane	5.0	U	5.0	U
tert-Butyl Alcohol (TBA)	20	U	20	U
Carbon Tetrachloride	2.0	U	2.0	U
Chlorobenzene	2.0	U	2.0	U
Chlorodibromomethane	2.0	U	2.0	U
Chloroethane	2.0	U	2.0	U
Chloroform	2.0	U	0.42	J
Chloromethane	2.0	U	2.0	U
1,2-Dichlorobenzene	2.0	U	2.0	U
1,3-Dichlorobenzene	2.0	U	2.0	U
1,4-Dichlorobenzene	2.0	U	2.0	U
1,2-Dichloroethane	2.0	U	2.0	U
cis-1,2-Dichloroethylene	1.0	U	1.0	U
1,1-Dichloroethane	2.0	U	2.0	U
1,1-Dichloroethylene	2.0	U	2.0	U
trans-1,2-Dichloroethylene	2.0	U	2.0	U
1,2-Dichloropropane	2.0	U	2.0	U
cis-1,3-Dichloropropene	2.0	U	2.0	U
1,4-Dioxane	50	U	50	U
trans-1,3-Dichloropropene	2.0	U	2.0	U
Ethanol	50	U	50	U
Ethylbenzene	45		0.12	J
Methyl tert-Butyl Ether (MTBE)	2.0	U	2.0	U
Methylene Chloride	0.3	J	5.0	U
1,1,2,2-Tetrachloroethane	2.0	U	2.0	U
Tetrachloroethylene	2.0	U	0.47	J
Toluene	1.0	U	0.15	J
1,1,1-Trichloroethane	2.0	U	2.0	U
1,1,2-Trichloroethane	2.0	U	2.0	U
Trichloroethylene	2.0	U	2.0	U
Trichlorofluoromethane (Freon 11)	2.0	U	2.0	U
Vinyl Chloride	2.0	U	2.0	U
m+p Xylene	27.5		2.0	U
o-Xylene	6.9		1.0	U
Total Xylenes	34.4		3.0	U

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500 Talbot Avenue
8 Argyle Street, Dorchester, Massachusetts
MassDEP RTN 3-34066
[see notes at end of table]

Sample Identification Sample Date	RW-1 (Influent) 7/27/21		OF-1 (Receiving Water) 7/27/21	
Drinking Water Organics by EPA Method 504.1				
1,2-Dibromoethane (EDB)	0.020	U	0.019	U
Total Petroleum Hydrocarbons (TPH) (mg/L)				
TPH (#2 Fuel Oil)	57*		0.36	
Semivolatile Organic Compounds (SVOCs) by EPA Method 625.1				
Benzo(a)anthracene	0.049	U	0.048	U
Benzo(a)pyrene	0.026	J	0.10	U
Benzo(b)fluoranthene	0.034	J	0.048	U
Benzo(k)fluoranthene	0.20	U	0.19	U
Chrysene	0.04	J	0.19	U
Dibenz(a,h)anthracene	0.098	U	0.10	U
Indeno(1,2,3-cd)pyrene	0.098	U	0.10	U
Pentachlorophenol	0.98	U	1.0	U
Acenaphthene	2.96	J	4.83	U
Acenaphthylene	0.53	J	4.83	U
Anthracene	4.9	U	4.83	U
Benzo(g,h,i)perylene	4.9	U	4.83	U
Di-n-butylphthalate	9.8	U	9.7	U
Diethylphthalate	9.8	U	9.7	U
Dimethylphthalate	9.8	U	9.7	U
Di-n-octylphthalate	9.8	U	9.7	U
Bis(2-Ethylhexyl)phthalate	9.8	U	9.7	U
Fluoranthene	4.9	U	4.83	U
Fluorene	3.66	J	4.83	U
Naphthalene	21.3		4.83	U
Phenanthrene	2.65	J	4.83	U
Pyrene	4.9	U	4.8	U
Polychlorinated Byphenyls (PCBs) by EPA Method 608.3				
Aroclor-1016	0.0500	U	0.048	U
Aroclor-1221	0.0500	U	0.048	U
Aroclor-1232	0.0500	U	0.048	U
Aroclor-1242	0.0500	U	0.048	U
Aroclor-1248	0.0500	U	0.048	U
Aroclor-1254	0.0500	U	0.048	U
Aroclor-1260	0.0500	U	0.048	U

TABLE 1
NPDES Discharge Permitting Samples - Summary of Analytical Results
500 Talbot Avenue
8 Argyle Street, Dorchester, Massachusetts
MassDEP RTN 3-34066
[see notes at end of table]

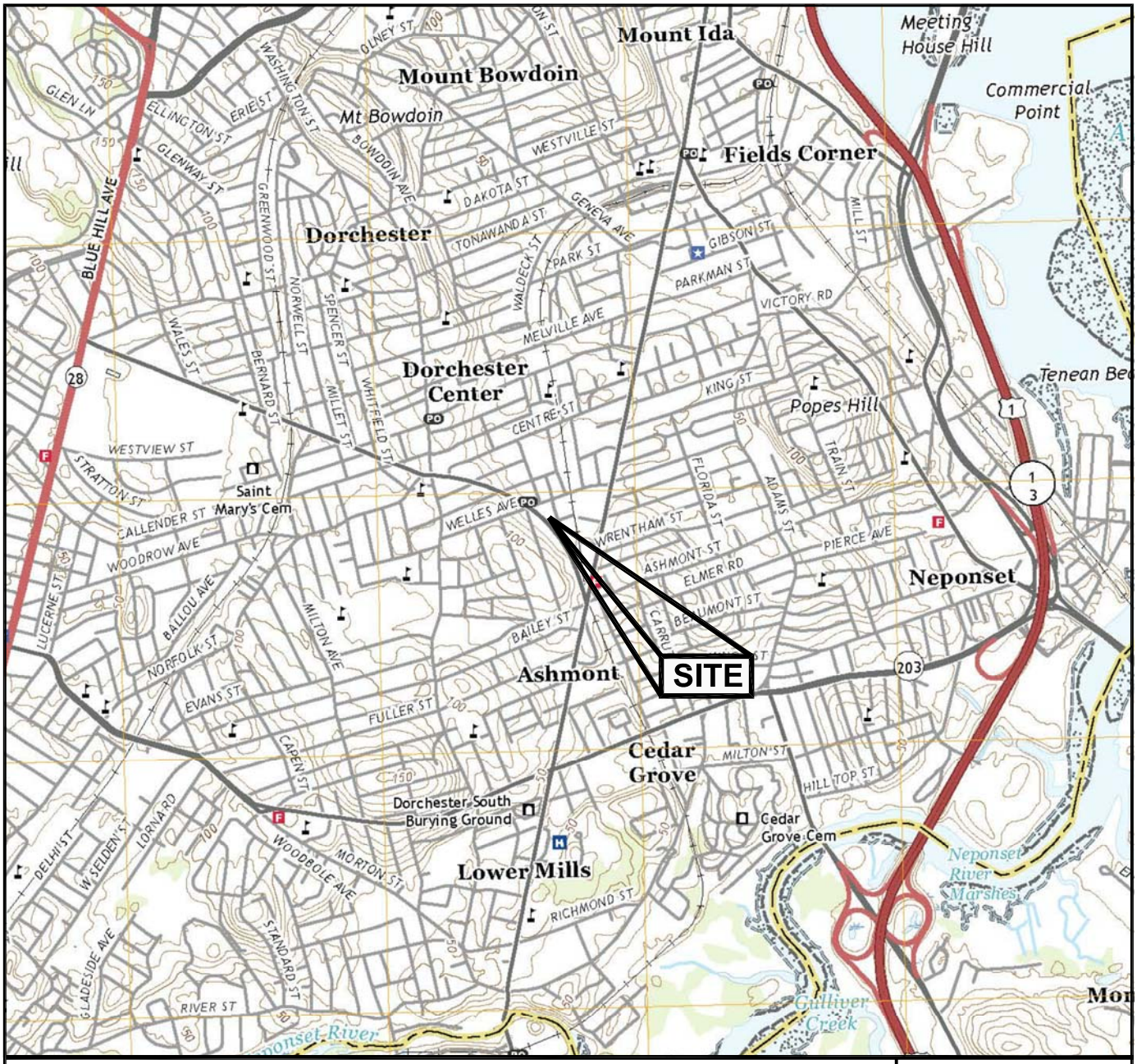
Sample Identification Sample Date	RW-1 (Influent) 7/27/21		OF-1 (Receiving Water) 7/27/21	
Total Metals by EPA 200 series Methods				
Antimony	1.0	U	5.0	UJ
Arsenic	6.5		17	
Barium	72		130	
Beryllium	0.4	U	2.0	UJ
Cadmium	0.2	U	1.0	UJ
Chromium	1.7		5.9	
Cobalt	10		5.0	UJ
Copper	9.9		55	
Lead	24		1.5	
Manganese	6,700		810	
Nickel	5.0	U	25	UJ
Selenium	1.0	J	9.6	J
Silver	0.20	U	1.0	UJ
Thallium	0.20	U	1.0	U
Vanadium	5.0	U	25	U
Zinc	49		12	
Aluminum	2,100		250	UJ
Calcium	42,000		190,000	
Chromium, Trivalent	1.7		5.9	
Iron	13,000		1,300	
Magnesium	6,700		540,000	
Mercury	0.00010	U	0.00010	U
Potassium	2,500		190,000	
Sodium	72,000		4,500,000	
Hardness	130,000		2,700,000	
Conventional Chemistry Parameters by EPA SW-846 Methods (Total) (mg/L)				
Ammonia as N	0.56		1.4	
Chloride	88		8,200	
Chlorine, Residual	0.34		0.020	U
Hexavalent Chromium	0.004	U	0.004	U
Phenol	0.094		0.050	U
Total Suspended Solids	150		19	
Silica Gel Treated HEM (SGT-HEM)	1.5	U	1.40	U
Cyanide, Total	0.01	U	0.0010	J

Results in micrograms per liter (µg/L) unless otherwise indicated.

U Not detected at or above the listed laboratory reporting limit.
J Estimated concentration.
* Estimated influent TPH concentration based on total extractable petroleum hydrocarbon (EPH) concentration in groundwater sample collected from monitoring well MW-4.

TABLE

FIGURES



SCALE: 1:24,000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

DATE	SCALE	FILE
April 3, 2020	As shown	JPAD0001_Site Location Map
APPROVED BY: AAR	DRAWN BY: JTD	REVISED

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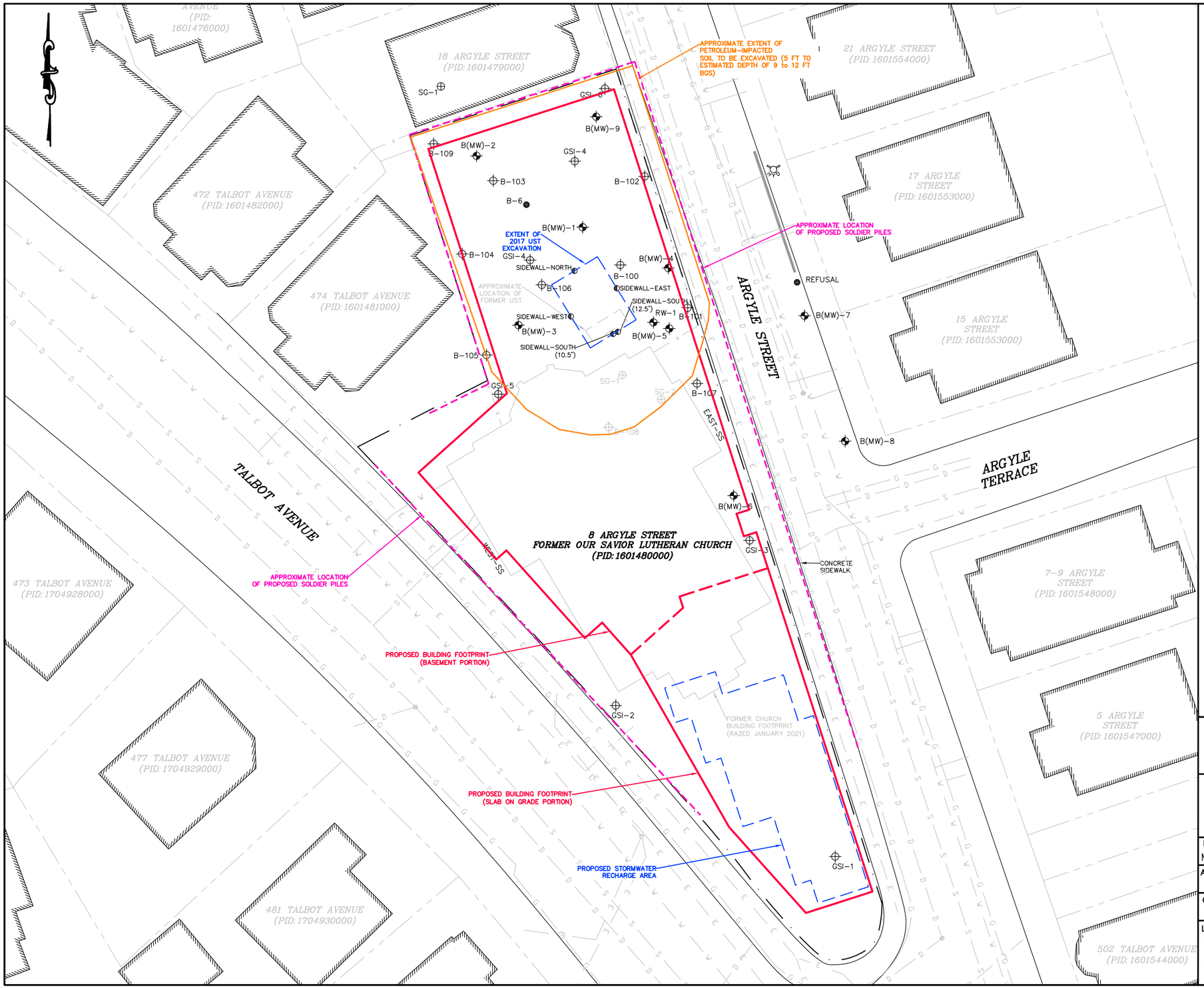
CLIENT	JOB NUMBER
500 Talbot, LLC	JPAD0001
LOCATION Former Our Saviour's Lutheran Chruch 8 Argyle Street Dorchester, Massachusetts RTN 3-34066	**MAP SOURCE** Boston South, MA USGS QUAD 2018

SITE LOCATION MAP

Figure 1



LEGEND

- APPROXIMATE PROPERTY BOUNDARY (SUBJECT PROPERTY)
- APPROXIMATE PROPERTY BOUNDARY (ADJACENT PROPERTY)
- E — UNDERGROUND ELECTRICAL LINE
- GAS — GAS LINE
- W — MUNICIPAL WATER LINE
- D — STORMWATER DRAINGE LINE
- X — CHAIN LINK FENCE
- B(MW)-1 — SOIL BORING/MONITORING WELL LOCATION
- B-100 — SOIL BORING LOCATION (SEPTEMBER 2019)
- B-6 — SOIL BORING LOCATION (FEBRUARY 2017)
- SIDEWALL-NORTH — CONFIRMATORY SOIL SAMPLE LOCATION
- SG-1 — SOIL GAS SAMPLE LOCATION
- FIRE HYDRANT
- (D) STORM DRAIN MANHOLE
- AST — ABOVEGROUND STORAGE TANK
- UST — UNDERGROUND STORAGE TANK
- PID — PARCEL IDENTIFICATION

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. PLAN BASED ON CITY OF BOSTON GIS MAPS AND "TOPOGRAPHIC PLAN OF LAND" PREPARED BY GREATER BOSTON SURVEYING AND ENGINEERING AND DATED 1/23/2017.
3. THIS PLAN IS NOT A PROFESSIONAL SURVEY AND IS NOT INTENDED TO ESTABLISH PROPERTY BOUNDARIES.

GRAPHIC SCALE

30 0 15 30 60

(IN FEET)

1 inch = 30 feet

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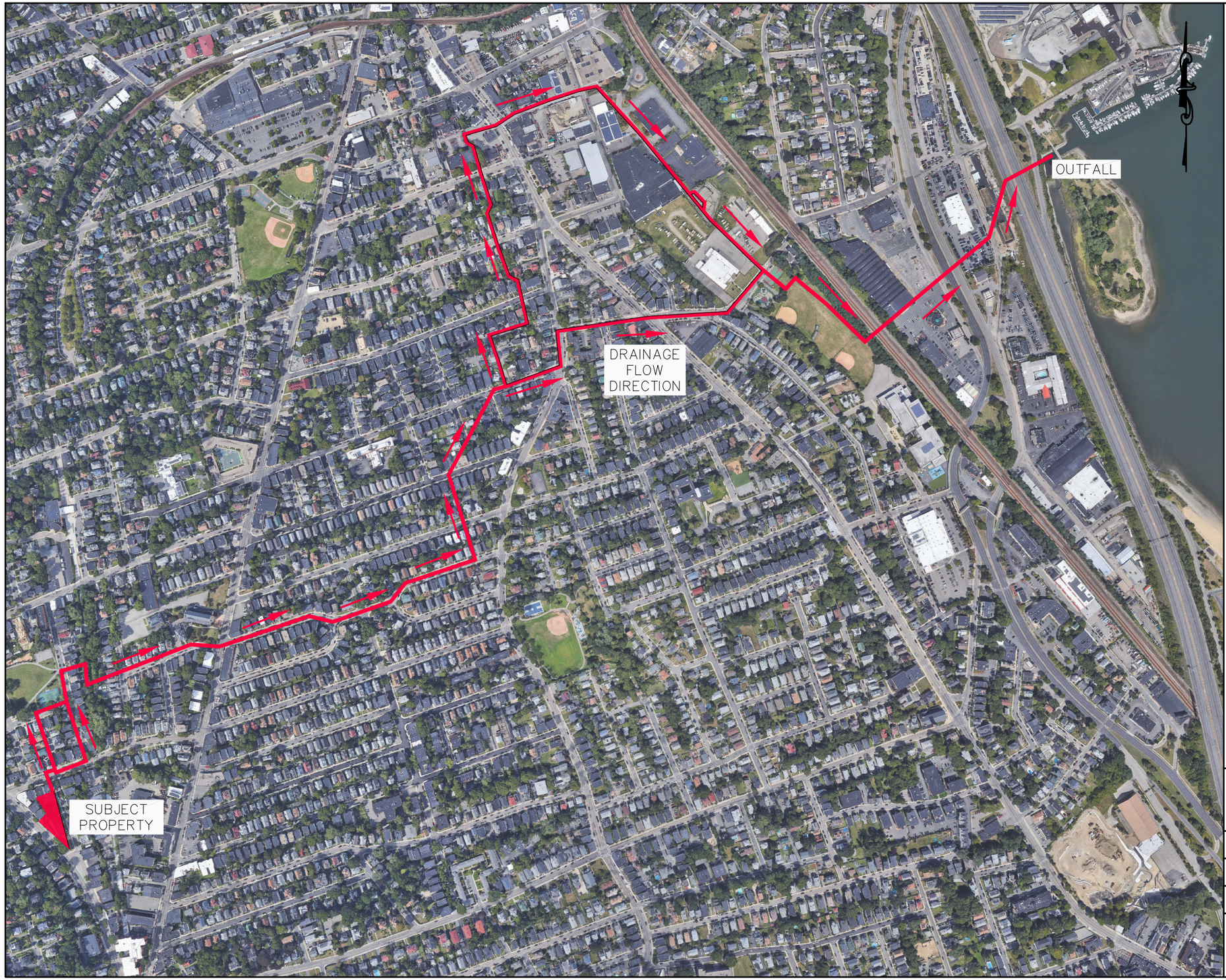
TITLE

EXCAVATION PLAN

DATE: March 20, 2017	SCALE: GRAPHIC	FILE: SPBG0001_Site Plan
APPROVED BY: AAR	DRAWN BY: BMD/CMM	REVISED: March 3, 2021
CLIENT: 500 Talbot, LLC		JOB NUMBER: JPAD0001
LOCATION: Former Our Saviour's Lutheran Church 8 Argyle Street Dorchester, Massachusetts RTN 3-34066		DRAWING NUMBER: **FIGURE 2**



LEGEND

DRAIN LINE

NOTES

1. LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. PLAN BASED ON INFORMATION PROVIDED BY BOSTON WATER AND SEWER COMISSION, AND WILCOX & BARTON, INC. SITE VISITS.

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)
1 inch = 200 feet

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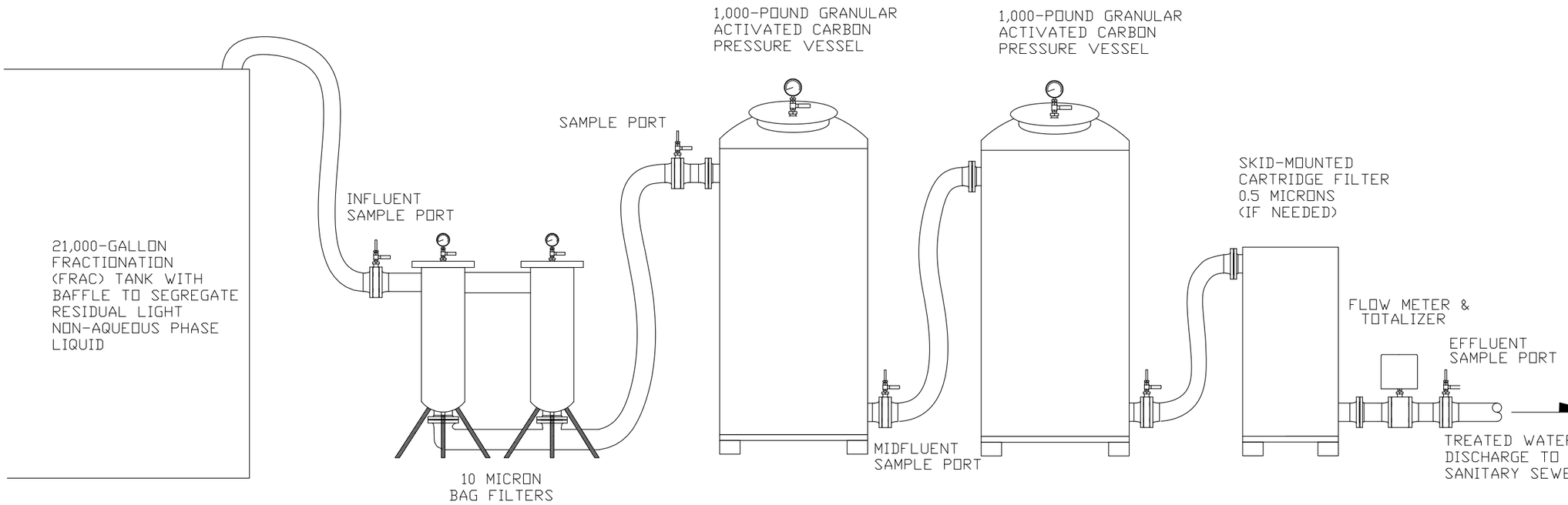
TITLE

SITE VICINITY PLAN

DATE: August 25, 2021	SCALE: GRAPHIC	FILE: JPAD0001_Site Vic.
APPROVED BY: BLS	DRAWN BY: BD	REVISED:
CLIENT: 500 Talbot, LLC		JOB NUMBER: JPAD0001
LOCATION: 500 Talbot Ave 8 Argyle Street Dorchester, Massachusetts		DRAWING NUMBER: *FIGURE 3*



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TITLE
GROUNDWATER TREATMENT SYSTEM DIAGRAM

DATE: August 11, 2021	SCALE: Not to Scale	FILE: JPAD0001_Site Plan
APPROVED BY: AAR	DRAWN BY: JTD	REVISED:
CLIENT: 500 Talbot, LLC		JOB NUMBER: JPAD0001
LOCATION: Former Our Savior's Lutheran Church 8 Argyle Street Dorchester, Massachusetts RTN 3-34066		DRAWING NUMBER: FIGURE 4

APPENDIX A

Notice of Intent Form

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

A. General site information:

<table>
<tr><td rowspan="2">1. Name of site:
500 Talbot Avenue</td><td colspan="3">Site address: 8 Argyle Street
Street:</td></tr>
<tr><td>City: Dorchester</td><td>State: MA</td><td>Zip: 02124</td></tr>
<tr><td rowspan="4">2. Site owner
500 Talbot, LLC

Owner is (check one): ☐ Federal ☐ State/Tribal ■ Private
☐ Other; if so, specify:</td><td colspan="3">Contact Person: James Baker</td></tr>
<tr><td colspan="2">Telephone: 617-504-9248</td><td>Email: jbaker@jpamgmt.com</td></tr>
<tr><td colspan="3">Mailing address: c/o JPA Development Company, Inc.
Street: 45 Braintree Hill Office Park, Site 402</td></tr>
<tr><td>City: Braintree</td><td>State: MA</td><td>Zip: 02184</td></tr>
<tr><td rowspan="4">3. Site operator, if different than owner
JMB Property Development Company, Inc.</td><td colspan="3">Contact Person: James Baker</td></tr>
<tr><td colspan="2">Telephone: 617-504-9248</td><td>Email: jbaker@jpamgmt.com</td></tr>
<tr><td colspan="3">Mailing address:
Street: 110 Savin Hill Avenue</td></tr>
<tr><td>City: Dorchester</td><td>State: MA</td><td>Zip: 02125</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):
RTN 3-34066
☐ 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):
Neponset River, Boston Harbor Watershed	MA0193, Segment ID MA73-04	Class SB

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

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

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

3. Indicate if the receiving water(s) is listed in the State's Integrated List of Waters (i.e., CWA Section 303(d)). Include which designated uses are impaired, and any pollutants indicated. Also, indicate if a final TMDL is available for any of the indicated pollutants. For more information, contact the appropriate State as noted in Part 4.6 of the RGP. See cover letter.

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.	Not applicable
5. Indicate the requested dilution factor for the calculation of water quality-based effluent limitations (WQBELs) determined in accordance with the instructions in Appendix V for sites in Massachusetts and Appendix VI for sites in New Hampshire.	1

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: August 10, 2021

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

C. Source water information:

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

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

2. Source water contaminants: Petroleum hydrocarbons, PAHs, BTEX, Lead	
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): SDO090	Outfall location(s): (Latitude, Longitude) 42.29824, -71.04664
Discharges enter the receiving water(s) via (check any that apply): ■ Direct discharge to the receiving water ☐ Indirect discharge, if so, specify: ☐ A private storm sewer system ■ A municipal storm sewer system If the discharge enters the receiving water via a private or municipal storm sewer system: Has notification been provided to the owner of this system? (check one): ■ Yes ☐ No Has the operator has received permission from the owner to use such system for discharges? (check one): ☐ Yes ■ No, if so, explain, with an estimated timeframe for obtaining permission: A BWSC Dewatering Discharge Application will be submitted in tandem with this NOI. Has the operator attached a summary of any additional requirements the owner of this system has specified? (check one): ☐ Yes ■ No	
Provide the expected start and end dates of discharge(s) (month/year): September 2021 through March 2022 Indicate if the discharge is expected to occur over a duration of: ■ less than 12 months ☐ 12 months or more ☐ is an emergency discharge	
Has the operator attached a site plan in accordance with the instructions in D, above? (check one): ■ Yes ☐ No	

<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="5">■ 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		✓	1	4500	300	560		Report mg/L	---
Chloride		✓	1	300.0	5,000	88,000		Report µg/l	---
Total Residual Chlorine		✓	1	4500	200	340		0.2 mg/L	
Total Suspended Solids		✓	1	2540D	4,500	150,000		30 mg/L	---
Antimony	✓		1	200.8	1.0			206 µg/L	
Arsenic		✓	1	200.8	0.8	6.5		104 µg/L	
Cadmium	✓		1	200.8	0.2			10.2 µg/L	
Chromium III		✓	1	200.8	1.0	1.7		323 µg/L	
Chromium VI	✓		1	3500	4.0			323 µg/L	
Copper		✓	1	200.8	1.0	9.9		242 µg/L	
Iron		✓	1	200.7	50	13,000		5,000 µg/L	
Lead		✓	1	200.8	0.5	24		160 µg/L	
Mercury	✓		1	245.1	0.1			0.739 µg/L	
Nickel	✓		1	200.8	5			1,450 µg/L	
Selenium		✓	1	200.8	0.78	1.0		235.8 µg/L	
Silver	✓		1	200.8	0.2			35.1 µg/L	
Zinc		✓	1	200.8	10	49		420 µg/L	
Cyanide	✓		1	4500	5			178 mg/L	
B. Non-Halogenated VOCs									
Total BTEX		✓	1	624.1	0.78	83		100 µg/L	---
Benzene		✓	1	624.1	0.14	3.2		5.0 µg/L	---
1,4 Dioxane	✓		1	624.1	22.5			200 µg/L	---
Acetone	✓		1	624.1	3.79			7.97 mg/L	---
Phenol		✓	1	420.1	50	94		1,080 µg/L	

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
C. Halogenated VOCs									
Carbon Tetrachloride	✓		1	624.1	0.170			4.4 µg/L	
1,2 Dichlorobenzene	✓		1	624.1	0.100			600 µg/L	---
1,3 Dichlorobenzene	✓		1	624.1	0.0900			320 µg/L	---
1,4 Dichlorobenzene	✓		1	624.1	0.110			5.0 µg/L	---
Total dichlorobenzene	✓		1	624.1	0.300			763 µg/L in NH	---
1,1 Dichloroethane	✓		1	624.1	0.320			70 µg/L	---
1,2 Dichloroethane	✓		1	624.1	0.320			5.0 µg/L	---
1,1 Dichloroethylene	✓		1	624.1	0.110			3.2 µg/L	---
Ethylene Dibromide	✓		1	504.1	0.020			0.05 µg/L	---
Methylene Chloride		✓	1	624.1	0.300	0.31		4.6 µg/L	---
1,1,1 Trichloroethane	✓		1	624.1	0.170			200 µg/L	---
1,1,2 Trichloroethane	✓		1	624.1	0.150			5.0 µg/L	---
Trichloroethylene	✓		1	624.1	0.180			5.0 µg/L	---
Tetrachloroethylene	✓		1	624.1	0.200			5.0 µg/L	
cis-1,2 Dichloroethylene	✓		1	624.1	0.150			70 µg/L	---
Vinyl Chloride	✓		1	614.1	0.200			2.0 µg/L	---
D. Non-Halogenated SVOCs									
Total Phthalates	✓		1	625.1	7.74			190 µg/L	
Diethylhexyl phthalate	✓		1	625.1	0.906			101 µg/L	
Total Group I PAHs		✓	1	625.1	0.178	0.1		1.0 µg/L	---
Benzo(a)anthracene	✓		1	625.1	0.034			As Total PAHs	
Benzo(a)pyrene		✓	1	625.1	0.022	0.026			
Benzo(b)fluoranthene		✓	1	625.1	0.027	0.034			
Benzo(k)fluoranthene	✓		1	625.1	0.018				
Chrysene		✓	1	625.1	0.022	0.04			
Dibenzo(a,h)anthracene	✓		1	625.1	0.028				
Indeno(1,2,3-cd)pyrene			1	625.1	0.027				

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
Total Group II PAHs		✓	1	625.1	2.89	31.1		100 µg/L	---
Naphthalene		✓	1	625.1	0.42	21.3		20 µg/L	---
E. Halogenated SVOCs									
Total PCBs	✓		1	608.3	0.047			0.000064 µg/L	---
Pentachlorophenol	✓		1	625.1	0.39			1.0 µg/L	---
F. Fuels Parameters									
Total Petroleum Hydrocarbons		✓	1	1664B	1,500	57,000		5.0 mg/L	---
Ethanol	✓		1	624.1	34.2			Report mg/L	---
Methyl-tert-Butyl Ether	✓		1	624.1	0.17			70 µg/L	
tert-Butyl Alcohol	✓		1	624.1	5.34			120 µg/L in MA 40 µg/L in NH	---
tert-Amyl Methyl Ether	✓		1	624.1	0.15			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:									
Aluminum		✓	1	200.7	250	2,100			
Barium		✓	1	200.8	10	72			
Beryllium	✓		1	200.8	0.4				
Calcium		✓	1	200.7	500	42,000			
Cobalt		✓	1	200.8	1.0	10			
Magnesium		✓	1	200.7	50	6,700			
Manganese		✓	1	200.8	100	6,700			
Potassium		✓	1	200.7	2,000	2,500			
Sodium		✓	1	200.7	2,000	72,000			
Thallium	✓		1	200.8	0.2				
Vanadium	✓		1	200.8	5.0				
Hardness		✓	1	200.7	1,400	130,000			

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.
20,000-fractionation tank, sediment (bag) filters, 2 x 1,000-galllon granular activated carbon canisters run in series, skid-mounted cartridge filter (if needed), totalizing flow meter

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: Cartridge filter (if needed)

Indicate if either of the following will occur (check any that apply):
☐ Chlorination ☐ De-chlorination

3. Provide the **design flow capacity** in gallons per minute (gpm) of the most limiting component. Indicate the most limiting component: Carbon filters Is use of a flow meter feasible? (check one): ■ Yes ☐ No, if so, provide justification:	50
Provide the proposed maximum effluent flow in gpm.	50
Provide the average effluent flow in gpm.	30
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:

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

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

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

G. Endangered Species Act eligibility determination

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

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

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

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

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

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

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

H. National Historic Preservation Act eligibility determination

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

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

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

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

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

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

I. Supplemental information

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

Table 1 – Water Quality Data – Summary of Analytical Results, Figure 1 – Site Location Map, Figure 2 – Site Plan, Figure 3 – Site Vicinity Plan, Figure 4 – Groundwater Treatment System Diagram, Appendix B – Laboratory Data, Appendix C – Supplemental Information.

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 per Part 2.5.1.c of the RGP.
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: 500 TALBOT, LLC	Date: 8/30/21
Print Name and Title: JAMES M. BAKER, MEMBER	

Enter number values in green boxes based on the instructions to the right

Enter values in the units specified

↓	
0	Q_R = Enter upstream flow in **MGD**
0.072	Q_P = Enter discharge flow in **MGD**
0	Downstream 7Q10

Enter a dilution factor for saltwater receiving water (this box does not apply to freshwater receiving waters)

↓
0

Enter values in the units specified

↓	
0	C_d = Enter influent hardness in **mg/L** $CaCO_3$
0	C_s = Enter receiving water hardness in **mg/L** $CaCO_3$

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

↓		Impaired for metals?
		↓
7.81	pH in **Standard Units**	
19	Temperature in **°C**	
1.4	Ammonia in **mg/L**	
2700	Hardness in **mg/L** $CaCO_3$	
14.8	Salinity in **ppt**	
0	Antimony in **µg/L**	no
17	Arsenic in **µg/L**	no
0	Cadmium in **µg/L**	yes
5.9	Chromium III in **µg/L**	yes
0	Chromium VI in **µg/L**	yes
55	Copper in **µg/L**	yes
1,300	Iron in **µg/L**	yes
1.5	Lead in **µg/L**	yes
0	Mercury in **µg/L**	yes
0	Nickel in **µg/L**	yes
9.6	Selenium in **µg/L**	yes
0	Silver in **µg/L**	yes

12	Zinc in **µg/L**	yes

Enter **influent** concentrations in the units specified

↓

340	TRC in **µg/L**
0.56	Ammonia in **mg/L**
0	Antimony in **µg/L**
6.5	Arsenic in **µg/L**
0	Cadmium in **µg/L**
1.7	Chromium III in **µg/L**
0	Chromium VI in **µg/L**
9.9	Copper in **µg/L**
13,000	Iron in **µg/L**
24	Lead in **µg/L**
0	Mercury in **µg/L**
0	Nickel in **µg/L**
1	Selenium in **µg/L**
0	Silver in **µg/L**
49	Zinc in **µg/L**
0	Cyanide in **µg/L**
94	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**
0.026	Benzo(a)pyrene in **µg/L**
0.034	Benzo(b)fluoranthene in **µg/L**
0	Benzo(k)fluoranthene in **µg/L**
0.04	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**

Notes: Revised 1-24-20

Freshwater: leave 0 unless 7Q10 or alternate Q_R AND a dilution factor >1 approved by the State;
Saltwater (estuarine and marine): leave 0 unless QR approved by the State

Enter the design flow or 1 MGD, whichever is less (100 gpm design flow = 0.144 MGD and is entered by

Leave 0 unless Q_R approved by the State

Freshwater: leave 0
Saltwater (estuarine and marine): leave 0 unless DF approved by the State

Applies to freshwater receiving waters only

pH, temperature, and ammonia required for all discharges

Hardness required for freshwater

Salinity required for saltwater (estuarine and marine)

Metals required for all discharges if detected in the influent and if dilution factor approved by State

Enter 0 if non-detect or testing not required

If receiving water is not listed as impaired for metals in State 303(d) List, change to "no" using dropdown

if >1 sample, enter maximum influent measurement
if >10 samples, may enter 95th percentile of influent measurements using
EPA's *Technical Support Document for Water Quality-based Toxics Control*
Enter 0 if non-detect or testing not required

APPENDIX B

Laboratory Data

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 10, 2021

John DeMille
Wilcox & Barton
50 Pierce Ave.
Hanson, MA 02341

Project Location: 500 Talbot St.
Client Job Number:
Project Number: JPAD0001
Laboratory Work Order Number: 21G1513

Enclosed are results of analyses for samples received by the laboratory on July 27, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Scott C. Basal
Project Manager

Table of Contents

Table of Contents (continued)

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Wilcox & Barton
50 Pierce Ave.
Hanson, MA 02341
ATTN: John DeMille

REPORT DATE: 8/10/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: JPAD0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G1513

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 500 Talbot St.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RW-1	21G1513-01	Ground Water		-	MA M-MA-086/CT PH-0574/NY11148
				608.3	
				624.1	
				625.1	
				EPA 1664B	
				EPA 200.7	
				EPA 200.8	
				EPA 245.1	
				EPA 300.0	
				EPA 420.1	
				EPA 504.1	
				SM19-23 4500 NH3 C	
				SM21-23 2540D	
				SM21-23 3500 Cr B	
				SM21-23 4500 CL G	
				SW-846 8015C	
				Tri Chrome Calc.	
OF-1	21G1513-02	Storm Water		-	MA M-MA-086/CT PH-0574/NY11148
				608.3	
				624.1	
				625.1	
				EPA 1664B	
				EPA 200.7	
				EPA 200.8	
				EPA 245.1	
				EPA 300.0	
				EPA 420.1	
				EPA 504.1	
				SM19-23 4500 NH3 C	
				SM21-23 2540D	
				SM21-23 3500 Cr B	
				SM21-23 4500 CL G	
				SW-846 8015C	
				Tri Chrome Calc.	
Trip Blank	21G1513-03	Surface Water		624.1	

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 8/10/2021 - cis-1,2-DCE added and U flag added for 624.1.

Ja flag for subcontracted results below the RL and above the MDL.

EPA 200.7

Qualifications:

DL-03

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

Aluminum
21G1513-02RE1[OF-1]

EPA 200.8

Qualifications:

DL-15

Sample required a dilution due to low internal standard recovery of the lesser diluted digestion, reporting limit is elevated.

Analyte & Samples(s) Qualified:

Antimony
21G1513-02[OF-1]

Beryllium
21G1513-02[OF-1]

Cadmium
21G1513-02[OF-1]

Cobalt
21G1513-02[OF-1]

Nickel
21G1513-02[OF-1]

Silver
21G1513-02[OF-1]

SM 4500

Qualifications:

Ja

[Undefined]

Analyte & Samples(s) Qualified:

Cyanide, Total
21G1513-02[OF-1]

SW-846 8015C

Qualifications:

O-26

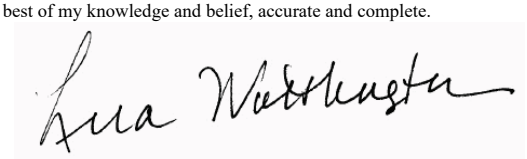
Sample contamination consists of heavy residual hydrocarbons similar to asphalt. Chromatogram also shows the presence of PAHs.

Analyte & Samples(s) Qualified:

TPH (C9-C36)
21G1513-02[OF-1]

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: RW-1 Sampled: 7/27/2021 07:35

Sample ID: 21G1513-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	<2.35	50.0	2.35	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
tert-Amyl Methyl Ether (TAME)	<0.150	0.500	0.150	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
Benzene	3.17	1.00	0.130	µg/L	1		624.1	7/29/21	7/30/21 4:28	LBD
Bromodichloromethane	<0.140	2.00	0.140	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
Bromoform	<0.290	2.00	0.290	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
Bromomethane	<1.07	5.00	1.07	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
tert-Butyl Alcohol (TBA)	<5.34	20.0	5.34	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
Carbon Tetrachloride	<0.170	2.00	0.170	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
Chlorobenzene	<0.0800	2.00	0.0800	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
Chlorodibromomethane	<0.160	2.00	0.160	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
Chloroethane	<0.370	2.00	0.370	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
Chloroform	<0.190	2.00	0.190	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
Chloromethane	<0.380	2.00	0.380	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
1,2-Dichlorobenzene	<0.100	2.00	0.100	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
1,3-Dichlorobenzene	<0.0900	2.00	0.0900	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
1,4-Dichlorobenzene	<0.110	2.00	0.110	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
1,2-Dichloroethane	<0.320	2.00	0.320	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
cis-1,2-Dichloroethylene	<0.150	1.00	0.150	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
1,1-Dichloroethane	<0.160	2.00	0.160	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
1,1-Dichloroethylene	<0.160	2.00	0.160	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
trans-1,2-Dichloroethylene	<0.170	2.00	0.170	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
1,2-Dichloropropane	<0.180	2.00	0.180	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
cis-1,3-Dichloropropene	<0.120	2.00	0.120	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
1,4-Dioxane	<21.5	50.0	21.5	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
trans-1,3-Dichloropropene	<0.150	2.00	0.150	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
Ethanol	<34.2	50.0	34.2	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
Ethylbenzene	45.4	2.00	0.0900	µg/L	1		624.1	7/29/21	7/30/21 4:28	LBD
Methyl tert-Butyl Ether (MTBE)	<0.170	2.00	0.170	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
Methylene Chloride	0.310	5.00	0.300	µg/L	1	J	624.1	7/29/21	7/30/21 4:28	LBD
1,1,2,2-Tetrachloroethane	<0.0900	2.00	0.0900	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
Tetrachloroethylene	<0.200	2.00	0.200	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
Toluene	<0.110	1.00	0.110	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
1,1,1-Trichloroethane	<0.170	2.00	0.170	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
1,1,2-Trichloroethane	<0.150	2.00	0.150	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
Trichloroethylene	<0.180	2.00	0.180	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
Trichlorofluoromethane (Freon 11)	<0.190	2.00	0.190	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
Vinyl Chloride	<0.200	2.00	0.200	µg/L	1	U	624.1	7/29/21	7/30/21 4:28	LBD
m+p Xylene	27.5	2.00	0.180	µg/L	1		624.1	7/29/21	7/30/21 4:28	LBD
o-Xylene	6.92	1.00	0.0900	µg/L	1		624.1	7/29/21	7/30/21 4:28	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.4	70-130		7/30/21 4:28
Toluene-d8	92.9	70-130		7/30/21 4:28
4-Bromofluorobenzene	100	70-130		7/30/21 4:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: RW-1 Sampled: 7/27/2021 07:35

Sample ID: 21G1513-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene (SIM)	<0.034	0.049	0.034	µg/L	1		625.1	7/29/21	7/30/21 13:26	IMR
Benzo(a)pyrene (SIM)	0.026	0.098	0.022	µg/L	1	J	625.1	7/29/21	7/30/21 13:26	IMR
Benzo(b)fluoranthene (SIM)	0.034	0.049	0.027	µg/L	1	J	625.1	7/29/21	7/30/21 13:26	IMR
Benzo(k)fluoranthene (SIM)	<0.018	0.20	0.018	µg/L	1		625.1	7/29/21	7/30/21 13:26	IMR
Chrysene (SIM)	0.040	0.20	0.022	µg/L	1	J	625.1	7/29/21	7/30/21 13:26	IMR
Dibenz(a,h)anthracene (SIM)	<0.028	0.098	0.028	µg/L	1		625.1	7/29/21	7/30/21 13:26	IMR
Indeno(1,2,3-cd)pyrene (SIM)	<0.027	0.098	0.027	µg/L	1		625.1	7/29/21	7/30/21 13:26	IMR
Pentachlorophenol (SIM)	<0.39	0.98	0.39	µg/L	1		625.1	7/29/21	7/30/21 13:26	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	40.9	15-110		7/30/21 13:26
Phenol-d6 (SIM)	37.1	15-110		7/30/21 13:26
Nitrobenzene-d5	59.4	30-130		7/30/21 13:26
2-Fluorobiphenyl	49.3	30-130		7/30/21 13:26
2,4,6-Tribromophenol (SIM)	65.7	15-110		7/30/21 13:26
p-Terphenyl-d14	72.8	30-130		7/30/21 13:26

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Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: RW-1 Sampled: 7/27/2021 07:35

Sample ID: 21G1513-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	2.96	4.90	0.328	µg/L	1	J	625.1	7/29/21	7/30/21 18:56	IMR
Acenaphthylene	0.529	4.90	0.315	µg/L	1	J	625.1	7/29/21	7/30/21 18:56	IMR
Anthracene	<0.388	4.90	0.388	µg/L	1		625.1	7/29/21	7/30/21 18:56	IMR
Benzo(g,h,i)perylene	<0.627	4.90	0.627	µg/L	1		625.1	7/29/21	7/30/21 18:56	IMR
Di-n-butylphthalate	<0.487	9.80	0.487	µg/L	1		625.1	7/29/21	7/30/21 18:56	IMR
Diethylphthalate	<0.472	9.80	0.472	µg/L	1		625.1	7/29/21	7/30/21 18:56	IMR
Dimethylphthalate	<0.394	9.80	0.394	µg/L	1		625.1	7/29/21	7/30/21 18:56	IMR
Di-n-octylphthalate	<5.49	9.80	5.49	µg/L	1		625.1	7/29/21	7/30/21 18:56	IMR
Bis(2-Ethylhexyl)phthalate	<0.906	9.80	0.906	µg/L	1		625.1	7/29/21	7/30/21 18:56	IMR
Fluoranthene	<0.363	4.90	0.363	µg/L	1		625.1	7/29/21	7/30/21 18:56	IMR
Fluorene	3.66	4.90	0.409	µg/L	1	J	625.1	7/29/21	7/30/21 18:56	IMR
Naphthalene	21.3	4.90	0.290	µg/L	1		625.1	7/29/21	7/30/21 18:56	IMR
Phenanthrene	2.65	4.90	0.389	µg/L	1	J	625.1	7/29/21	7/30/21 18:56	IMR
Pyrene	<0.464	4.90	0.464	µg/L	1		625.1	7/29/21	7/30/21 18:56	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	39.6	15-110		7/30/21 18:56
Phenol-d6	37.5	15-110		7/30/21 18:56
Nitrobenzene-d5	68.2	30-130		7/30/21 18:56
2-Fluorobiphenyl	68.1	30-130		7/30/21 18:56
2,4,6-Tribromophenol	87.2	15-110		7/30/21 18:56
p-Terphenyl-d14	93.1	30-130		7/30/21 18:56

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Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: RW-1 Sampled: 7/27/2021 07:35

Sample ID: 21G1513-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.0445	0.0500	0.0445	µg/L	1		608.3	7/30/21	8/3/21 16:05	JMB
Aroclor-1221 [1]	<0.0412	0.0500	0.0412	µg/L	1		608.3	7/30/21	8/3/21 16:05	JMB
Aroclor-1232 [1]	<0.0420	0.0500	0.0420	µg/L	1		608.3	7/30/21	8/3/21 16:05	JMB
Aroclor-1242 [1]	<0.0440	0.0500	0.0440	µg/L	1		608.3	7/30/21	8/3/21 16:05	JMB
Aroclor-1248 [1]	<0.0418	0.0500	0.0418	µg/L	1		608.3	7/30/21	8/3/21 16:05	JMB
Aroclor-1254 [1]	<0.0470	0.0500	0.0470	µg/L	1		608.3	7/30/21	8/3/21 16:05	JMB
Aroclor-1260 [1]	<0.0410	0.0500	0.0410	µg/L	1		608.3	7/30/21	8/3/21 16:05	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	133	30-150		8/3/21 16:05
Decachlorobiphenyl [2]	114	30-150		8/3/21 16:05
Tetrachloro-m-xylene [1]	124	30-150		8/3/21 16:05
Tetrachloro-m-xylene [2]	112	30-150		8/3/21 16:05

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Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: RW-1 Sampled: 7/27/2021 07:35

Sample ID: 21G1513-01

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**	**Recovery Limits**		**Flag/Qual**				
2-Fluorobiphenyl		90.7	40-140					7/30/21 17:17	

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Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: RW-1 Sampled: 7/27/2021 07:35

Sample ID: 21G1513-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2.1	0.25		mg/L	5		EPA 200.7	8/4/21	8/5/21 13:00	MJH
Antimony	ND	1.0		µg/L	1		EPA 200.8	7/30/21	8/2/21 11:08	QNW
Arsenic	6.5	0.80		µg/L	1		EPA 200.8	7/30/21	8/2/21 11:08	QNW
Barium	72	10		µg/L	1		EPA 200.8	7/30/21	8/2/21 11:08	QNW
Beryllium	ND	0.40		µg/L	1		EPA 200.8	7/30/21	8/2/21 11:08	QNW
Cadmium	ND	0.20		µg/L	1		EPA 200.8	7/30/21	8/2/21 11:08	QNW
Calcium	42	0.50		mg/L	1		EPA 200.7	7/30/21	8/3/21 12:28	QNW
Chromium	1.7	1.0		µg/L	1		EPA 200.8	7/30/21	8/2/21 11:08	QNW
Chromium, Trivalent	0.0017			mg/L	1		Tri Chrome Calc.	7/30/21	8/2/21 11:08	QNW
Cobalt	10	1.0		µg/L	1		EPA 200.8	7/30/21	8/2/21 11:08	QNW
Copper	9.9	1.0		µg/L	1		EPA 200.8	8/2/21	8/4/21 11:37	QNW
Iron	13	0.050		mg/L	1		EPA 200.7	7/30/21	8/3/21 12:28	QNW
Lead	24	0.50		µg/L	1		EPA 200.8	8/2/21	8/4/21 11:37	QNW
Magnesium	6.7	0.050		mg/L	1		EPA 200.7	7/30/21	8/3/21 12:28	QNW
Manganese	6700	100		µg/L	100		EPA 200.8	7/30/21	8/3/21 14:53	QNW
Mercury	ND	0.00010		mg/L	1		EPA 245.1	7/30/21	8/2/21 11:44	CJV
Nickel	ND	5.0		µg/L	1		EPA 200.8	7/30/21	8/2/21 11:08	QNW
Potassium	2.5	2.0		mg/L	1		EPA 200.7	7/30/21	8/3/21 12:28	QNW
Selenium	1.0	5.0	0.78	µg/L	1	J	EPA 200.8	7/30/21	8/2/21 11:08	QNW
Silver	ND	0.20		µg/L	1		EPA 200.8	7/30/21	8/2/21 11:08	QNW
Sodium	72	2.0		mg/L	1		EPA 200.7	7/30/21	8/3/21 12:28	QNW
Thallium	ND	0.20		µg/L	1		EPA 200.8	7/30/21	8/2/21 11:08	QNW
Vanadium	ND	5.0		µg/L	1		EPA 200.8	7/30/21	8/2/21 11:08	QNW
Zinc	49	10		µg/L	1		EPA 200.8	8/2/21	8/4/21 11:37	QNW
Hardness	130	1.4		mg/L	1		EPA 200.7	7/30/21	8/3/21 12:28	QNW

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Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: RW-1 Sampled: 7/27/2021 07:35

Sample ID: 21G1513-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	0.56	0.30		mg/L	1		SM19-23 4500 NH3 C	7/30/21	8/3/21 9:45	IS
Chloride	88	5.0		mg/L	5		EPA 300.0	7/30/21	7/30/21 19:47	is
Chlorine, Residual	0.34	0.20		mg/L	10		SM21-23 4500 CL G	7/27/21	7/27/21 20:00	ALG
Hexavalent Chromium	ND	0.0040		mg/L	1		SM21-23 3500 Cr B	7/27/21	7/27/21 19:15	CB2
Phenol	0.094	0.050		mg/L	1		EPA 420.1	7/28/21	8/2/21 10:45	LL
Total Suspended Solids	150	4.5		mg/L	1		SM21-23 2540D	7/29/21	7/29/21 11:55	LL
Silica Gel Treated HEM (SGT-HEM)	ND	1.5		mg/L	1		EPA 1664B	8/3/21	8/3/21 13:20	LL

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Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: RW-1 Sampled: 7/27/2021 07:35

Sample ID: 21G1513-01

Sample Matrix: Ground Water

Drinking Water Organics EPA 504.1

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2-Dibromoethane (EDB) (1)	ND	0.020	µg/L	1		EPA 504.1	7/30/21	7/30/21 17:37	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,3-Dibromopropane (1)	114	70-130				7/30/21 17:37	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: RW-1 Sampled: 7/27/2021 07:35

Sample ID: 21G1513-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide, Total	ND	0.005	0.001	mg/L	1		SM 4500	7/29/21	7/29/21 15:34	AAL

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Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: OF-1 Sampled: 7/27/2021 10:00

Sample ID: 21G1513-02

Sample Matrix: Storm Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	8.02	50.0	2.35	µg/L	1	J	624.1	7/29/21	7/30/21 4:02	LBD
tert-Amyl Methyl Ether (TAME)	<0.150	0.500	0.150	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
Benzene	<0.130	1.00	0.130	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
Bromodichloromethane	<0.140	2.00	0.140	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
Bromoform	<0.290	2.00	0.290	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
Bromomethane	<1.07	5.00	1.07	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
tert-Butyl Alcohol (TBA)	<5.34	20.0	5.34	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
Carbon Tetrachloride	<0.170	2.00	0.170	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
Chlorobenzene	<0.0800	2.00	0.0800	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
Chlorodibromomethane	<0.160	2.00	0.160	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
Chloroethane	<0.370	2.00	0.370	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
Chloroform	0.420	2.00	0.190	µg/L	1	J	624.1	7/29/21	7/30/21 4:02	LBD
Chloromethane	<0.380	2.00	0.380	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
1,2-Dichlorobenzene	<0.100	2.00	0.100	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
1,3-Dichlorobenzene	<0.0900	2.00	0.0900	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
1,4-Dichlorobenzene	<0.110	2.00	0.110	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
1,2-Dichloroethane	<0.320	2.00	0.320	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
cis-1,2-Dichloroethylene	<0.150	1.00	0.150	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
1,1-Dichloroethane	<0.160	2.00	0.160	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
1,1-Dichloroethylene	<0.160	2.00	0.160	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
trans-1,2-Dichloroethylene	<0.170	2.00	0.170	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
1,2-Dichloropropane	<0.180	2.00	0.180	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
cis-1,3-Dichloropropene	<0.120	2.00	0.120	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
1,4-Dioxane	<21.5	50.0	21.5	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
trans-1,3-Dichloropropene	<0.150	2.00	0.150	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
Ethanol	<34.2	50.0	34.2	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
Ethylbenzene	0.120	2.00	0.0900	µg/L	1	J	624.1	7/29/21	7/30/21 4:02	LBD
Methyl tert-Butyl Ether (MTBE)	<0.170	2.00	0.170	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
Methylene Chloride	<0.300	5.00	0.300	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
1,1,2,2-Tetrachloroethane	<0.0900	2.00	0.0900	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
Tetrachloroethylene	0.470	2.00	0.200	µg/L	1	J	624.1	7/29/21	7/30/21 4:02	LBD
Toluene	0.150	1.00	0.110	µg/L	1	J	624.1	7/29/21	7/30/21 4:02	LBD
1,1,1-Trichloroethane	<0.170	2.00	0.170	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
1,1,2-Trichloroethane	<0.150	2.00	0.150	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
Trichloroethylene	<0.180	2.00	0.180	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
Trichlorofluoromethane (Freon 11)	<0.190	2.00	0.190	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
Vinyl Chloride	<0.200	2.00	0.200	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
m+p Xylene	<0.180	2.00	0.180	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD
o-Xylene	<0.0900	1.00	0.0900	µg/L	1	U	624.1	7/29/21	7/30/21 4:02	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.2	70-130		7/30/21 4:02
Toluene-d8	93.7	70-130		7/30/21 4:02
4-Bromofluorobenzene	97.3	70-130		7/30/21 4:02

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Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: OF-1 Sampled: 7/27/2021 10:00

Sample ID: 21G1513-02

Sample Matrix: Storm Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene (SIM)	<0.034	0.048	0.034	µg/L	1		625.1	7/29/21	7/30/21 13:54	IMR
Benzo(a)pyrene (SIM)	<0.021	0.097	0.021	µg/L	1		625.1	7/29/21	7/30/21 13:54	IMR
Benzo(b)fluoranthene (SIM)	<0.027	0.048	0.027	µg/L	1		625.1	7/29/21	7/30/21 13:54	IMR
Benzo(k)fluoranthene (SIM)	<0.017	0.19	0.017	µg/L	1		625.1	7/29/21	7/30/21 13:54	IMR
Chrysene (SIM)	<0.021	0.19	0.021	µg/L	1		625.1	7/29/21	7/30/21 13:54	IMR
Dibenz(a,h)anthracene (SIM)	<0.028	0.097	0.028	µg/L	1		625.1	7/29/21	7/30/21 13:54	IMR
Indeno(1,2,3-cd)pyrene (SIM)	<0.027	0.097	0.027	µg/L	1		625.1	7/29/21	7/30/21 13:54	IMR
Pentachlorophenol (SIM)	<0.38	0.97	0.38	µg/L	1		625.1	7/29/21	7/30/21 13:54	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	32.7	15-110		7/30/21 13:54
Phenol-d6 (SIM)	33.9	15-110		7/30/21 13:54
Nitrobenzene-d5	58.7	30-130		7/30/21 13:54
2-Fluorobiphenyl	53.2	30-130		7/30/21 13:54
2,4,6-Tribromophenol (SIM)	74.0	15-110		7/30/21 13:54
p-Terphenyl-d14	70.5	30-130		7/30/21 13:54

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Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: OF-1 Sampled: 7/27/2021 10:00

Sample ID: 21G1513-02

Sample Matrix: Storm Water

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	<0.324	4.83	0.324	µg/L	1		625.1	7/29/21	7/30/21 19:23	IMR
Acenaphthylene	<0.310	4.83	0.310	µg/L	1		625.1	7/29/21	7/30/21 19:23	IMR
Anthracene	<0.383	4.83	0.383	µg/L	1		625.1	7/29/21	7/30/21 19:23	IMR
Benzo(g,h,i)perylene	<0.618	4.83	0.618	µg/L	1		625.1	7/29/21	7/30/21 19:23	IMR
Di-n-butylphthalate	<0.480	9.66	0.480	µg/L	1		625.1	7/29/21	7/30/21 19:23	IMR
Diethylphthalate	<0.465	9.66	0.465	µg/L	1		625.1	7/29/21	7/30/21 19:23	IMR
Dimethylphthalate	<0.388	9.66	0.388	µg/L	1		625.1	7/29/21	7/30/21 19:23	IMR
Di-n-octylphthalate	<5.41	9.66	5.41	µg/L	1		625.1	7/29/21	7/30/21 19:23	IMR
Bis(2-Ethylhexyl)phthalate	<0.893	9.66	0.893	µg/L	1		625.1	7/29/21	7/30/21 19:23	IMR
Fluoranthene	<0.357	4.83	0.357	µg/L	1		625.1	7/29/21	7/30/21 19:23	IMR
Fluorene	<0.403	4.83	0.403	µg/L	1		625.1	7/29/21	7/30/21 19:23	IMR
Naphthalene	<0.286	4.83	0.286	µg/L	1		625.1	7/29/21	7/30/21 19:23	IMR
Phenanthrene	<0.384	4.83	0.384	µg/L	1		625.1	7/29/21	7/30/21 19:23	IMR
Pyrene	<0.457	4.83	0.457	µg/L	1		625.1	7/29/21	7/30/21 19:23	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	38.0	15-110		7/30/21 19:23
Phenol-d6	39.5	15-110		7/30/21 19:23
Nitrobenzene-d5	60.7	30-130		7/30/21 19:23
2-Fluorobiphenyl	68.1	30-130		7/30/21 19:23
2,4,6-Tribromophenol	96.8	15-110		7/30/21 19:23
p-Terphenyl-d14	108	30-130		7/30/21 19:23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: OF-1 Sampled: 7/27/2021 10:00

Sample ID: 21G1513-02

Sample Matrix: Storm Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.0430	0.0483	0.0430	µg/L	1		608.3	7/30/21	8/3/21 16:23	JMB
Aroclor-1221 [1]	<0.0399	0.0483	0.0399	µg/L	1		608.3	7/30/21	8/3/21 16:23	JMB
Aroclor-1232 [1]	<0.0406	0.0483	0.0406	µg/L	1		608.3	7/30/21	8/3/21 16:23	JMB
Aroclor-1242 [1]	<0.0425	0.0483	0.0425	µg/L	1		608.3	7/30/21	8/3/21 16:23	JMB
Aroclor-1248 [1]	<0.0403	0.0483	0.0403	µg/L	1		608.3	7/30/21	8/3/21 16:23	JMB
Aroclor-1254 [1]	<0.0454	0.0483	0.0454	µg/L	1		608.3	7/30/21	8/3/21 16:23	JMB
Aroclor-1260 [1]	<0.0396	0.0483	0.0396	µg/L	1		608.3	7/30/21	8/3/21 16:23	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.5	30-150		8/3/21 16:23
Decachlorobiphenyl [2]	53.4	30-150		8/3/21 16:23
Tetrachloro-m-xylene [1]	54.6	30-150		8/3/21 16:23
Tetrachloro-m-xylene [2]	49.6	30-150		8/3/21 16:23

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Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: OF-1 Sampled: 7/27/2021 10:00

Sample ID: 21G1513-02

Sample Matrix: Storm Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	0.36	0.19	mg/L	1	O-26	SW-846 8015C	7/29/21	7/30/21 17:38	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	68.9	40-140		7/30/21 17:38

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Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: OF-1 Sampled: 7/27/2021 10:00

Sample ID: 21G1513-02

Sample Matrix: Storm Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.25		mg/L	5	DL-03	EPA 200.7	8/4/21	8/5/21 13:05	MJH
Antimony	ND	5.0		µg/L	5	DL-15	EPA 200.8	7/30/21	8/3/21 14:56	QNW
Arsenic	17	4.0		µg/L	5		EPA 200.8	7/30/21	8/2/21 17:18	QNW
Barium	130	50		µg/L	5		EPA 200.8	7/30/21	8/2/21 17:18	QNW
Beryllium	ND	2.0		µg/L	5	DL-15	EPA 200.8	7/30/21	8/2/21 17:18	QNW
Cadmium	ND	1.0		µg/L	5	DL-15	EPA 200.8	7/30/21	8/2/21 17:18	QNW
Calcium	190	10		mg/L	20		EPA 200.7	7/30/21	8/4/21 11:27	MJH
Chromium	5.9	5.0		µg/L	5		EPA 200.8	7/30/21	8/2/21 17:18	QNW
Chromium, Trivalent	0.0059			mg/L	1		Tri Chrome Calc.	7/30/21	8/2/21 17:18	QNW
Cobalt	ND	5.0		µg/L	5	DL-15	EPA 200.8	7/30/21	8/2/21 17:18	QNW
Copper	55	1.0		µg/L	1		EPA 200.8	8/2/21	8/4/21 11:40	QNW
Iron	1.3	0.050		mg/L	1		EPA 200.7	7/30/21	8/3/21 12:35	QNW
Lead	1.5	0.50		µg/L	1		EPA 200.8	8/2/21	8/4/21 11:40	QNW
Magnesium	540	1.0		mg/L	20		EPA 200.7	7/30/21	8/4/21 11:27	MJH
Manganese	810	5.0		µg/L	5		EPA 200.8	7/30/21	8/2/21 17:18	QNW
Mercury	ND	0.00010		mg/L	1		EPA 245.1	7/30/21	8/2/21 11:46	CJV
Nickel	ND	25		µg/L	5	DL-15	EPA 200.8	7/30/21	8/2/21 17:18	QNW
Potassium	190	2.0		mg/L	1		EPA 200.7	7/30/21	8/3/21 12:35	QNW
Selenium	9.6	25	3.9	µg/L	5	J	EPA 200.8	7/30/21	8/3/21 14:56	QNW
Silver	ND	1.0		µg/L	5	DL-15	EPA 200.8	7/30/21	8/2/21 17:18	QNW
Sodium	4500	40		mg/L	20		EPA 200.7	7/30/21	8/4/21 11:27	MJH
Thallium	ND	1.0		µg/L	5		EPA 200.8	7/30/21	8/2/21 17:18	QNW
Vanadium	ND	25		µg/L	5		EPA 200.8	7/30/21	8/2/21 17:18	QNW
Zinc	12	10		µg/L	1		EPA 200.8	8/2/21	8/4/21 11:40	QNW
Hardness	2700	29		mg/L	20		EPA 200.7	7/30/21	8/4/21 11:27	MJH

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Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: OF-1 Sampled: 7/27/2021 10:00

Sample ID: 21G1513-02

Sample Matrix: Storm Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	1.4	0.30		mg/L	1		SM19-23 4500 NH3 C	7/30/21	8/3/21 9:45	IS
Chloride	8200	250		mg/L	250		EPA 300.0	7/30/21	7/30/21 20:09	is
Chlorine, Residual	ND	0.020		mg/L	1		SM21-23 4500 CL G	7/27/21	7/27/21 20:00	ALG
Hexavalent Chromium	ND	0.0040		mg/L	1		SM21-23 3500 Cr B	7/27/21	7/27/21 19:15	CB2
Phenol	ND	0.050		mg/L	1		EPA 420.1	7/28/21	8/2/21 10:45	LL
Total Suspended Solids	19	1.5		mg/L	1		SM21-23 2540D	7/29/21	7/29/21 11:55	LL
Silica Gel Treated HEM (SGT-HEM)	ND	1.4		mg/L	1		EPA 1664B	8/3/21	8/3/21 13:20	LL

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Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: OF-1 Sampled: 7/27/2021 10:00

Sample ID: 21G1513-02

Sample Matrix: Storm Water

Drinking Water Organics EPA 504.1

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2-Dibromoethane (EDB) (1)	ND	0.019	µg/L	1		EPA 504.1	7/30/21	7/30/21 18:01	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,3-Dibromopropane (1)	100	70-130		7/30/21 18:01

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Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: OF-1 Sampled: 7/27/2021 10:00

Sample ID: 21G1513-02

Sample Matrix: Storm Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide, Total	0.001	0.005	0.001	mg/L	1	Ja	SM 4500	7/29/21	7/29/21 15:35	AAL

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Project Location: 500 Talbot St. Sample Description: Work Order: 21G1513

Date Received: 7/27/2021

Field Sample #: Trip Blank Sampled: 7/27/2021 00:00

Sample ID: 21G1513-03

Sample Matrix: Surface Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	<2.35	50.0	2.35	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
tert-Amyl Methyl Ether (TAME)	<0.150	0.500	0.150	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Benzene	<0.130	1.00	0.130	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Bromodichloromethane	<0.140	2.00	0.140	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Bromoform	<0.290	2.00	0.290	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Bromomethane	<1.07	5.00	1.07	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
tert-Butyl Alcohol (TBA)	<5.34	20.0	5.34	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Carbon Tetrachloride	<0.170	2.00	0.170	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Chlorobenzene	<0.0800	2.00	0.0800	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Chlorodibromomethane	<0.160	2.00	0.160	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Chloroethane	<0.370	2.00	0.370	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Chloroform	<0.190	2.00	0.190	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Chloromethane	<0.380	2.00	0.380	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
1,2-Dichlorobenzene	<0.100	2.00	0.100	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
1,3-Dichlorobenzene	<0.0900	2.00	0.0900	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
1,4-Dichlorobenzene	<0.110	2.00	0.110	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
1,2-Dichloroethane	<0.320	2.00	0.320	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
cis-1,2-Dichloroethylene	<0.150	1.00	0.150	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
1,1-Dichloroethane	<0.160	2.00	0.160	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
1,1-Dichloroethylene	<0.160	2.00	0.160	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
trans-1,2-Dichloroethylene	<0.170	2.00	0.170	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
1,2-Dichloropropane	<0.180	2.00	0.180	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
cis-1,3-Dichloropropene	<0.120	2.00	0.120	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
1,4-Dioxane	<21.5	50.0	21.5	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
trans-1,3-Dichloropropene	<0.150	2.00	0.150	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Ethanol	<34.2	50.0	34.2	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Ethylbenzene	<0.0900	2.00	0.0900	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Methyl tert-Butyl Ether (MTBE)	<0.170	2.00	0.170	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Methylene Chloride	0.500	5.00	0.300	µg/L	1	J	624.1	7/29/21	7/30/21 2:17	LBD
1,1,2,2-Tetrachloroethane	<0.0900	2.00	0.0900	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Tetrachloroethylene	<0.200	2.00	0.200	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Toluene	<0.110	1.00	0.110	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
1,1,1-Trichloroethane	<0.170	2.00	0.170	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
1,1,2-Trichloroethane	<0.150	2.00	0.150	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Trichloroethylene	<0.180	2.00	0.180	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Trichlorofluoromethane (Freon 11)	<0.190	2.00	0.190	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
Vinyl Chloride	<0.200	2.00	0.200	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
m+p Xylene	<0.180	2.00	0.180	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD
o-Xylene	<0.0900	1.00	0.0900	µg/L	1	U	624.1	7/29/21	7/30/21 2:17	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.3	70-130		7/30/21 2:17
Toluene-d8	93.2	70-130		7/30/21 2:17
4-Bromofluorobenzene	93.8	70-130		7/30/21 2:17

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Sample Extraction Data

Prep Method: SW-846 3510C **Analytical Method: 608.3**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1513-01 [RW-1]	B287137	1000	5.00	07/30/21
21G1513-02 [OF-1]	B287137	1040	5.00	07/30/21

Prep Method: SW-846 5030B **Analytical Method: 624.1**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1513-01 [RW-1]	B287055	5	5.00	07/29/21
21G1513-02 [OF-1]	B287055	5	5.00	07/29/21
21G1513-03 [Trip Blank]	B287055	5	5.00	07/29/21

Prep Method: SW-846 3510C **Analytical Method: 625.1**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1513-01 [RW-1]	B287021	1020	1.00	07/29/21
21G1513-02 [OF-1]	B287021	1040	1.00	07/29/21

Prep Method: SW-846 3510C **Analytical Method: 625.1**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1513-01 [RW-1]	B287156	1020	1.00	07/29/21
21G1513-02 [OF-1]	B287156	1040	1.00	07/29/21

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
21G1513-01 [RW-1]	B287327	950	08/03/21
21G1513-02 [OF-1]	B287327	1000	08/03/21

Prep Method: EPA 200.7 **Analytical Method: EPA 200.7**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1513-01 [RW-1]	B287158	50.0	50.0	07/30/21
21G1513-01 [RW-1]	B287158	50.0		07/30/21
21G1513-02 [OF-1]	B287158	50.0	50.0	07/30/21
21G1513-02 [OF-1]	B287158	50.0		07/30/21

Prep Method: EPA 200.7 **Analytical Method: EPA 200.7**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1513-01RE1 [RW-1]	B287518	50.0	50.0	08/04/21
21G1513-02RE1 [OF-1]	B287518	50.0	50.0	08/04/21

Prep Method: EPA 200.8 **Analytical Method: EPA 200.8**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1513-01 [RW-1]	B287159	50.0	50.0	07/30/21

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Sample Extraction Data

Prep Method: EPA 200.8 **Analytical Method: EPA 200.8**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1513-02 [OF-1]	B287159	50.0	50.0	07/30/21

Prep Method: EPA 200.8 **Analytical Method: EPA 200.8**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1513-01RE1 [RW-1]	B287311	50.0	50.0	08/02/21
21G1513-02RE1 [OF-1]	B287311	50.0	50.0	08/02/21

Prep Method: EPA 245.1 **Analytical Method: EPA 245.1**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1513-01 [RW-1]	B287126	6.00	6.00	07/30/21
21G1513-02 [OF-1]	B287126	6.00	6.00	07/30/21

Prep Method: EPA 300.0 **Analytical Method: EPA 300.0**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1513-01 [RW-1]	B287190	10.0	10.0	07/30/21
21G1513-02 [OF-1]	B287190	10.0	10.0	07/30/21

EPA 420.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1513-01 [RW-1]	B286927	50.0	50.0	07/28/21
21G1513-02 [OF-1]	B286927	50.0	50.0	07/28/21

Prep Method: EPA 504 water **Analytical Method: EPA 504.1**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1513-01 [RW-1]	B287168	35.6	35.0	07/30/21
21G1513-02 [OF-1]	B287168	36.4	35.0	07/30/21

SM19-23 4500 NH3 C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1513-01 [RW-1]	B287149	100	100	07/30/21
21G1513-02 [OF-1]	B287149	100	100	07/30/21

SM21-23 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
21G1513-01 [RW-1]	B287012	110	07/29/21
21G1513-02 [OF-1]	B287012	340	07/29/21

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Sample Extraction Data

SM21-23 3500 Cr B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1513-01 [RW-1]	B286916	50.0	50.0	07/27/21
21G1513-02 [OF-1]	B286916	50.0	50.0	07/27/21

SM21-23 4500 CL G

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1513-01 [RW-1]	B286915	100	100	07/27/21
21G1513-02 [OF-1]	B286915	100	100	07/27/21

Prep Method: SW-846 3510C **Analytical Method: SW-846 8015C**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1513-02 [OF-1]	B287066	1040	1.00	07/29/21

Prep Method: EPA 200.8 **Analytical Method: Tri Chrome Calc.**

Lab Number [Field ID]	Batch	Initial [mL]	Date
21G1513-01 [RW-1]	B287159	50.0	07/30/21
21G1513-02 [OF-1]	B287159	50.0	07/30/21

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B287055 - SW-846 5030B										
Blank (B287055-BLK1)				Prepared: 07/29/21 Analyzed: 07/30/21						
Acetone	ND	50.0	µg/L							U
tert-Amyl Methyl Ether (TAME)	ND	0.500	µg/L							U
Benzene	ND	1.00	µg/L							U
Bromodichloromethane	ND	2.00	µg/L							U
Bromoform	ND	2.00	µg/L							U
Bromomethane	ND	2.00	µg/L							U
tert-Butyl Alcohol (TBA)	ND	20.0	µg/L							U
Carbon Tetrachloride	ND	2.00	µg/L							U
Chlorobenzene	ND	2.00	µg/L							U
Chlorodibromomethane	ND	2.00	µg/L							U
Chloroethane	ND	2.00	µg/L							U
Chloroform	ND	2.00	µg/L							U
Chloromethane	ND	2.00	µg/L							U
1,2-Dichlorobenzene	ND	2.00	µg/L							U
1,3-Dichlorobenzene	ND	2.00	µg/L							U
1,4-Dichlorobenzene	ND	2.00	µg/L							U
1,2-Dichloroethane	ND	2.00	µg/L							U
cis-1,2-Dichloroethylene	ND	1.00	µg/L							U
1,1-Dichloroethane	ND	2.00	µg/L							U
1,1-Dichloroethylene	ND	2.00	µg/L							U
trans-1,2-Dichloroethylene	ND	2.00	µg/L							U
1,2-Dichloropropane	ND	2.00	µg/L							U
cis-1,3-Dichloropropene	ND	2.00	µg/L							U
1,4-Dioxane	ND	50.0	µg/L							U
trans-1,3-Dichloropropene	ND	2.00	µg/L							U
Ethanol	ND	50.0	µg/L							U
Ethylbenzene	ND	2.00	µg/L							U
Methyl tert-Butyl Ether (MTBE)	ND	2.00	µg/L							U
Methylene Chloride	ND	5.00	µg/L							U
1,1,2,2-Tetrachloroethane	ND	2.00	µg/L							U
Tetrachloroethylene	ND	2.00	µg/L							U
Toluene	ND	1.00	µg/L							U
1,1,1-Trichloroethane	ND	2.00	µg/L							U
1,1,2-Trichloroethane	ND	2.00	µg/L							U
Trichloroethylene	ND	2.00	µg/L							U
Trichlorofluoromethane (Freon 11)	ND	2.00	µg/L							U
Vinyl Chloride	ND	2.00	µg/L							U
m+p Xylene	ND	2.00	µg/L							U
o-Xylene	ND	1.00	µg/L							U
Surrogate: 1,2-Dichloroethane-d4	*23.1*		µg/L	25.0		92.2	70-130			
Surrogate: Toluene-d8	*23.4*		µg/L	25.0		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	*23.5*		µg/L	25.0		93.9	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B287055 - SW-846 5030B										
LCS (B287055-BS1)				Prepared: 07/29/21 Analyzed: 07/30/21						
Acetone	200	50.0	µg/L	200		99.7	70-160			†
tert-Amyl Methyl Ether (TAME)	19	0.500	µg/L	20.0		94.0	70-130			
Benzene	19	1.00	µg/L	20.0		94.4	65-135			
Bromodichloromethane	20	2.00	µg/L	20.0		98.6	65-135			
Bromoform	21	2.00	µg/L	20.0		107	70-130			
Bromomethane	18	2.00	µg/L	20.0		91.0	15-185			
tert-Butyl Alcohol (TBA)	180	20.0	µg/L	200		88.6	40-160			†
Carbon Tetrachloride	19	2.00	µg/L	20.0		95.5	70-130			
Chlorobenzene	21	2.00	µg/L	20.0		106	65-135			
Chlorodibromomethane	20	2.00	µg/L	20.0		99.8	70-135			
Chloroethane	18	2.00	µg/L	20.0		89.6	40-160			
Chloroform	19	2.00	µg/L	20.0		95.7	70-135			
Chloromethane	7.5	2.00	µg/L	20.0		37.4	20-205			
1,2-Dichlorobenzene	20	2.00	µg/L	20.0		101	65-135			
1,3-Dichlorobenzene	20	2.00	µg/L	20.0		101	70-130			
1,4-Dichlorobenzene	20	2.00	µg/L	20.0		99.2	65-135			
1,2-Dichloroethane	21	2.00	µg/L	20.0		104	70-130			
cis-1,2-Dichloroethylene	20	1.00	µg/L	20.0		98.0	70-130			
1,1-Dichloroethane	20	2.00	µg/L	20.0		101	70-130			
1,1-Dichloroethylene	20	2.00	µg/L	20.0		98.2	50-150			
trans-1,2-Dichloroethylene	20	2.00	µg/L	20.0		98.4	70-130			
1,2-Dichloropropane	21	2.00	µg/L	20.0		105	35-165			
cis-1,3-Dichloropropene	18	2.00	µg/L	20.0		92.1	25-175			
1,4-Dioxane	200	50.0	µg/L	200		99.0	40-130			†
trans-1,3-Dichloropropene	19	2.00	µg/L	20.0		96.6	50-150			
Ethanol	190	50.0	µg/L	200		92.8	40-160			
Ethylbenzene	20	2.00	µg/L	20.0		102	60-140			
Methyl tert-Butyl Ether (MTBE)	19	2.00	µg/L	20.0		92.9	70-130			
Methylene Chloride	20	5.00	µg/L	20.0		98.1	60-140			
1,1,2,2-Tetrachloroethane	21	2.00	µg/L	20.0		107	60-140			
Tetrachloroethylene	21	2.00	µg/L	20.0		103	70-130			
Toluene	20	1.00	µg/L	20.0		99.0	70-130			
1,1,1-Trichloroethane	19	2.00	µg/L	20.0		95.2	70-130			
1,1,2-Trichloroethane	21	2.00	µg/L	20.0		106	70-130			
Trichloroethylene	21	2.00	µg/L	20.0		104	65-135			
Trichlorofluoromethane (Freon 11)	16	2.00	µg/L	20.0		78.0	50-150			
Vinyl Chloride	16	2.00	µg/L	20.0		80.0	5-195			
m+p Xylene	41	2.00	µg/L	40.0		104	70-130			
o-Xylene	20	1.00	µg/L	20.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	*21.6*		µg/L	25.0		86.3	70-130			
Surrogate: Toluene-d8	*23.8*		µg/L	25.0		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	*24.7*		µg/L	25.0		98.7	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B287156 - SW-846 3510C										
Blank (B287156-BLK1)				Prepared: 07/29/21 Analyzed: 07/30/21						
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Pentachlorophenol (SIM)	ND	1.0	µg/L							
Surrogate: 2-Fluorophenol (SIM)	*76.9*		µg/L	200		38.4	15-110			
Surrogate: Phenol-d6 (SIM)	*71.9*		µg/L	200		35.9	15-110			
Surrogate: Nitrobenzene-d5	*70.3*		µg/L	100		70.3	30-130			
Surrogate: 2-Fluorobiphenyl	*67.1*		µg/L	100		67.1	30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*172*		µg/L	200		85.8	15-110			
Surrogate: p-Terphenyl-d14	*87.4*		µg/L	100		87.4	30-130			
LCS (B287156-BS1)				Prepared: 07/29/21 Analyzed: 07/30/21						
Benzo(a)anthracene (SIM)	34.3	1.0	µg/L	50.0		68.7	33-143			
Benzo(a)pyrene (SIM)	35.8	2.0	µg/L	50.0		71.6	17-163			
Benzo(b)fluoranthene (SIM)	38.4	1.0	µg/L	50.0		76.7	24-159			
Benzo(k)fluoranthene (SIM)	37.4	4.0	µg/L	50.0		74.8	11-162			
Chrysene (SIM)	34.2	4.0	µg/L	50.0		68.4	17-168			
Dibenz(a,h)anthracene (SIM)	35.2	2.0	µg/L	50.0		70.4	10-227			
Indeno(1,2,3-cd)pyrene (SIM)	37.4	2.0	µg/L	50.0		74.8	10-171			
Pentachlorophenol (SIM)	27.3	20	µg/L	50.0		54.6	14-176			
Surrogate: 2-Fluorophenol (SIM)	*68.0*		µg/L	200		34.0	15-110			
Surrogate: Phenol-d6 (SIM)	*63.5*		µg/L	200		31.8	15-110			
Surrogate: Nitrobenzene-d5	*65.3*		µg/L	100		65.3	30-130			
Surrogate: 2-Fluorobiphenyl	*61.1*		µg/L	100		61.1	30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*154*		µg/L	200		77.2	15-110			
Surrogate: p-Terphenyl-d14	*67.2*		µg/L	100		67.2	30-130			
LCS Dup (B287156-BSD1)				Prepared: 07/29/21 Analyzed: 07/30/21						
Benzo(a)anthracene (SIM)	35.8	1.0	µg/L	50.0		71.7	33-143	4.27	53	
Benzo(a)pyrene (SIM)	37.6	2.0	µg/L	50.0		75.2	17-163	4.90	72	
Benzo(b)fluoranthene (SIM)	39.8	1.0	µg/L	50.0		79.6	24-159	3.68	71	
Benzo(k)fluoranthene (SIM)	38.5	4.0	µg/L	50.0		77.1	11-162	3.06	63	
Chrysene (SIM)	35.6	4.0	µg/L	50.0		71.1	17-168	3.96	87	
Dibenz(a,h)anthracene (SIM)	37.6	2.0	µg/L	50.0		75.2	10-227	6.54	126	
Indeno(1,2,3-cd)pyrene (SIM)	39.8	2.0	µg/L	50.0		79.5	10-171	6.06	99	
Pentachlorophenol (SIM)	30.4	20	µg/L	50.0		60.7	14-176	10.7	86	
Surrogate: 2-Fluorophenol (SIM)	*70.0*		µg/L	200		35.0	15-110			
Surrogate: Phenol-d6 (SIM)	*65.6*		µg/L	200		32.8	15-110			
Surrogate: Nitrobenzene-d5	*69.9*		µg/L	100		69.9	30-130			
Surrogate: 2-Fluorobiphenyl	*65.6*		µg/L	100		65.6	30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*167*		µg/L	200		83.4	15-110			
Surrogate: p-Terphenyl-d14	*67.5*		µg/L	100		67.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B287021 - SW-846 3510C										
Blank (B287021-BLK1)				Prepared: 07/29/21 Analyzed: 07/30/21						
Acenaphthene	ND	5.00	µg/L							
Acenaphthylene	ND	5.00	µg/L							
Anthracene	ND	5.00	µg/L							
Benzo(g,h,i)perylene	ND	5.00	µg/L							
Di-n-butylphthalate	ND	10.0	µg/L							
Diethylphthalate	ND	10.0	µg/L							
Dimethylphthalate	ND	10.0	µg/L							
Di-n-octylphthalate	ND	10.0	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10.0	µg/L							
Fluoranthene	ND	5.00	µg/L							
Fluorene	ND	5.00	µg/L							
Naphthalene	ND	5.00	µg/L							
Phenanthrene	ND	5.00	µg/L							
Pyrene	ND	5.00	µg/L							
Surrogate: 2-Fluorophenol	*84.8*		µg/L	200		42.4	15-110			
Surrogate: Phenol-d6	*83.0*		µg/L	200		41.5	15-110			
Surrogate: Nitrobenzene-d5	*70.3*		µg/L	100		70.3	30-130			
Surrogate: 2-Fluorobiphenyl	*70.9*		µg/L	100		70.9	30-130			
Surrogate: 2,4,6-Tribromophenol	*173*		µg/L	200		86.5	15-110			
Surrogate: p-Terphenyl-d14	*109*		µg/L	100		109	30-130			
LCS (B287021-BS1)				Prepared: 07/29/21 Analyzed: 07/30/21						
Acenaphthene	34.7	5.00	µg/L	50.0		69.4	47-145			
Acenaphthylene	32.8	5.00	µg/L	50.0		65.6	33-145			
Anthracene	37.6	5.00	µg/L	50.0		75.2	27-133			
Benzo(g,h,i)perylene	40.9	5.00	µg/L	50.0		81.8	10-219			
Di-n-butylphthalate	37.9	10.0	µg/L	50.0		75.7	10-120			
Diethylphthalate	37.1	10.0	µg/L	50.0		74.2	10-120			
Dimethylphthalate	36.6	10.0	µg/L	50.0		73.1	10-120			
Di-n-octylphthalate	36.3	10.0	µg/L	50.0		72.6	4-146			
Bis(2-Ethylhexyl)phthalate	37.0	10.0	µg/L	50.0		74.0	8-158			
Fluoranthene	37.6	5.00	µg/L	50.0		75.3	26-137			
Fluorene	36.0	5.00	µg/L	50.0		72.0	59-121			
Naphthalene	29.6	5.00	µg/L	50.0		59.3	21-133			
Phenanthrene	36.7	5.00	µg/L	50.0		73.3	54-120			
Pyrene	37.2	5.00	µg/L	50.0		74.3	52-120			
Surrogate: 2-Fluorophenol	*80.8*		µg/L	200		40.4	15-110			
Surrogate: Phenol-d6	*79.2*		µg/L	200		39.6	15-110			
Surrogate: Nitrobenzene-d5	*67.3*		µg/L	100		67.3	30-130			
Surrogate: 2-Fluorobiphenyl	*72.0*		µg/L	100		72.0	30-130			
Surrogate: 2,4,6-Tribromophenol	*177*		µg/L	200		88.7	15-110			
Surrogate: p-Terphenyl-d14	*96.9*		µg/L	100		96.9	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B287021 - SW-846 3510C										
LCS Dup (B287021-BSD1)				Prepared: 07/29/21 Analyzed: 07/30/21						
Acenaphthene	34.2	5.00	µg/L	50.0		68.5	47-145	1.36	48	
Acenaphthylene	32.8	5.00	µg/L	50.0		65.5	33-145	0.0915	74	
Anthracene	36.6	5.00	µg/L	50.0		73.1	27-133	2.75	66	
Benzo(g,h,i)perylene	40.2	5.00	µg/L	50.0		80.4	10-219	1.68	97	
Di-n-butylphthalate	37.2	10.0	µg/L	50.0		74.4	10-120	1.76	47	
Diethylphthalate	36.6	10.0	µg/L	50.0		73.2	10-120	1.30	100	
Dimethylphthalate	35.8	10.0	µg/L	50.0		71.6	10-120	2.07	183	
Di-n-octylphthalate	37.0	10.0	µg/L	50.0		74.1	4-146	1.99	69	
Bis(2-Ethylhexyl)phthalate	37.4	10.0	µg/L	50.0		74.8	8-158	0.995	82	
Fluoranthene	36.2	5.00	µg/L	50.0		72.4	26-137	3.98	66	
Fluorene	35.3	5.00	µg/L	50.0		70.6	59-121	1.85	38	
Naphthalene	30.6	5.00	µg/L	50.0		61.2	21-133	3.15	65	
Phenanthrene	35.8	5.00	µg/L	50.0		71.6	54-120	2.40	39	
Pyrene	36.2	5.00	µg/L	50.0		72.4	52-120	2.62	49	
Surrogate: 2-Fluorophenol	*86.0*		µg/L	200		43.0	15-110			
Surrogate: Phenol-d6	*83.1*		µg/L	200		41.6	15-110			
Surrogate: Nitrobenzene-d5	*73.4*		µg/L	100		73.4	30-130			
Surrogate: 2-Fluorobiphenyl	*71.4*		µg/L	100		71.4	30-130			
Surrogate: 2,4,6-Tribromophenol	*167*		µg/L	200		83.4	15-110			
Surrogate: p-Terphenyl-d14	*91.9*		µg/L	100		91.9	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B287137 - SW-846 3510C										
Blank (B287137-BLK1)				Prepared: 07/30/21 Analyzed: 08/01/21						
Aroclor-1016	ND	0.0500	µg/L							
Aroclor-1016 [2C]	ND	0.0500	µg/L							
Aroclor-1221	ND	0.0500	µg/L							
Aroclor-1221 [2C]	ND	0.0500	µg/L							
Aroclor-1232	ND	0.0500	µg/L							
Aroclor-1232 [2C]	ND	0.0500	µg/L							
Aroclor-1242	ND	0.0500	µg/L							
Aroclor-1242 [2C]	ND	0.0500	µg/L							
Aroclor-1248	ND	0.0500	µg/L							
Aroclor-1248 [2C]	ND	0.0500	µg/L							
Aroclor-1254	ND	0.0500	µg/L							
Aroclor-1254 [2C]	ND	0.0500	µg/L							
Aroclor-1260	ND	0.0500	µg/L							
Aroclor-1260 [2C]	ND	0.0500	µg/L							
Surrogate: Decachlorobiphenyl	*0.935*		µg/L	1.00		93.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.786*		µg/L	1.00		78.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.788*		µg/L	1.00		78.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.715*		µg/L	1.00		71.5	30-150			
LCS (B287137-BS1)				Prepared: 07/30/21 Analyzed: 08/01/21						
Aroclor-1016	0.486	0.200	µg/L	0.500		97.3	50-140			
Aroclor-1016 [2C]	0.494	0.200	µg/L	0.500		98.7	50-140			
Aroclor-1260	0.473	0.200	µg/L	0.500		94.6	8-140			
Aroclor-1260 [2C]	0.430	0.200	µg/L	0.500		86.0	8-140			
Surrogate: Decachlorobiphenyl	*1.99*		µg/L	2.00		99.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.68*		µg/L	2.00		83.8	30-150			
Surrogate: Tetrachloro-m-xylene	*1.68*		µg/L	2.00		84.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.53*		µg/L	2.00		76.5	30-150			
LCS Dup (B287137-BSD1)				Prepared: 07/30/21 Analyzed: 08/01/21						
Aroclor-1016	0.497	0.200	µg/L	0.500		99.4	50-140	2.13		
Aroclor-1016 [2C]	0.503	0.200	µg/L	0.500		101	50-140	1.82		
Aroclor-1260	0.474	0.200	µg/L	0.500		94.8	8-140	0.207		
Aroclor-1260 [2C]	0.430	0.200	µg/L	0.500		86.0	8-140	0.00931		
Surrogate: Decachlorobiphenyl	*1.94*		µg/L	2.00		96.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.63*		µg/L	2.00		81.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.66*		µg/L	2.00		82.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.51*		µg/L	2.00		75.7	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B287066 - SW-846 3510C										
Blank (B287066-BLK1)				Prepared: 07/29/21 Analyzed: 07/30/21						
TPH (C9-C36)	ND	0.20	mg/L							
Surrogate: 2-Fluorobiphenyl	*0.0862*		mg/L	0.100		86.2	40-140			
LCS (B287066-BS1)				Prepared: 07/29/21 Analyzed: 07/30/21						
TPH (C9-C36)	0.767	0.20	mg/L	1.00		76.7	40-140			
Surrogate: 2-Fluorobiphenyl	*0.0760*		mg/L	0.100		76.0	40-140			
LCS Dup (B287066-BSD1)				Prepared: 07/29/21 Analyzed: 07/30/21						
TPH (C9-C36)	0.837	0.20	mg/L	1.00		83.7	40-140	8.81	25	
Surrogate: 2-Fluorobiphenyl	*0.0915*		mg/L	0.100		91.5	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B287126 - EPA 245.1										
Blank (B287126-BLK1)				Prepared: 07/30/21 Analyzed: 08/02/21						
Mercury	ND	0.00010	mg/L							
LCS (B287126-BS1)				Prepared: 07/30/21 Analyzed: 08/02/21						
Mercury	0.00437	0.00010	mg/L	0.00400		109	85-115			
LCS Dup (B287126-BSD1)				Prepared: 07/30/21 Analyzed: 08/02/21						
Mercury	0.00432	0.00010	mg/L	0.00400		108	85-115	1.23	20	
Batch B287158 - EPA 200.7										
Blank (B287158-BLK1)				Prepared: 07/30/21 Analyzed: 08/03/21						
Calcium	ND	0.50	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.050	mg/L							
Potassium	ND	2.0	mg/L							
Sodium	ND	2.0	mg/L							
Hardness	ND	1.4	mg/L							
LCS (B287158-BS1)				Prepared: 07/30/21 Analyzed: 08/03/21						
Calcium	4.08	0.50	mg/L	4.00		102	85-115			
Iron	3.83	0.050	mg/L	4.00		95.8	85-115			
Magnesium	3.71	0.050	mg/L	4.00		92.8	85-115			
Potassium	3.47	2.0	mg/L	4.00		86.7	85-115			
Sodium	3.74	2.0	mg/L	4.00		93.5	85-115			
Hardness	25	1.4	mg/L	26.4		96.3	85-115			
LCS Dup (B287158-BSD1)				Prepared: 07/30/21 Analyzed: 08/03/21						
Calcium	4.09	0.50	mg/L	4.00		102	85-115	0.366	20	
Iron	3.95	0.050	mg/L	4.00		98.7	85-115	2.91	20	
Magnesium	3.79	0.050	mg/L	4.00		94.8	85-115	2.08	20	
Potassium	3.52	2.0	mg/L	4.00		87.9	85-115	1.41	20	
Sodium	3.81	2.0	mg/L	4.00		95.2	85-115	1.77	20	
Hardness	26	1.4	mg/L	26.4		97.7	85-115	1.40	20	
Batch B287159 - EPA 200.8										
Blank (B287159-BLK1)				Prepared: 07/30/21 Analyzed: 08/02/21						
Antimony	ND	1.0	µg/L							
Arsenic	ND	0.80	µg/L							
Barium	ND	10	µg/L							
Beryllium	ND	0.40	µg/L							
Cadmium	ND	0.20	µg/L							
Chromium	ND	1.0	µg/L							
Cobalt	ND	1.0	µg/L							
Manganese	ND	1.0	µg/L							
Nickel	ND	5.0	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.20	µg/L							
Thallium	ND	0.20	µg/L							
Vanadium	ND	5.0	µg/L							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B287159 - EPA 200.8										
LCS (B287159-BS1)				Prepared: 07/30/21 Analyzed: 08/02/21						
Antimony	520	10	µg/L	500		104	85-115			
Arsenic	475	8.0	µg/L	500		95.1	85-115			
Barium	473	100	µg/L	500		94.7	85-115			
Beryllium	438	4.0	µg/L	500		87.5	85-115			
Cadmium	463	2.0	µg/L	500		92.6	85-115			
Chromium	466	10	µg/L	500		93.2	85-115			
Cobalt	468	10	µg/L	500		93.7	85-115			
Manganese	470	10	µg/L	500		94.1	85-115			
Nickel	476	50	µg/L	500		95.1	85-115			
Selenium	463	50	µg/L	500		92.5	85-115			
Silver	471	2.0	µg/L	500		94.3	85-115			
Thallium	461	2.0	µg/L	500		92.2	85-115			
Vanadium	443	50	µg/L	500		88.5	85-115			
LCS Dup (B287159-BSD1)				Prepared: 07/30/21 Analyzed: 08/02/21						
Antimony	517	10	µg/L	500		103	85-115	0.709	20	
Arsenic	473	8.0	µg/L	500		94.6	85-115	0.511	20	
Barium	472	100	µg/L	500		94.4	85-115	0.363	20	
Beryllium	431	4.0	µg/L	500		86.3	85-115	1.47	20	
Cadmium	463	2.0	µg/L	500		92.5	85-115	0.0741	20	
Chromium	468	10	µg/L	500		93.5	85-115	0.335	20	
Cobalt	470	10	µg/L	500		94.0	85-115	0.363	20	
Manganese	467	10	µg/L	500		93.5	85-115	0.686	20	
Nickel	473	50	µg/L	500		94.5	85-115	0.645	20	
Selenium	464	50	µg/L	500		92.9	85-115	0.411	20	
Silver	472	2.0	µg/L	500		94.5	85-115	0.167	20	
Thallium	453	2.0	µg/L	500		90.5	85-115	1.80	20	
Vanadium	442	50	µg/L	500		88.3	85-115	0.237	20	
Batch B287311 - EPA 200.8										
Blank (B287311-BLK1)				Prepared: 08/02/21 Analyzed: 08/04/21						
Copper	ND	1.0	µg/L							
Lead	ND	0.50	µg/L							
Zinc	ND	10	µg/L							
LCS (B287311-BS1)				Prepared: 08/02/21 Analyzed: 08/04/21						
Copper	990	10	µg/L	1000		99.0	85-115			
Lead	485	5.0	µg/L	500		97.1	85-115			
Zinc	991	100	µg/L	1000		99.1	85-115			
LCS Dup (B287311-BSD1)				Prepared: 08/02/21 Analyzed: 08/04/21						
Copper	1020	10	µg/L	1000		102	85-115	2.88	20	
Lead	495	5.0	µg/L	500		99.0	85-115	1.99	20	
Zinc	1010	100	µg/L	1000		101	85-115	1.46	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B287311 - EPA 200.8										
Duplicate (B287311-DUP1)		**Source: 21G1513-01RE1**		Prepared: 08/02/21 Analyzed: 08/04/21						
Copper	9.82	1.0	µg/L		9.93			1.19	20	
Lead	24.3	0.50	µg/L		24.2			0.698	20	
Zinc	49.5	10	µg/L		48.9			1.15	20	
Matrix Spike (B287311-MS1)		**Source: 21G1513-01RE1**		Prepared: 08/02/21 Analyzed: 08/04/21						
Copper	909	10	µg/L	1000	9.93	89.9	70-130			
Lead	465	5.0	µg/L	500	24.2	88.2	70-130			
Zinc	933	100	µg/L	1000	48.9	88.4	70-130			
Batch B287518 - EPA 200.7										
Blank (B287518-BLK1)				Prepared: 08/04/21 Analyzed: 08/05/21						
Aluminum	ND	0.050	mg/L							
LCS (B287518-BS1)				Prepared: 08/04/21 Analyzed: 08/05/21						
Aluminum	0.476	0.050	mg/L	0.500		95.1	85-115			
LCS Dup (B287518-BSD1)				Prepared: 08/04/21 Analyzed: 08/05/21						
Aluminum	0.471	0.050	mg/L	0.500		94.1	85-115	1.05	20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B286915 - SM21-23 4500 CL G										
Blank (B286915-BLK1)				Prepared & Analyzed: 07/27/21						
Chlorine, Residual	ND	0.020	mg/L							
LCS (B286915-BS1)				Prepared & Analyzed: 07/27/21						
Chlorine, Residual	0.67	0.020	mg/L	0.663		101	80.3-122			
LCS Dup (B286915-BSD1)				Prepared & Analyzed: 07/27/21						
Chlorine, Residual	0.67	0.020	mg/L	0.663		102	80.3-122	1.08	10.7	
Duplicate (B286915-DUP1)		**Source: 21G1513-02**		Prepared & Analyzed: 07/27/21						
Chlorine, Residual	ND	0.020	mg/L		ND			NC	27.6	
Matrix Spike (B286915-MS1)		**Source: 21G1513-02**		Prepared & Analyzed: 07/27/21						
Chlorine, Residual	0.13	0.020	mg/L	0.300	ND	43.0	10-169			
Batch B286916 - SM21-23 3500 Cr B										
Blank (B286916-BLK1)				Prepared & Analyzed: 07/27/21						
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B286916-BS1)				Prepared & Analyzed: 07/27/21						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100		103	90-114			
LCS Dup (B286916-BSD1)				Prepared & Analyzed: 07/27/21						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100		101	90-114	1.24	5	
Matrix Spike (B286916-MS1)		**Source: 21G1513-02**		Prepared & Analyzed: 07/27/21						
Hexavalent Chromium	0.087	0.0040	mg/L	0.100	ND	87.5	60.5-130			
Matrix Spike Dup (B286916-MSD1)		**Source: 21G1513-02**		Prepared & Analyzed: 07/27/21						
Hexavalent Chromium	0.091	0.0040	mg/L	0.100	ND	91.3	60.5-130	4.26	7.53	
Batch B286927 - EPA 420.1										
Blank (B286927-BLK1)				Prepared: 07/28/21 Analyzed: 08/02/21						
Phenol	ND	0.050	mg/L							
LCS (B286927-BS1)				Prepared: 07/28/21 Analyzed: 08/02/21						
Phenol	0.53	0.050	mg/L	0.500		105	73-123			
LCS Dup (B286927-BSD1)				Prepared: 07/28/21 Analyzed: 08/02/21						
Phenol	0.51	0.050	mg/L	0.500		102	73-123	2.93	9.13	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B287012 - SM21-23 2540D										
Blank (B287012-BLK1)				Prepared & Analyzed: 07/29/21						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B287012-BS1)				Prepared & Analyzed: 07/29/21						
Total Suspended Solids	175	5.0	mg/L	200		87.5	53.8-124			
Batch B287149 - SM19-23 4500 NH3 C										
Blank (B287149-BLK1)				Prepared: 07/30/21 Analyzed: 08/03/21						
Ammonia as N	ND	0.30	mg/L							
LCS (B287149-BS1)				Prepared: 07/30/21 Analyzed: 08/03/21						
Ammonia as N	5.0	0.30	mg/L	5.00		101	86.2-110			
LCS Dup (B287149-BSD1)				Prepared: 07/30/21 Analyzed: 08/03/21						
Ammonia as N	5.3	0.30	mg/L	5.00		106	86.2-110	5.41	10	
Batch B287190 - EPA 300.0										
Blank (B287190-BLK1)				Prepared & Analyzed: 07/30/21						
Chloride	ND	1.0	mg/L							
LCS (B287190-BS1)				Prepared & Analyzed: 07/30/21						
Chloride	9.8	1.0	mg/L	10.0		97.6	90-110			
LCS Dup (B287190-BSD1)				Prepared & Analyzed: 07/30/21						
Chloride	9.8	1.0	mg/L	10.0		97.7	90-110	0.0880	20	
Batch B287327 - EPA 1664B										
Blank (B287327-BLK1)				Prepared & Analyzed: 08/03/21						
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L							
LCS (B287327-BS1)				Prepared & Analyzed: 08/03/21						
Silica Gel Treated HEM (SGT-HEM)	9.8		mg/L	10.0		98.0	64-132			
Matrix Spike (B287327-MS1)	**Source: 21G1513-01**			Prepared & Analyzed: 08/03/21						
Silica Gel Treated HEM (SGT-HEM)	89	14	mg/L	100	ND	89.0	64-132			

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QUALITY CONTROL

Drinking Water Organics EPA 504.1 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B287168 - EPA 504 water										
Blank (B287168-BLK1)				Prepared & Analyzed: 07/30/21						
1,2-Dibromoethane (EDB)	ND	0.021	µg/L							
Surrogate: 1,3-Dibromopropane	*1.05*		µg/L	1.04		101	70-130			
LCS (B287168-BS1)				Prepared & Analyzed: 07/30/21						
1,2-Dibromoethane (EDB)	0.250	0.021	µg/L	0.261		96.0	70-130			
Surrogate: 1,3-Dibromopropane	*1.13*		µg/L	1.04		108	70-130			
LCS Dup (B287168-BSD1)				Prepared & Analyzed: 07/30/21						
1,2-Dibromoethane (EDB)	0.257	0.021	µg/L	0.261		98.4	70-130	2.59		
Surrogate: 1,3-Dibromopropane	*1.17*		µg/L	1.04		112	70-130			
Matrix Spike (B287168-MS1)	**Source: 21G1513-02**			Prepared & Analyzed: 07/30/21						
1,2-Dibromoethane (EDB)	0.242	0.019	µg/L	0.241	ND	100	65-135			
Surrogate: 1,3-Dibromopropane	*0.964*		µg/L	0.964		100	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix interference.
DL-15	Sample required a dilution due to low internal standard recovery of the lesser diluted digestion, reporting limit is elevated.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
Ja	[Undefined]
O-26	Sample contamination consists of heavy residual hydrocarbons similar to asphalt. Chromatogram also shows the presence of PAHs.
U	Analyte included in the analysis, but not detected

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
624.1 in Water	
Acetone	CT,NY,MA,NH
tert-Amyl Methyl Ether (TAME)	MA
Benzene	CT,NY,MA,NH,RI,NC,ME,VA
Bromodichloromethane	CT,NY,MA,NH,RI,NC,ME,VA
Bromoform	CT,NY,MA,NH,RI,NC,ME,VA
Bromomethane	CT,NY,MA,NH,RI,NC,ME,VA
tert-Butyl Alcohol (TBA)	NY,MA
Carbon Tetrachloride	CT,NY,MA,NH,RI,NC,ME,VA
Chlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
Chlorodibromomethane	CT,NY,MA,NH,RI,NC,ME,VA
Chloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Chloroform	CT,NY,MA,NH,RI,NC,ME,VA
Chloromethane	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,3-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,4-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
cis-1,2-Dichloroethylene	NY,MA
1,1-Dichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1-Dichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
trans-1,2-Dichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichloropropane	CT,NY,MA,NH,RI,NC,ME,VA
cis-1,3-Dichloropropene	CT,NY,MA,NH,RI,NC,ME,VA
1,4-Dioxane	MA
trans-1,3-Dichloropropene	CT,NY,MA,NH,RI,NC,ME,VA
Ethanol	NY,MA,NH
Ethylbenzene	CT,NY,MA,NH,RI,NC,ME,VA
Methyl tert-Butyl Ether (MTBE)	NY,MA,NH,NC
Methylene Chloride	CT,NY,MA,NH,RI,NC,ME,VA
Naphthalene	NY,MA,NC
1,1,2,2-Tetrachloroethane	CT,NY,MA,NH,RI,NC,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
624.1 in Water	
Tetrachloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
Toluene	CT,NY,MA,NH,RI,NC,ME,VA
1,1,1-Trichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1,2-Trichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Trichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NY,MA,NH,RI,NC,ME,VA
Vinyl Chloride	CT,NY,MA,NH,RI,NC,ME,VA
m+p Xylene	CT,NY,MA,NH,RI,NC
o-Xylene	CT,NY,MA,NH,RI,NC
625.1 in Water	
Acenaphthene	CT,MA,NH,NY,NC,RI,ME,VA
Acenaphthylene	CT,MA,NH,NY,NC,RI,ME,VA
Anthracene	CT,MA,NH,NY,NC,RI,ME,VA
Benzo(g,h,i)perylene	CT,MA,NH,NY,NC,RI,ME,VA
Di-n-butylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
1,3-Dichlorobenzene	MA,NC
1,4-Dichlorobenzene	MA,NC
1,2-Dichlorobenzene	MA,NC
Diethylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
Dimethylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
Di-n-octylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
Bis(2-Ethylhexyl)phthalate	CT,MA,NH,NY,NC,RI,ME,VA
Fluoranthene	CT,MA,NH,NY,NC,RI,ME,VA
Fluorene	CT,MA,NH,NY,NC,RI,ME,VA
Naphthalene	CT,MA,NH,NY,NC,RI,ME,VA
Phenanthrene	CT,MA,NH,NY,NC,RI,ME,VA
Phenol	CT,MA,NH,NY,NC,RI,ME,VA
Pyrene	CT,MA,NH,NY,NC,RI,ME,VA
2-Fluorophenol	NC
2-Fluorophenol	NC,VA
Phenol-d6	VA
Nitrobenzene-d5	VA
EPA 200.7 in Water	
Aluminum	CT,NY,MA,NH,RI,NC,ME,VA
Calcium	CT,MA,NH,NY,RI,NC,ME,VA
Iron	CT,MA,NH,NY,RI,NC,ME,VA
Magnesium	CT,MA,NH,NY,RI,NC,ME,VA
Potassium	CT,MA,NH,NY,RI,NC,ME,VA
Sodium	CT,MA,NH,NY,RI,NC,ME,VA
Hardness	CT,MA,NH,NY,RI,VA
EPA 200.8 in Water	
Antimony	CT,MA,NH,NY,RI,NC,ME,VA
Arsenic	CT,MA,NH,NY,RI,NC,ME,VA
Barium	CT,NH,NY,RI,NC,ME,VA
Beryllium	CT,MA,NH,NY,RI,NC,ME,VA
Cadmium	CT,MA,NH,NY,RI,NC,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.8 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Cobalt	CT,MA,NY,RI,NC,ME,VA
Copper	CT,MA,NH,NY,RI,NC,ME,VA
Lead	CT,MA,NH,NY,RI,NC,ME,VA
Manganese	CT,MA,NH,NY,RI,NC,ME,VA
Nickel	CT,MA,NH,NY,RI,NC,ME,VA
Selenium	CT,MA,NH,NY,RI,NC,ME,VA
Silver	CT,MA,NH,NY,RI,NC,ME,VA
Thallium	CT,MA,NH,NY,RI,NC,ME,VA
Vanadium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 245.1 in Water	
Mercury	CT,MA,NH,RI,NY,NC,ME,VA
EPA 300.0 in Water	
Chloride	NC,NY,MA,VA,ME,NH,CT,RI
EPA 420.1 in Water	
Phenol	CT,MA,NH,NY,RI,NC,ME,VA
SM19-23 4500 NH3 C in Water	
Ammonia as N	NY,MA,CT,RI,VA,NC,ME
SM21-23 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-23 3500 Cr B in Water	
Hexavalent Chromium	NY,CT,NH,RI,ME,VA,NC
SM21-23 4500 CL G in Water	
Chlorine, Residual	CT,MA,RI,ME

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

Archived: Wednesday, July 28, 2021 5:37:03 PM
From: John DeMille
Sent: Wed, 28 Jul 2021 21:31:24
To: Scott Basal
Subject: Re: NPDES - RGP
Sensitivity: Normal

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.
Yes please

Sent from my iPhone

> On Jul 28, 2021, at 5:19 PM, Scott Basal <Scott.Basal@pacelabs.com> wrote:
>
> ?
> Hi John,
>
> Would you like the trip blank run on these samples for the 624.1?
>
> <image001.jpg>
>
> **Scott Basal**
> Project Coordinator II
> 39 Spruce Street, East Longmeadow, MA 01028
> Cell: 413.427.4513 | Lab: 413.525.2332 contestlabs.com
> <image002.jpg>
>
> ---
>
> **From:** John DeMille <jdemille@wilcoxandbarton.com>
> **Sent:** Tuesday, July 27, 2021 5:33 PM
> **To:** Scott Basal <Scott.Basal@pacelabs.com>
> **Cc:** Alex Leich <aleich@wilcoxandbarton.com>; Meghan Kelley <Meghan.Kelley@pacelabs.com>
> **Subject:** Re: NPDES - RGP
>
> CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.
> Hi Scott.
>
> This is baseline data. We are in the process of applying for the permit.
>
> -John
>
> Sent from my iPhone
>
> > On Jul 27, 2021, at 4:42 PM, Scott Basal <Scott.Basal@pacelabs.com> wrote:
> >
> > ?
> > Hi John,
> >
> > Is this an RGP project, if so can you please send me your permit so we can review and set up the project accordingly?
> >
> > Thanks,
> > Scott
>
> NOTICE-- The contents of this email and any attachments may contain confidential, privileged, and/or legally protected information and are for the sole use of the addressee(s). Any review or distribution by others is strictly prohibited. If you are not the intended

recipient, please contact the sender immediately and delete any copies.

Please consider the environment before printing this email

<SKM_454e21072717170.pdf>

NOTICE-- The contents of this email and any attachments may contain confidential, privileged, and/or legally protected information and are for the sole use of the addressee(s). Any review or distribution by others is strictly prohibited. If you are not the intended recipient, please contact the sender immediately and delete any copies.

Please consider the environment before printing this email

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

216153

ALL SHADED AREAS are for LAB USE ONLY

Company: Wilcox and Bastor	Billing Information:
Address:	
Report To: J. Denille	Email To: J Denille@wilcoxandbastor.com
Copy To: A. Roth	Site Collection Info/Address:
Customer Project Name/Number: JPAD0001	State: / County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: Email: 774545216	Site/Facility ID #: 500 Talbot
Collected By (print): AHL	Purchase Order #: Quote #:
Collected By (Signature):	Turnaround Date Required:
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [✓] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [✓] Yes [ ] No

DW PWS ID #: DW Location Code:

Immediately Packed on Ice: [✓] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **: 3 3 U 1 U U U 4 U U

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Lab Project Manager:

Analyses

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Phenol 420.1	NH3 by SM 4500 C-Titration	TSS SM 2540 D	TAL 23 metals 200.8 Trace	TPH fingerprint 8015	Hex/Tri Cr by SW846 7196A	TRC + chloride SM4500 Cl G H2O	Total Cyanide	SVOC 625	PCB 608
RW-1	GW		7/27	7:35					2	1	1	1	2	1	1	1	2	2
OF-1	SW/ww		7/27	10:00					2	1	1	1	2	1	1	1	2	2

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	(NA)
Custody Signatures Present	Y	N	(NA)
Collector Signature Present	(Y)	N	NA
Bottles Intact	(Y)	N	NA
Correct Bottles	(Y)	N	NA
Sufficient Volume	(Y)	N	NA
Samples Received on Ice	(Y)	N	NA
VOA - Headspace Acceptable	(Y)	N	NA
USDA Regulated Soils	Y	N	(NA)
Samples in Holding Time	(Y)	N	NA
Residual Chlorine Present	Y	N	(NA)
Cl Strips:			
Sample pH Acceptable	(Y)	N	NA
pH Strips:			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips:			

LAB USE ONLY:
Lab Sample # / Comments:
Cassie notified of Smethods

client would like trip blank analyzed - scb 7/28/2021

Customer Remarks / Special Conditions / Possible Hazards:
NPDES
TRC + chloride
23 metals + Hardness
Hexavalent + trivalent Cr

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): (Y) N N/A

Lab Tracking #: 2654142

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments:
2.6, 5.4

	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	7/27 13:07		7/27/21 1307
Relinquished by/Company: (Signature)	7/27 4:15		7/27/21 1613
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 2

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Table of Contents

NPDES Bottle order # 2107051

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

216153

ALL SHADED AREAS are for LAB USE ONLY

Company: Wilcox and Barton	Billing Information:
Address:	
Report To: J. Demille	Email To: jdemille@wilcoxandbarton.com
Copy To: A. Roth	Site Collection Info/Address: 500 Talbot
Customer Project Name/Number: JPAD 0001	State: MA County/City: Dorchester Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: 774 454 5216 Email:	Site/Facility ID #: 500 Talbot
Collected By (print): AHL	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required:
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [X] 5 Day (Expedite Charges Apply)
Compliance Monitoring? [X] Yes [ ] No	DW PWS ID #: DW Location Code:
Immediately Packed on Ice: [X] Yes [ ] No	Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **

Analyses: 624 | Oil + grease 1664B | 504 EDB only

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Project Manager:

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N (NA)
Custody Signatures Present	Y N (NA)
Collector Signature Present	(Y) N NA
Bottles Intact	(Y) N NA
Correct Bottles	(Y) N NA
Sufficient Volume	(Y) N NA
Samples Received on Ice	(Y) N NA
VOA - Headspace Acceptable	(Y) N NA
USDA Regulated Soils	Y N (NA)
Samples in Holding Time	(Y) N NA
Residual Chlorine Present	Y N (NA)
Cl Strips:	
Sample pH Acceptable	(Y) N NA
pH Strips:	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	624	Oil + grease 1664B	504 EDB only	Lab Sample # / Comments
RW-1	GW		7/27	7:35					3	2	2	1
OF-1	SW		7/27	10:00					3	2	2	2

Customer Remarks / Special Conditions / Possible Hazards: Insure of containers for 624

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2654141

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: ___oC
Cooler 1 Therm Corr. Factor: ___oC
Cooler 1 Corrected Temp: ___oC
Comments:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	7/27 13:07		7/28/21 1309
	7/27 1615		7/27/21 1613

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Non Conformance(s): YES / NO

Page: 2 of: 2

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Table of Contents

APPENDIX C

Supporting Documents Concerning Endangered Species

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: July 23, 2021
Consultation Code: 05E1NE00-2021-SLI-4224
Event Code: 05E1NE00-2021-E-12808
Project Name: Construction Dewatering, 500 Talbot Avenue, Dorchester, Massachusetts

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

To Whom It May Concern:

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

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

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

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

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

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

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

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

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

Attachment(s):

- Official Species List

Official Species List

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

This species list is provided by:

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

Project Summary

Consultation Code: 05E1NE00-2021-SLI-4224
Event Code: 05E1NE00-2021-E-12808
Project Name: Construction Dewatering, 500 Talbot Avenue, Dorchester, Massachusetts
Project Type: DREDGE / EXCAVATION
Project Description: The proposed project involves the decontamination of construction dewatering for the installation of a new building within the drawn property area. The property consists of a 17,554 square foot (0.40-acre) parcel of land identified as Parcel ID 1601480000. Construction to take place this summer.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@42.2885811,-71.06589391738983,14z

Counties: Suffolk County, Massachusetts

Endangered Species Act Species

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

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

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

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

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

Critical habitats

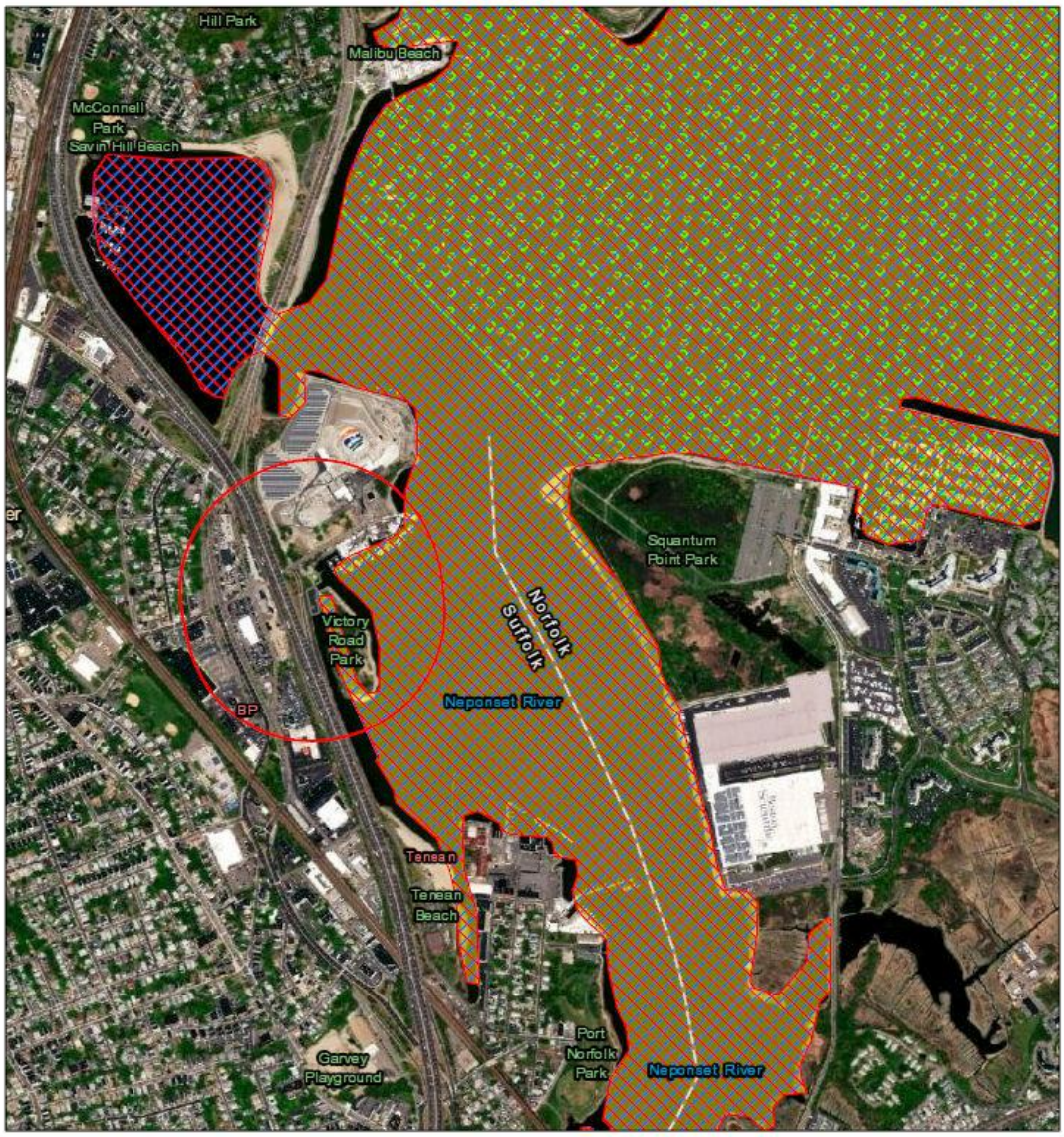
THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Drawn Ac n Ar a Ov rlapp ng S7 C nsul a n Ar as

Area of In eres (AOI) Informa ion

Ar a : 84.71 acr s

Jut 23 2021 12:48:34 Eas rn Dayl gh T m e



Dewaterin i har e for thi proje t are propo e to enter the muni ipal torm rain y tem after treate for ite ontaminant . The A tion Area rawn repre ent the exi tin outfall lo ation (ID#: SD   90) for the muni ipal torm rain y tem where propo e i har e are propo e to enter.

Summary

Name	Count	Area(acres)	Length(mi)
Atlanti Stur eon	2	41.55	N/A
Shortno e Stur eon	1	20.78	N/A
Atlanti Salmon	0	0	N/A
Sea Turtle		0	N/A
Atlanti Lar e Whale		83.10	N/A
In or Near Criti al Habitat	0	0	N/A

Atlanti Stur eon

#	Feature ID	Species	Life Stage	Behavior	Zone
1	ANS_C50_ADU_MAF	Atlanti tur eon	A ult	Mi ratin & Fora in	/A
2	ANS_C50_SUB_MAF	Atlanti tur eon	Suba ult	Mi ratin & Fora in	/A

#	From	Until	From (2)	Until (2)	Area(acres)
1	01/01	12/31	N/A	N/A	20.78
2	01/01	12/31	N/A	N/A	20.78

Shortno e Stur eon

#	Feature ID	Species	Life Stage	Behavior	Zone
1	SNS_C50_ADU_MAF	Shortno e tur eon	A ult	Mi ratin & Fora in	/A

#	From	Until	From (2)	Until (2)	Area(acres)
1	04/01	11/30	N/A	N/A	20.78

Atlanti Lar e Whale

#	Feature ID	Species	Life Stage	Behavior	Zone
1	RIT_WRN_AJV_F	North Atlanti ri ht whale	A ult an juvenile	ora in	Northea t (ME to Cape Co , MA)
2	RIT_WRN_AJV_WIN	North Atlanti ri ht whale	A ult an juvenile	erwinterin	Northea t (ME to Cape Co , MA)
3	FIN_WFN_AJV_WIN	Fin whale	A ult an juvenile	v erwinterin	Northea t (ME to Cape Co , MA)
4	FIN_WFN_AJV_F	Fin whale	A ult an juvenile	ora in	Northea t (ME to Cape Co , MA)

#	From	Until	From (2)	Until (2)	Area(acres)
1	1/1	12/31	*No Data*	*No Data*	20.78
2	11/1	1/31	*No Data*	*No Data*	20.78
3	11/1	3/31	*No Data*	*No Data*	20.78
4	1/1	12/31	*No Data*	*No Data*	20.78

DISCLAIMER: U e of thi App oe N Tepla e the En an ere Spe ie A t (ESA) Se tion 7 on ultation pro e ; it i a fir t tep in eterminin if a propo e Fe eral a tion overlap with li te pe ie or riti al habitat pre en e. Be au e the ata provi e throu h thi App are up ate re ularly, reportin re ult mu t in lu e the ate they were enerate . The report output (map/table) epen   on the option pi ke by the u er, in lu in   the hape an   ize of the a tion area rawn, the layer marke a vi ible or ele table, an   the buffer i tan e

specified e si t e "Dra yo r Actio Area" f ctio . Area calc latio s represe t t e size of overlap bet ee t e ser-dra Area of I terest (it b ffer) a d t e specified S 7
Co s ltatio Area. S mmary table areas represe t t e s m of t ese overlappi areas for eac species ro p.

APPENDIX D

Supporting Documents Concerning Historic Properties

Massachusetts Cultural Resource Information System

MACRIS

MACRIS Search Results

Search Criteria: Town(s): Boston; Place: Dorchester; Street Name: Talbot Ave; Resource Type(s): Area, Building, Burial Ground, Object, Structure;

Inv. No.	Property Name	Street	Town	Year
BOS.9165	Midland Railroad Bridge (Milepost #4.39)	Talbot Ave	Boston	1897
BOS.6693		337 Talbot Ave	Boston	1903
BOS.6746	Lithgow Building	363 Talbot Ave	Boston	1899
BOS.6332	Dorchester High School	380 Talbot Ave	Boston	1900
BOS.6333	Rozenberg Brothers and Smith Three-Decker	472 Talbot Ave	Boston	1916
BOS.6334	Rozenberg Brothers and Smith Three-Decker	474 Talbot Ave	Boston	1916
BOS.6670		569-573 Talbot Ave	Boston	1888

CITY OF BOSTON
THE ENVIRONMENT DEPARTMENT

Boston City Hall, Room 709 • Boston, MA 02201 • 617/635-3850 • FAX: 617/635-3435

January 20, 2018

James M. Baker
JPA Development Company, Inc.
45 Braintree Hill Office Park, Suite 402
Braintree, MA 02184

NOTICE OF DETERMINATION

Re: Application #19.710D2460
Review of proposed demolition of the existing church structure at 8 Argyle St./500 Talbot Ave. in Dorchester, MA 02124

Dear Mr. Baker,

The Boston Landmarks Commission staff have determined **existing church structure at 8 Argyle St./500 Talbot Ave. in Dorchester, MA 02124** is not significant under the criteria for determining significance in Section 85-5.3 (a-e) of the Demolition Delay Ordinance (Article 85, Chapter 665 of the Acts of 1956 as amended). No further review by the Boston Landmarks Commission under Article 85 is required. If you have any questions regarding this decision, please contact me at 617-635-3850.

Please provide a copy of this determination to Inspectional Services Department when applying for a demolition permit. Thank you for your cooperation in this matter.

Sincerely,

Todd Satter
Staff Architect
Boston Landmarks Commission

cc: Commissioner of Inspectional Services
Mayor's Office of Neighborhood Services