Wilcox & Barton INC.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL

August 14, 2020

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

RE: Notice of Intent (NOI) – Remediation General Permit (RGP) NHG910000
Brick Market, 60 Penhallow Street, Portsmouth, New Hampshire

Dear Coordinator:

On behalf of Dagny Taggart, 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

The project area is at the corner of Daniel Street (US Route 1) and Penhallow Street in Portsmouth. The parcel is identified by the City of Portsmouth Assessor's Office as Map 107, Lot 27 and is 0.55 acres of land consisting of asphalt-paved parking areas with associated driveways, a parking attendant kiosk, brick and concrete walkways, and landscaped areas. The site is in the "CD4" Character-Based Zoning District and Portsmouth Downtown Overlay District. Surrounding properties are commercial/industrial and residential uses. Office buildings bound the subject parcel to the west and south. Downtown Portsmouth is surrounded on three sides by the Piscataqua River and its tributary estuaries. Figure 1 – *Site Location Map* depicts the location of the project site.

Proposed Project

The proposed project includes the construction of an approximately 17,200-square-foot, four-story building with two levels of subsurface parking facilities and general site improvements. During geotechnical work in support of foundation design, petroleum odors were encountered. Subsequent investigation revealed petroleum contamination in soil and groundwater near the northeastern corner of the site. The excavation project will remove soil from the entire property, yielding effective remediation of petroleum-contaminated soil. The specific source of contamination has not been determined but is expected to be related to historical use of the subject or adjacent properties.

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 in Penhallow Street.

A site plan showing the proposed building and existing site is provided as Figure 2 - *Site Plan*.

Site Characterization

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

Discharge and Receiving Surface Water Information

The proposed discharge will be to an existing stormwater outfall at the Piscataqua River, a Class B receiving water, with conveyance by the municipal stormwater system as approved by the municipality. After entering the municipal storm drain system, the treated discharge will flow to an existing municipal outfall in the Piscataqua River as shown on Figure 3 – *Site Vicinity Plan.*

Potential receiving water impairments include:

Designated Use	Parameter	Condition
Aquatic Life Integrity	Estuarine Assessments	Severe
Fish Consumption	Mercury	Poor
	Polychlorinated Biphenyls	Poor
Potential Drinking Water Supply	Fecal Coliform	Likely Bad
Primary Contact Recreation	Enterococcus	Severe
Secondary Contact Recreation	Enterococcus	Poor
Shellfish Consumption	Dioxin (incl. 2,3,7,8-TCDD)	Poor
	Mercury	Poor
	Polychlorinated Biphenyls	Poor

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 primary settling tank, a secondary weir tank, bag filters to remove fine sediment (and adsorbed contaminants), and two 2,000-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. Flow is expected to vary as dewatering operations reach different strata and, eventually, bedrock.

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. One threatened species was found within the general vicinity of the project area – the Northern Long-eared Bat. However, based on the specific project area and scope of the project activities as specified for this NOI, the prescribed project activities are not likely to result in unauthorized take of the northern long-eared bat.

Similarly, project reviews were performed by the New Hampshire Natural Heritage Bureau (NHB) and Division of Historical Resources (NHDHR). Both agencies determined the prescribed project activities proposed will not impact the respective protected resources. The determination made by NHDHR was contingent on the concurring approval of the Portsmouth Historic District Commission (HDC) for the proposed project. A copy of the HDC Certificate of Approval has been shared with NHDHR and is included in **Appendix C**.

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 in or near the Piscataqua River surrounding Portsmouth's downtown area and a critical habitat for the Atlantic Sturgeon in or near the existing outfall location. 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 New Hampshire 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**.

Coverage Under the RGP

It is our opinion that the proposed discharge is eligible for coverage under the NPDES RGP. On behalf of Dagny Taggart, LLC, we are requesting coverage under the NPDES RGP for the discharge of treated wastewater to the Piscataqua River in support of construction dewatering activities that are to take place at 60 Penhallow Street, Portsmouth, NH.

The enclosed NOI form provides required information on the general site conditions, discharge, treatment system, receiving water, and consultation with federal services. For this project, Dagny Taggart, 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

William R. Wilcox Jr.
President – Principal Geologist

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 – Supplemental Information

TABLE

TABLE 1
NPDES Discharge Permitting Samples - Summary of Analytical Results
Brick Market
60 Penhallow Street, Portsmouth, New Hampshire
NHDES Site #202007013
[see notes at end of table]

Sample Identification Sample Date	Ambient Groundwater Quality Standards (AGQS) †	Technology-Based Effluent Limitation (TBEL)*	Applicable Water Quality-Based Effluent Limitation (WQBEL)**	MW-101 7/10/20		SW-1 7/21/20	
Volatile Organic Compounds (VOCs) by EPA Method 624.1							
Acetone	6,000	7,970	NL	50	U	50	U
tertiary-amyl methyl ether (TAME)	140	140	NL	0.50	U	0.50	U
Benzene	5	5	NL	1.0	U	1.0	U
Bromodichloromethane	0.6	NS	NL	***2.0***	***U***	***2.0***	***U***
Bromoform	4	NS	NL	2.0	U	2.0	U
Bromomethane	10	NS	NL	2.0	U	5.0	U
tertiary-Butyl alcohol (TBA)	40	40	NL	20	U	20	U
Carbon tetrachloride	5	4.4	NL	2.0	U	2.0	U
Chlorobenzene	100	NS	NL	2.0	U	2.0	U
Dibromochloromethane	60	NS	NL	2.0	U	2.00	U
Chloroethane	NS	NS	NL	2.0	U	2.0	U
Chloroform	70	NS	NL	2.0	U	2.0	U
Chloromethane	30	NS	NL	2.0	U	2.0	U
1,2-Dichlorobenzene	600	600	NL	2.0	U	2.0	U
1,3-Dichlorobenzene	600	320	NL	2.0	U	2.0	U
1,4-Dichlorobenzene	75	5	NL	2.0	U	2.0	U
1,2-Dichloroethane	5	5	NL	2.0	U	2.0	U
1,1-Dichloroethane	81	70	NL	2.0	U	2.0	U
1,1-Dichloroethylene	7	3.2	NL	2.0	U	2.0	U
trans-1,2-Dichloroethylene	100	NS	NL	2.0	U	2.0	U
1,2-Dichloropropane	5	NS	NL	2.0	U	2.0	U
cis-1,3-Dichloropropene	0.5	NS	NL	***2.0***	***U***	***2.0***	***U***
1,4-Dioxane	0.32	200	NL	***50***	***U***	***50***	***U***
trans-1,3-Dichloropropene	0.5	NS	NL	***2.0***	***U***	***2.0***	***U***
Ethanol	NS	NS	NL	50	U	50	U
Ethylbenzene	700	NS	NL	2.0	U	2.0	U
Methyl tertiary-butyl ether (MTBE)	13	70	NL	2.0	U	2.0	U
Methylene chloride	5	4.6	NL	5.0	U	5.0	U
1,1,2,2-Tetrachloroethane	2	NS	NL	2.0	U	2.0	U
Tetrachloroethylene (PCE)	5	5	NL	2.0	U	2.0	U
Toluene	1,000	NS	NL	1.0	U	1.0	U
1,1,1-Trichloroethane	200	200	NL	2.0	U	2.0	U
1,1,2-Trichloroethane	5	5	NL	2.0	U	2.0	U
Trichloroethylene (TCE)	5	5	NL	2.0	U	2.0	U
Trichlorofluoromethane	2,000	NS	NL	2.0	U	2.0	U
Vinyl chloride	2	2	NL	2.0	U	2.0	U
mp-Xylene	NS	NS	NL	2.0	U	2.0	U
o-Xylene	NS	NS	NL	1.0	U	1.0	U
Total Xylenes	10,000	NS	NL	3.0	U	3.0	U

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[see notes at end of table]

Sample Identification Sample Date	Ambient Groundwater Quality Standards (AGQS) †	Technology-Based Effluent Limitation (TBEL)*	Applicable Water Quality-Based Effluent Limitation (WQBEL)**	MW-101 7/10/20	SW-1 7/21/20
Drinking Water Organics by EPA Method 504.1					
1,2-Dibromoethane (EDB)	0.05	NS	NL	0.020 U	0.019 U
Total Petroleum Hydrocarbons (TPH) (mg/L)					
TPH (#2 Fuel Oil)	NS	5.0	NL	1.1	--
Semivolatile Organic Compounds (SVOCs) by EPA Method 625.1					
Benzo(a)anthracene	0.1	1.0	NL	0.047 U	0.052 U
Benzo(a)pyrene	0.2	1.0	NL	0.095 U	0.10 U
Benzo(b)fluoranthene	0.1	1.0	NL	0.047 U	0.052 U
Benzo(k)fluoranthene	0.5	1.0	NL	0.19 U	0.21 U
Chrysene	5	1.0	NL	0.19 U	0.21 U
Dibenz(a,h)anthracene	0.1	1.0	NL	0.095 U	0.10 U
Indeno(1,2,3-cd)pyrene	0.1	1.0	NL	0.095 UJ	0.10 U
Pentachlorophenol	1	1.0	NL	0.95 U	1.0 U
Acenaphthene	420	NS	NL	4.01 J	5.15 U
Acenaphthylene	420	NS	NL	4.74 U	5.15 U
Anthracene	2,100	NS	NL	0.711 J	5.15 U
Benzo(g,h,i)perylene	210	NS	NL	4.74 U	5.15 U
Di-n-butylphthalate	800	NS	NL	9.48 U	10.3 U
Diethylphthalate	NS	NS	NL	9.48 U	10.3 U
Dimethylphthalate	50,000	NS	NL	9.48 U	10.3 U
Di-n-octylphthalate	NS	NS	NL	9.48 UJ	10.3 U
Bis(2-Ethylhexyl)phthalate	NS	NS	NL	9.48 U	10.3 U
Fluoranthene	280	NS	NL	4.74 U	5.15 U
Fluorene	280	NS	NL	3.82 J	5.15 U
Naphthalene	100	20	NL	0.521 J	5.15 U
Phenanthrene	210	NS	NL	3.30 J	5.15 U
Pyrene	210	NS	NL	4.74 U	5.2 U
Polychlorinated Byphenyls (PCBs) by EPA Method 608.3					
All Aroclors (total)	0.5	0.00064 (0.5)	NL	0.0948 U	0.109 U
Aroclor-1016	0.5	NS	NL	0.0948 U	0.109 U
Aroclor-1221	0.5	NS	NL	0.0948 U	0.109 U
Aroclor-1232	0.5	NS	NL	0.0948 U	0.109 U
Aroclor-1242	0.5	NS	NL	0.0948 U	0.109 U
Aroclor-1248	0.5	NS	NL	0.0948 U	0.109 U
Aroclor-1254	0.5	NS	NL	0.0948 U	0.109 U
Aroclor-1260	0.5	NS	NL	0.0948 U	0.109 U

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NPDES Discharge Permitting Samples - Summary of Analytical Results
Brick Market
60 Penhallow Street, Portsmouth, New Hampshire
NHDES Site #202007013
[see notes at end of table]

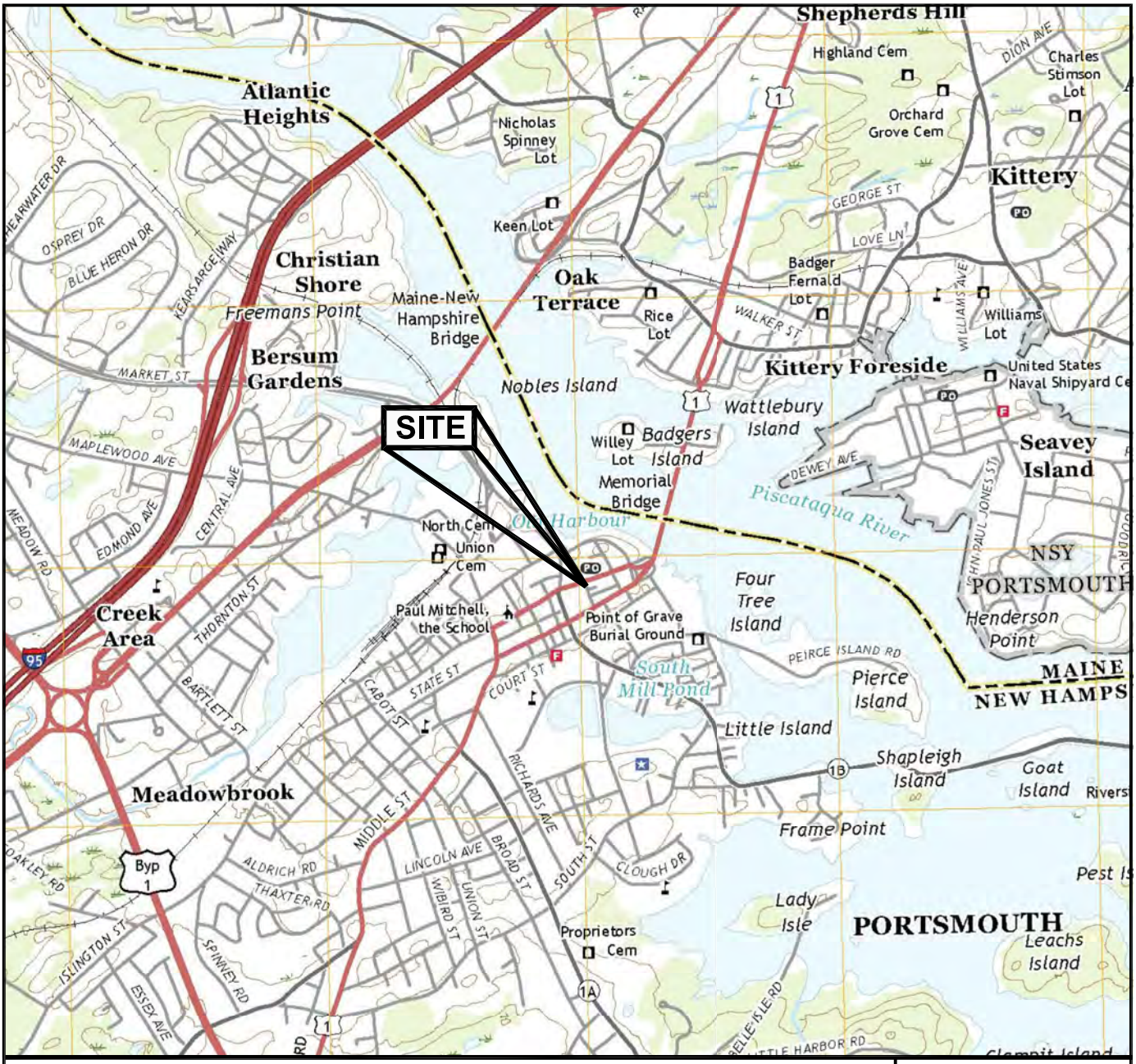
Sample Identification Sample Date	Ambient Groundwater Quality Standards (AGQS) †	Technology-Based Effluent Limitation (TBEL)*	Applicable Water Quality-Based Effluent Limitation (WQBEL)**	MW-101 7/10/20	SW-1 7/21/20
Total Metals by EPA 200 series Methods					
Antimony	6	206	NL	1.0 U	5.0 U
Arsenic	10	104	NL	**19**	**19**
Cadmium	5	10.2	NL	0.20 U	1.0 U
Chromium, total	100	NS	NL	2.3	6.2
Chromium, Trivalent	NS	323	NL	2.3	6.2
Copper	1,300	242	3.7	**9.9**	**130**
Iron	NS	5,000	NL	2,300	250
Lead	15	160	NL	1.5	2.5 U
Mercury	2	0.739	NL	0.10 U	0.10 U
Nickel	100	1,450	NL	5.0 U	25 U
Selenium	50	235.8	NL	5.0 U	**190**
Silver	100	35.1	NL	0.20 U	1.0
Zinc	NS	420	NL	10 U	50
Hardness	NS	NS	NL	--	0.014
Conventional Chemistry Parameters by EPA SW-846 Methods (Total) (mg/L)					
Ammonia as N	NS	NS	NL	0.10 U	0.10 U
Chloride	NS	NS	NL	1,100	35
Chlorine, Residual	NS	0.2	0.0075 (0.05)	0.02 U	0.020 U
Hexavalent Chromium	NS	0.323	NL	0.004 U	0.0040 U
Phenol	NS	1.08	0.3	0.080	0.050 U
Total Suspended Solids	NS	30	NL	15	20
Silica Gel Treated HEM (SGT-HEM)	NS	NS	NL	1.4 U	1.4 U
Cyanide	0.200	178	NL	0.005 U	0.005 U

Detected and selected other analytes listed; all others were not detected.

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

U	Not detected at or above the listed laboratory reporting limit.
J	Estimated concentration.
NS	No standard/effluent limit established.
NL	WQBEL does not apply.
red bold	Detected concentration exceeds applicable WQBEL.
bold	Detected concentration exceeds AGQS.
bold italics	Not detected; laboratory reporting limit exceeds AGQS.
†	Table 600-1 of Part Env-Or 603.03(c), AGQS, effective September 1, 2018.
*	Table 2 of National Pollutant Discharge Elimination System (NPDES) General Permit for Remediation Activity Discharges, March 17, 2017.
**	Applicable limit determined based on "Saltwater Results" output page of Appendix VI spreadsheet. Applicable compliance values in parentheses.

FIGURES



SCALE: 1:24,000

1 0 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
June 29, 2020	As shown	MCNB0001_Site Location Map
APPROVED BY: BLS	DRAWN BY: AMK	REVISED
CLIENT: McNabb Properties, Ltd.		JOB NUMBER: MCNB0001
LOCATION: 60 Penhallow Street, Portsmouth, New Hampshire		MAP SOURCE: Portsmouth, NH, ME; Kittery, ME, NH; USGS QUAD 2018

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SITE LOCATION MAP

Figure 1

11 MARKET SQUARE
PID: 106-13

50-52 DANIEL STREET
PID: 106-17

30 DANIEL STREET
PID: 106-16

22 DANIEL STREET
PID: 106-15

1 MARKET SQUARE
PID: 106-14

DANIEL STREET

DANIEL STREET
PID: 107-11

PENHALLOW STREET

DEWATERING CONNECTION POINT

CUSTOM HOUSE LANE

60 PENHALLOW STREET
PID: 107-27

21 DANIEL STREET
PID: 107-28

14 MARKET SQUARE
PID: 107-29

22 MARKET SQUARE
PID: 107-30

3 PLEASANT STREET
PID: 107-31

30 PENHALLOW STREET
PID: 107-42

51 PENAHLLOW STREET
PID: 107-12

SHEAFE STREET

GSI-1
GSI-1A
GSI-1B
GSI-2
GSI-3
GSI-4
GSI-4A
GSI-4B
GSI-5
GSI-6
GSI-7
B(MW)-101
B(MW)-102
B(MW)-103
B(MW)-104
B(MW)-105

LEGEND

- SUBJECT PROPERTY BOUNDARY
- PROPERTY BOUNDARY
- PROPOSED BUILDING
- PID — PROPERTY IDENTIFICATION
- GSI-2 — GEOTECHNICAL SERVICES INC. MONITORING WELL
- GSI-5 — GEOTECHNICAL BORING LOCATION
- B(MW)-101 — WILCOX & BARTON, INC. MONITORING WELL
- CATCH BASIN
- BURIED ELECTRICAL SERVICE
- DRAINAGE LINES

NOTES

1. LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. PLAN BASED ON TOWN PORTSMOUTH ASSESSOR'S INFORMATION, AND WILCOX & BARTON, INC. SITE VISITS.

GRAPHIC SCALE

30 0 15 30 60

(IN FEET)
1 inch = 30 feet

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TITLE

SITE PLAN

DATE: June 29, 2020	SCALE: GRAPHIC	FILE: MCNB0001_Site Plan
APPROVED BY: BLS	DRAWN BY: AMK	REVISED:
CLIENT: McNabb Properties, Ltd.		JOB NUMBER: MCNB0001
LOCATION: 60 Penhallow Street, Portsmouth, New Hampshire		DRAWING NUMBER: FIGURE 2

LEGEND

SUBJECT PROPERTY BOUNDARY

DRAIN LINE

NOTES

1. LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. PLAN BASED ON TOWN PORTSMOUTH ASSESSOR'S INFORMATION, AND WILCOX & BARTON, INC. SITE VISITS.

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)

1 inch = 200 feet

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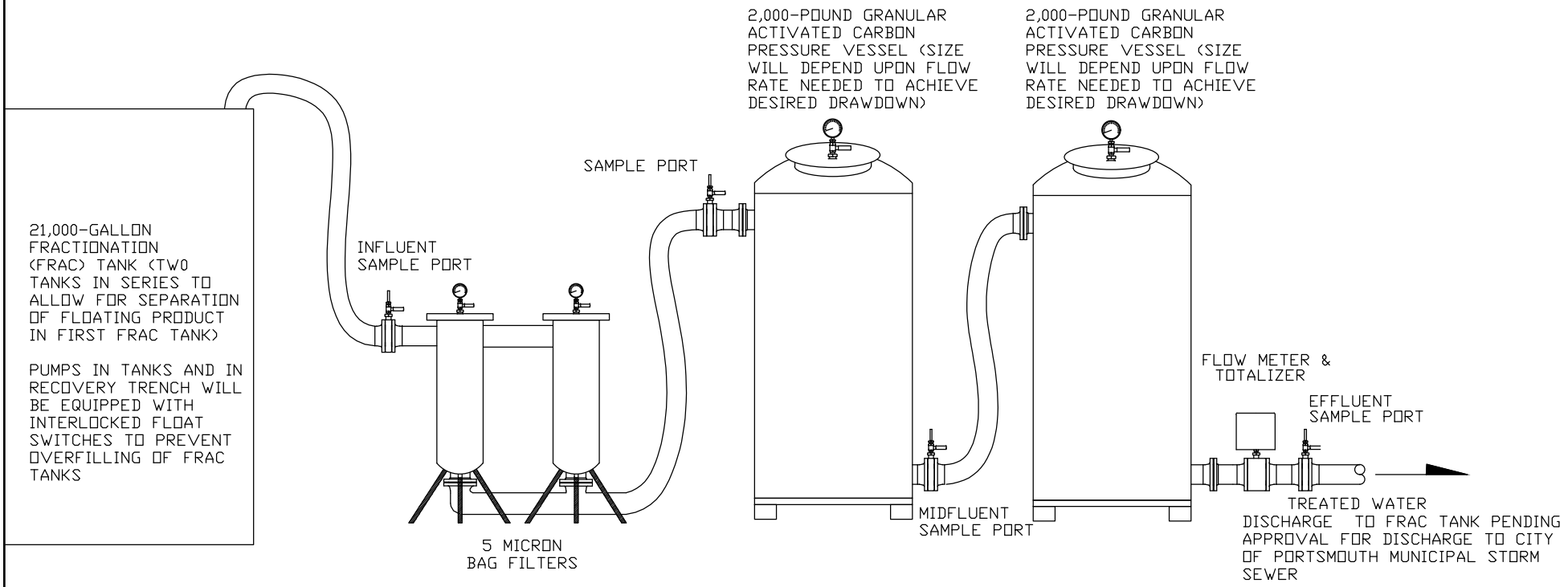
TITLE

SITE VICINITY PLAN

DATE	SCALE	FILE
June 29, 2020	GRAPHIC	MCNB0001_Site Vic.
APPROVED BY: BLS	DRAWN BY: AMK	REVISED
CLIENT: McNabb Properties, Ltd.		JOB NUMBER: MCNB0001
LOCATION: 60 Penhallow Street Portsmouth, New Hampshire		DRAWING NUMBER: *FIGURE 3*



TITLE
GROUNDWATER TREATMENT SYSTEM DIAGRAM

DATE: July 28, 2020	SCALE: Not To Scale	FILE: P & I Diagram
APPROVED BY: BLS	DRAWN BY: AMK	REVISED:
CLIENT: Dagny Taggert, LLC		JOB NUMBER: MCNB0001
LOCATION: Brick Market 60 Penhallow Street, Portsmouth, NH NHDES #202007013 and SPILL/RLS Project #39716		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:
Brick Market</td><td colspan="3">Site address: 60 Penhallow Street
Street:</td></tr>
<tr><td>City: Portsmouth</td><td>State: NH</td><td>Zip: 03801</td></tr>
<tr><td rowspan="4">2. Site owner
Dagny Taggart, LLC

Owner is (check one): ☐ Federal ☐ State/Tribal ■ Private
☐ Other; if so, specify:</td><td colspan="3">Contact Person: Mark McNabb</td></tr>
<tr><td colspan="2">Telephone: 603-427-0725</td><td>Email: house@mcnabbgroup.com</td></tr>
<tr><td colspan="3">Mailing address: 3 Pleasant Street, 4th Floor
Street:</td></tr>
<tr><td>City: Portsmouth</td><td>State: NH</td><td>Zip: 03801</td></tr>
<tr><td rowspan="4">3. Site operator, if different than owner
McNabb Properties, LLC</td><td colspan="3">Contact Person: Mark McNabb</td></tr>
<tr><td colspan="2">Telephone: 603-427-0725</td><td>Email: house@mcnabbgroup.com</td></tr>
<tr><td colspan="3">Mailing address:
Street: 30 Penhallow Street, Suite 300E</td></tr>
<tr><td>City: Portsmouth</td><td>State: NH</td><td>Zip: 3801</td></tr>
<tr><td>4. NPDES permit number assigned by EPA:

NPDES permit is (check all that apply: ■ RGP ☐ DGP ☐ CGP
☐ MSGP ☐ Individual NPDES permit ☐ Other; if so, specify:</td><td colspan="3">5. Other regulatory program(s) that apply to the site (check all that apply):
☐ MA Chapter 21e; list RTN(s):

■ NH Groundwater Management Permit or Groundwater Release Detection Permit:
NHDES #202007013, Project #39716

☐ 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):
Lower Piscataqua River - South	NHEST600031001-02-02	Class B

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

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

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

3. Indicate if the receiving water(s) is listed in the State's Integrated List of Waters (i.e., CWA Section 303(d)). Include which designated uses are impaired, and any pollutants indicated. Also, indicate if a final TMDL is available for any of the indicated pollutants. For more information, contact the appropriate State as noted in Part 4.6 of the RGP. Aquatic life: Estuarine bioassessments; Fish consumption: mercury, PCBs; Primary/Secondary contact: Enterococcus; Shellfish consumption: Dioxin

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: July 9, 2020

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

C. Source water information:

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

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

2. Source water contaminants: Arsenic and petroleum hydrocarbons.	
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): Outfall 12653	Outfall location(s): (Latitude, Longitude) 40.077847, -70.752780
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: Approval pending City review of this NOI and confirmation of municipal drain system flow capacity. 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): August 2020 through December 2020 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	350.1	100			Report mg/L	---
Chloride		✓	1	300.0	100,000	1,100		Report µg/l	---
Total Residual Chlorine	✓		1	4500	20			0.2 mg/L	7.5 ug/l
Total Suspended Solids		✓	1	2540D	1,000	15,000		30 mg/L	---
Antimony	✓		1	200.8	1.0			206 µg/L	
Arsenic		✓	1	200.8	0.8	19		104 µg/L	
Cadmium	✓		1	200.8	0.2			10.2 µg/L	
Chromium III		✓	1	200.8		2.3		323 µg/L	
Chromium VI	✓		1	3500	4.0			323 µg/L	
Copper		✓	1	200.8	1.0	9.9		242 µg/L	3.7 ug/l
Iron		✓	1	200.7	1.0	2.3		5,000 µg/L	
Lead		✓	1	200.8		1.5		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	5			235.8 µg/L	
Silver	✓		1	200.8	0.2			35.1 µg/L	
Zinc	✓		1	200.8	10			420 µg/L	
Cyanide	✓		1	4500	5			178 mg/L	
B. Non-Halogenated VOCs									
Total BTEX	✓		1	624.1	0.78			100 µg/L	---
Benzene	✓		1	624.1	0.14			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	80		1,080 µg/L	300 ug/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	0.110			4.4 µg/L	
1,2 Dichlorobenzene	✓		1	624.1	0.16			600 µg/L	---
1,3 Dichlorobenzene	✓		1	624.1	0.13			320 µg/L	---
1,4 Dichlorobenzene	✓		1	624.1	0.13			5.0 µg/L	---
Total dichlorobenzene	✓		1	624.1	0.41			763 µg/L in NH	---
1,1 Dichloroethane	✓		1	624.1	0.16			70 µg/L	---
1,2 Dichloroethane	✓		1	624.1	0.41			5.0 µg/L	---
1,1 Dichloroethylene	✓		1	624.1	0.32			3.2 µg/L	---
Ethylene Dibromide	✓		1	504.1	0.02			0.05 µg/L	---
Methylene Chloride	✓		1	624.1	0.340			4.6 µg/L	---
1,1,1 Trichloroethane	✓		1	624.1	0.2			200 µg/L	---
1,1,2 Trichloroethane	✓		1	624.1	0.16			5.0 µg/L	---
Trichloroethylene	✓		1	624.1	0.24			5.0 µg/L	---
Tetrachloroethylene	✓		1	624.1	0.18			5.0 µg/L	
cis-1,2 Dichloroethylene	✓		1	624.1	0.13			70 µg/L	---
Vinyl Chloride	✓		1	614.1	0.45			2.0 µg/L	---
D. Non-Halogenated SVOCs									
Total Phthalates	✓		1	625.1	1.93			190 µg/L	
Diethylhexyl phthalate	✓		1	625.1	0.282			101 µg/L	
Total Group I PAHs	✓		1	625.1	0.098			1.0 µg/L	---
Benzo(a)anthracene	✓		1	625.1	0.015			As Total PAHs	
Benzo(a)pyrene	✓		1	625.1	0.011				
Benzo(b)fluoranthene	✓		1	625.1	0.014				
Benzo(k)fluoranthene	✓		1	625.1	0.011				
Chrysene	✓		1	625.1	0.014				
Dibenzo(a,h)anthracene	✓		1	625.1	0.016				
Indeno(1,2,3-cd)pyrene	✓		1	625.1	0.017				

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	12.36		100 µg/L	---
Naphthalene		✓	1	625.1	0.42	0.52		20 µg/L	---
E. Halogenated SVOCs									
Total PCBs	✓		1	608.3	0.57			0.000064 µg/L	---
Pentachlorophenol	✓		1	625.1	0.31			1.0 µg/L	---
F. Fuels Parameters									
Total Petroleum Hydrocarbons		✓	1	8015	190	1,100		5.0 mg/L	---
Ethanol	✓		1	624.1	10.5			Report mg/L	---
Methyl-tert-Butyl Ether	✓		1	624.1	0.25			70 µg/L	
tert-Butyl Alcohol	✓		1	624.1	4.17			120 µg/L in MA 40 µg/L in NH	---
tert-Amyl Methyl Ether	✓		1	624.1	0.14			90 µg/L in MA 140 µg/L in NH	---
Other (i.e., pH, temperature, hardness, salinity, LC_{50}, additional pollutants present); if so, specify:									

E. Treatment system information

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

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

2. Provide a written description of all treatment system(s) or processes that will be applied to the effluent prior to discharge.
20,000-gallon primary settling - 20,000-gallon weir tank, sediment (bag) filters run in parallel, 2 x 20,000-galllon granular activated carbon canisters run in series, 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:

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:	Date: 08-14-2020
Print Name and Title:	MARK A. MCNABB, MANAGER

Enter number values in green boxes below

Enter values in the units specified

↓

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

Notes:

Freshwater: critical low flow equal to the 7Q10; enter alternate low flow if approved by the State
Saltwater (estuarine and marine): enter critical low flow if approved by the State; enter 0 if no entry
Discharge flow is equal to the design flow or 1 MGD, whichever is less
Optional entry for Q_s; leave 0 if no entry

Enter a dilution factor, if other than zero

↓

0

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

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

↓

8	pH in **Standard Units**
20	Temperature in **°C**
0	Ammonia in **µg/L**
5600	Hardness in **mg/L** $CaCO_3$
30.8	Salinity in **ppt**
0	Antimony in **µg/L**
19	Arsenic in **µg/L**
0	Cadmium in **µg/L**
6.2	Chromium III in **µg/L**
0	Chromium VI in **µg/L**
130	Copper in **µg/L**
0	Iron in **µg/L**
0	Lead in **µg/L**
0	Mercury in **µg/L**
0	Nickel in **µg/L**
190	Selenium in **µg/L**
0	Silver in **µg/L**
0	Zinc in **µg/L**

pH, temperature, and ammonia required for all discharges
Hardness required for freshwater
Salinity required for saltwater (estuarine and marine)
Metals required for all discharges if present and if dilution factor is > 1
Enter 0 if non-detect or testing not required

Enter **influent** concentrations in the units specified

↓

0	TRC in **µg/L**
9.09	Ammonia in **mg/L**
0	Antimony in **µg/L**
19	Arsenic in **µg/L**
0	Cadmium in **µg/L**
2.3	Chromium III in **µg/L**
0	Chromium VI in **µg/L**
9.9	Copper in **µg/L**
2300	Iron in **µg/L**
1.5	Lead in **µg/L**
0	Mercury in **µg/L**
0	Nickel in **µg/L**
0	Selenium in **µg/L**
0	Silver in **µg/L**
0	Zinc in **µg/L**
0	Cyanide in **µg/L**
800	Phenol in **µg/L**
0	Total Dichlorobenzene in **µg/L**
0	Total Phthalates in **µg/L**
0	Diethylhexylphthalate in **µg/L**
0	Benzo(a)anthracene in **µg/L**
0	Benzo(a)pyrene in **µg/L**
0	Benzo(b)fluoranthene in **µg/L**
0	Benzo(k)fluoranthene in **µg/L**
0	Chrysene in **µg/L**
0	Dibenzo(a,h)anthracene in **µg/L**
0	Indeno(1,2,3-cd)pyrene in **µg/L**

if >1 sample, enter maximum
if >10 samples, may enter 95th percentile
Enter 0 if non-detect or testing not required

Dilution Factor	1.0					
A. Inorganics	TBEL applies if bolded		WQBEL applies if bolded		Compliance Level applies if shown	
Ammonia	**Report**	mg/L	---			
Chloride	**Report**	µg/L	---			
Total Residual Chlorine	0.2	mg/L	**7.5**	µg/L	50	µg/L
Total Suspended Solids	**30**	mg/L	---			
Antimony	**206**	µg/L	4.3	mg/L		
Arsenic	**104**	µg/L	36	µg/L		
Cadmium	**10.2**	µg/L	9.4	µg/L		
Chromium III	**323**	µg/L	100.0	µg/L		
Chromium VI	**323**	µg/L	50	µg/L		
Copper	242	µg/L	**3.7**	µg/L		
Iron	**5000**	µg/L	---	µg/L		
Lead	**160**	µg/L	8.5	µg/L		
Mercury	**0.739**	µg/L	1.11	µg/L		
Nickel	**1450**	µg/L	8.3	µg/L		
Selenium	**235.8**	µg/L	71	µg/L		
Silver	**35.1**	µg/L	2.2	µg/L		
Zinc	**420**	µg/L	86	µg/L		
Cyanide	**178**	mg/L	1.0	µg/L	---	µg/L
B. Non-Halogenated VOCs						
Total BTEX	**100**	µg/L	---			
Benzene	**5.0**	µg/L	---			
1,4 Dioxane	**200**	µg/L	---			
Acetone	**7.97**	mg/L	---			
Phenol	1,080	µg/L	**300**	µg/L		
C. Halogenated VOCs						
Carbon Tetrachloride	**4.4**	µg/L	---			
1,2 Dichlorobenzene	**600**	µg/L	---			
1,3 Dichlorobenzene	**320**	µg/L	---			
1,4 Dichlorobenzene	**5.0**	µg/L	---			
Total dichlorobenzene	**763**	µg/L	---			
1,1 Dichloroethane	**70**	µg/L	---			
1,2 Dichloroethane	**5.0**	µg/L	---			
1,1 Dichloroethylene	**3.2**	µg/L	---			
Ethylene Dibromide	**0.05**	µg/L	---			
Methylene Chloride	**4.6**	µg/L	---			
1,1,1 Trichloroethane	**200**	µg/L	---			
1,1,2 Trichloroethane	**5.0**	µg/L	---			
Trichloroethylene	**5.0**	µg/L	---			
Tetrachloroethylene	**5.0**	µg/L	---			
cis-1,2 Dichloroethylene	**70**	µg/L	---			
Vinyl Chloride	**2.0**	µg/L	---			

D. Non-Halogenated SVOCs						
Total Phthalates	190	µg/L	3.0	µg/L		
Diethylhexyl phthalate	**101**	µg/L	2.2	µg/L		
Total Group I Polycyclic Aromatic Hydrocarbons	**1.0**	µg/L	---			
Benzo(a)anthracene	**1.0**	µg/L	0.0038	µg/L	---	µg/L
Benzo(a)pyrene	**1.0**	µg/L	0.0038	µg/L	---	µg/L
Benzo(b)fluoranthene	**1.0**	µg/L	0.0038	µg/L	---	µg/L
Benzo(k)fluoranthene	**1.0**	µg/L	0.0038	µg/L	---	µg/L
Chrysene	**1.0**	µg/L	0.0038	µg/L	---	µg/L
Dibenzo(a,h)anthracene	**1.0**	µg/L	0.0038	µg/L	---	µg/L
Indeno(1,2,3-cd)pyrene	**1.0**	µg/L	0.0038	µg/L	---	µg/L
Total Group II Polycyclic Aromatic Hydrocarbons	**100**	µg/L	---			
Naphthalene	**20**	µg/L	---			
E. Halogenated SVOCs						
Total Polychlorinated Biphenyls	**0.000064**	µg/L	---		0.5	µg/L
Pentachlorophenol	**1.0**	µg/L	---			
F. Fuels Parameters						
Total Petroleum Hydrocarbons	**5.0**	mg/L	---			
Ethanol	**Report**	mg/L	---			
Methyl-tert-Butyl Ether	**70**	µg/L	---			
tert-Butyl Alcohol	**120**	µg/L	---			
tert-Amyl Methyl Ether	**90**	µg/L	---			

APPENDIX B

Laboratory Data

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 21, 2020

Barrett Smith
Wilcox & Barton
996 Smith St
Providence, RI 02908

Project Location: 60 Penhallow St.
Client Job Number:
Project Number: MCNB0001
Laboratory Work Order Number: 20G0470

Enclosed are results of analyses for samples received by the laboratory on July 10, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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

Wilcox & Barton
996 Smith St
Providence, RI 02908
ATTN: Barrett Smith

REPORT DATE: 7/21/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: MCNB0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20G0470

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

PROJECT LOCATION: 60 Penhallow St.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-101	20G0470-01	Ground Water		608.3	
				624.1	
				625.1	
				EPA 1664B	
				EPA 200.7	
				EPA 200.8	
				EPA 245.1	
				EPA 300.0	
				EPA 350.1	
				EPA 420.1	
				EPA 504.1	
				SM21-22 2540D	
				SM21-22 3500 Cr B	
				SM21-22 4500 CL G	
				SM21-22 4500 CN E	MA M-MA-086/CT PH-0574/NY11148
				Tri Chrome Calc.	

con-test® 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 7/21/2020: Report revised to include ethanol on 624.1 analysis reporting list, per client request.

624.1

Qualifications:

L-01

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

Bromoform
B261798-BS1

625.1

Qualifications:

S-07

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol (SIM)
B261909-BS1, B261909-BSD1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

Di-n-octylphthalate
20G0470-01[MW-101], B261768-BLK1, B261768-BS1, B261768-BSD1

Indeno(1,2,3-cd)pyrene (SIM)
B261909-BS1, B261909-BSD1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Indeno(1,2,3-cd)pyrene (SIM)
20G0470-01[MW-101], B261909-BLK1

The results of analyses reported only relate to samples submitted to the Con-Test 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® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 60 Penhallow St. | Sample Description: | Work Order: 20G0470

Date Received: 7/10/2020

Field Sample #: MW-101 | Sampled: 7/10/2020 09:35

Sample ID: 20G0470-01

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	<3.79	50.0	3.79	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
tert-Amyl Methyl Ether (TAME)	<0.140	0.500	0.140	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Benzene	<0.180	1.00	0.180	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Bromodichloromethane	<0.160	2.00	0.160	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Bromoform	<0.460	2.00	0.460	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Bromomethane	<1.38	2.00	1.38	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
tert-Butyl Alcohol (TBA)	<4.17	20.0	4.17	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Carbon Tetrachloride	<0.110	2.00	0.110	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Chlorobenzene	<0.150	2.00	0.150	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Chlorodibromomethane	<0.210	2.00	0.210	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Chloroethane	<0.360	2.00	0.360	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Chloroform	<0.170	2.00	0.170	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Chloromethane	<0.450	2.00	0.450	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
1,2-Dichlorobenzene	<0.160	2.00	0.160	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
1,3-Dichlorobenzene	<0.120	2.00	0.120	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
1,2-Dichloroethane	<0.410	2.00	0.410	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
1,1-Dichloroethane	<0.160	2.00	0.160	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
1,1-Dichloroethylene	<0.320	2.00	0.320	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
trans-1,2-Dichloroethylene	<0.310	2.00	0.310	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
1,2-Dichloropropane	<0.200	2.00	0.200	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
cis-1,3-Dichloropropene	<0.130	2.00	0.130	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
1,4-Dioxane	<22.5	50.0	22.5	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
trans-1,3-Dichloropropene	<0.230	2.00	0.230	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Ethanol	<10.5	50.0	10.5	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Ethylbenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Methyl tert-Butyl Ether (MTBE)	<0.250	2.00	0.250	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Methylene Chloride	<0.340	5.00	0.340	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
1,1,2,2-Tetrachloroethane	<0.220	2.00	0.220	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Tetrachloroethylene	<0.180	2.00	0.180	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Toluene	<0.140	1.00	0.140	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
1,1,1-Trichloroethane	<0.200	2.00	0.200	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
1,1,2-Trichloroethane	<0.160	2.00	0.160	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Trichloroethylene	<0.240	2.00	0.240	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Trichlorofluoromethane (Freon 11)	<0.330	2.00	0.330	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
Vinyl Chloride	<0.450	2.00	0.450	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
m+p Xylene	<0.300	2.00	0.300	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH
o-Xylene	<0.170	1.00	0.170	µg/L	1		624.1	7/13/20	7/13/20 12:25	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		7/13/20 12:25
Toluene-d8	98.0	70-130		7/13/20 12:25
4-Bromofluorobenzene	103	70-130		7/13/20 12:25

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Project Location: 60 Penhallow St. Sample Description: Work Order: 20G0470

Date Received: 7/10/2020

Field Sample #: MW-101 Sampled: 7/10/2020 09:35

Sample ID: 20G0470-01

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)	<0.015	0.047	0.015	µg/L	1		625.1	7/14/20	7/14/20 17:28	IMR
Benzo(a)pyrene (SIM)	<0.011	0.095	0.011	µg/L	1		625.1	7/14/20	7/14/20 17:28	IMR
Benzo(b)fluoranthene (SIM)	<0.014	0.047	0.014	µg/L	1		625.1	7/14/20	7/14/20 17:28	IMR
Benzo(k)fluoranthene (SIM)	<0.011	0.19	0.011	µg/L	1		625.1	7/14/20	7/14/20 17:28	IMR
Chrysene (SIM)	<0.014	0.19	0.014	µg/L	1		625.1	7/14/20	7/14/20 17:28	IMR
Dibenz(a,h)anthracene (SIM)	<0.016	0.095	0.016	µg/L	1		625.1	7/14/20	7/14/20 17:28	IMR
Indeno(1,2,3-cd)pyrene (SIM)	<0.017	0.095	0.017	µg/L	1	V-20	625.1	7/14/20	7/14/20 17:28	IMR
Pentachlorophenol (SIM)	<0.31	0.95	0.31	µg/L	1		625.1	7/14/20	7/14/20 17:28	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	44.9	15-110		7/14/20 17:28
Phenol-d6 (SIM)	33.9	15-110		7/14/20 17:28
Nitrobenzene-d5	70.9	30-130		7/14/20 17:28
2-Fluorobiphenyl	60.6	30-130		7/14/20 17:28
2,4,6-Tribromophenol (SIM)	92.5	15-110		7/14/20 17:28
p-Terphenyl-d14	68.3	30-130		7/14/20 17:28

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Project Location: 60 Penhallow St. Sample Description: Work Order: 20G0470

Date Received: 7/10/2020

Field Sample #: MW-101 Sampled: 7/10/2020 09:35

Sample ID: 20G0470-01

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	4.01	4.74	0.219	µg/L	1	J	625.1	7/14/20	7/14/20 18:00	IMR
Acenaphthylene	<0.219	4.74	0.219	µg/L	1		625.1	7/14/20	7/14/20 18:00	IMR
Anthracene	0.711	4.74	0.191	µg/L	1	J	625.1	7/14/20	7/14/20 18:00	IMR
Benzo(g,h,i)perylene	<0.375	4.74	0.375	µg/L	1		625.1	7/14/20	7/14/20 18:00	IMR
Di-n-butylphthalate	<0.434	9.48	0.434	µg/L	1		625.1	7/14/20	7/14/20 18:00	IMR
Diethylphthalate	<0.213	9.48	0.213	µg/L	1		625.1	7/14/20	7/14/20 18:00	IMR
Dimethylphthalate	<0.291	9.48	0.291	µg/L	1		625.1	7/14/20	7/14/20 18:00	IMR
Di-n-octylphthalate	<0.495	9.48	0.495	µg/L	1	V-06	625.1	7/14/20	7/14/20 18:00	IMR
Bis(2-Ethylhexyl)phthalate	<0.492	9.48	0.492	µg/L	1		625.1	7/14/20	7/14/20 18:00	IMR
Fluoranthene	<0.282	4.74	0.282	µg/L	1		625.1	7/14/20	7/14/20 18:00	IMR
Fluorene	3.82	4.74	0.232	µg/L	1	J	625.1	7/14/20	7/14/20 18:00	IMR
Naphthalene	0.521	4.74	0.419	µg/L	1	J	625.1	7/14/20	7/14/20 18:00	IMR
Phenanthrene	3.30	4.74	0.272	µg/L	1	J	625.1	7/14/20	7/14/20 18:00	IMR
Pyrene	<0.242	4.74	0.242	µg/L	1		625.1	7/14/20	7/14/20 18:00	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	39.8	15-110		7/14/20 18:00
Phenol-d6	30.0	15-110		7/14/20 18:00
Nitrobenzene-d5	70.2	30-130		7/14/20 18:00
2-Fluorobiphenyl	70.0	30-130		7/14/20 18:00
2,4,6-Tribromophenol	73.2	15-110		7/14/20 18:00
p-Terphenyl-d14	76.7	30-130		7/14/20 18:00

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Project Location: 60 Penhallow St. Sample Description: Work Order: 20G0470

Date Received: 7/10/2020

Field Sample #: MW-101 Sampled: 7/10/2020 09:35

Sample ID: 20G0470-01

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]	<0.0872	0.0948	0.0872	µg/L	1		608.3	7/13/20	7/15/20 3:12	JMB
Aroclor-1221 [1]	<0.0763	0.0948	0.0763	µg/L	1		608.3	7/13/20	7/15/20 3:12	JMB
Aroclor-1232 [1]	<0.0943	0.0948	0.0943	µg/L	1		608.3	7/13/20	7/15/20 3:12	JMB
Aroclor-1242 [1]	<0.0820	0.0948	0.0820	µg/L	1		608.3	7/13/20	7/15/20 3:12	JMB
Aroclor-1248 [1]	<0.0900	0.0948	0.0900	µg/L	1		608.3	7/13/20	7/15/20 3:12	JMB
Aroclor-1254 [1]	<0.0498	0.0948	0.0498	µg/L	1		608.3	7/13/20	7/15/20 3:12	JMB
Aroclor-1260 [1]	<0.0929	0.0948	0.0929	µg/L	1		608.3	7/13/20	7/15/20 3:12	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.6	30-150		7/15/20 3:12
Decachlorobiphenyl [2]	87.1	30-150		7/15/20 3:12
Tetrachloro-m-xylene [1]	62.6	30-150		7/15/20 3:12
Tetrachloro-m-xylene [2]	64.3	30-150		7/15/20 3:12

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Project Location: 60 Penhallow St. Sample Description: Work Order: 20G0470

Date Received: 7/10/2020

Field Sample #: MW-101 Sampled: 7/10/2020 09:35

Sample ID: 20G0470-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0		µg/L	1		EPA 200.8	7/13/20	7/14/20 12:02	QNW
Arsenic	19	0.80		µg/L	1		EPA 200.8	7/13/20	7/14/20 12:02	QNW
Cadmium	ND	0.20		µg/L	1		EPA 200.8	7/13/20	7/14/20 12:02	QNW
Chromium	2.3	1.0		µg/L	1		EPA 200.8	7/13/20	7/14/20 12:02	QNW
Chromium, Trivalent	0.0023			mg/L	1		Tri Chrome Calc.	7/13/20	7/14/20 12:02	QNW
Copper	9.9	1.0		µg/L	1		EPA 200.8	7/13/20	7/14/20 12:02	QNW
Iron	2.3	0.050		mg/L	1		EPA 200.7	7/13/20	7/14/20 12:12	TBC
Lead	1.5	0.50		µg/L	1		EPA 200.8	7/13/20	7/14/20 13:50	QNW
Mercury	ND	0.00010		mg/L	1		EPA 245.1	7/13/20	7/14/20 14:05	AJL
Nickel	ND	5.0		µg/L	1		EPA 200.8	7/13/20	7/14/20 12:02	QNW
Selenium	ND	5.0	1.6	µg/L	1		EPA 200.8	7/13/20	7/14/20 12:02	QNW
Silver	ND	0.20		µg/L	1		EPA 200.8	7/13/20	7/14/20 12:02	QNW
Zinc	ND	10		µg/L	1		EPA 200.8	7/13/20	7/14/20 12:02	QNW

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

Project Location: 60 Penhallow St. Sample Description: Work Order: 20G0470

Date Received: 7/10/2020

Field Sample #: MW-101 Sampled: 7/10/2020 09:35

Sample ID: 20G0470-01

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	0.10	mg/L	1		EPA 350.1	7/13/20	7/15/20 10:44	MMH
Chloride	1100	100	mg/L	100		EPA 300.0	7/15/20	7/15/20 12:41	MMH
Chlorine, Residual	ND	0.020	mg/L	1		SM21-22 4500 CL G	7/10/20	7/11/20 0:42	DJM
Hexavalent Chromium	ND	0.0040	mg/L	1		SM21-22 3500 Cr B	7/10/20	7/10/20 19:15	AWA
Phenol	0.080	0.050	mg/L	1		EPA 420.1	7/14/20	7/15/20 12:00	LL
Total Suspended Solids	15	1.0	mg/L	1		SM21-22 2540D	7/13/20	7/13/20 13:37	LL
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L	1		EPA 1664B	7/14/20	7/14/20 9:30	LL

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Project Location: 60 Penhallow St. Sample Description: Work Order: 20G0470

Date Received: 7/10/2020

Field Sample #: MW-101 Sampled: 7/10/2020 09:35

Sample ID: 20G0470-01

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	7/13/20	7/14/20 0:39	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,3-Dibromopropane (1)	96.3	70-130					7/14/20 0:39

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

Project Location: 60 Penhallow St. Sample Description: Work Order: 20G0470

Date Received: 7/10/2020

Field Sample #: MW-101 Sampled: 7/10/2020 09:35

Sample ID: 20G0470-01

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.005	mg/L	1		SM21-22 4500 CN E	7/14/20	7/14/20 10:40	AAL

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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
20G0470-01 [MW-101]	B261776	1060	5.00	07/13/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0470-01 [MW-101]	B261798	5	5.00	07/13/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0470-01 [MW-101]	B261768	1060	1.00	07/14/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0470-01 [MW-101]	B261909	1060	1.00	07/14/20

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
20G0470-01 [MW-101]	B261859	1000	07/14/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0470-01 [MW-101]	B261811	50.0	50.0	07/13/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0470-01 [MW-101]	B261812	50.0	50.0	07/13/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0470-01 [MW-101]	B261808	6.00	6.00	07/13/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0470-01 [MW-101]	B261783	10.0	10.0	07/15/20

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Sample Extraction Data

EPA 350.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0470-01 [MW-101]	B261822	100	100	07/13/20

EPA 420.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0470-01 [MW-101]	B261860	50.0	50.0	07/14/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0470-01 [MW-101]	B261817	35.3	35.0	07/13/20

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
20G0470-01 [MW-101]	B261761	500	07/13/20

SM21-22 3500 Cr B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0470-01 [MW-101]	B261725	50.0	50.0	07/10/20

SM21-22 4500 CL G

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0470-01 [MW-101]	B261730	100	100	07/10/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Date
20G0470-01 [MW-101]	B261812	50.0	07/13/20

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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 B261798 - SW-846 5030B											
Blank (B261798-BLK1)				Prepared & Analyzed: 07/13/20							
Benzene	ND	1.00	µg/L								
Bromodichloromethane	ND	2.00	µg/L								
Bromoform	ND	2.00	µg/L								
Bromomethane	ND	2.00	µg/L								
Carbon Tetrachloride	ND	2.00	µg/L								
Chlorobenzene	ND	2.00	µg/L								
Chlorodibromomethane	ND	2.00	µg/L								
Chloroethane	ND	2.00	µg/L								
Chloroform	ND	2.00	µg/L								
Chloromethane	ND	2.00	µg/L								
1,2-Dichlorobenzene	ND	2.00	µg/L								
1,3-Dichlorobenzene	ND	2.00	µg/L								
1,4-Dichlorobenzene	ND	2.00	µg/L								
1,2-Dichloroethane	ND	2.00	µg/L								
1,1-Dichloroethane	ND	2.00	µg/L								
1,1-Dichloroethylene	ND	2.00	µg/L								
trans-1,2-Dichloroethylene	ND	2.00	µg/L								
1,2-Dichloropropane	ND	2.00	µg/L								
cis-1,3-Dichloropropene	ND	2.00	µg/L								
trans-1,3-Dichloropropene	ND	2.00	µg/L								
Ethanol	ND	50.0	µg/L								
Ethylbenzene	ND	2.00	µg/L								
Methyl tert-Butyl Ether (MTBE)	ND	2.00	µg/L								
Methylene Chloride	ND	5.00	µg/L								
1,1,2,2-Tetrachloroethane	ND	2.00	µg/L								
Tetrachloroethylene	ND	2.00	µg/L								
Toluene	ND	1.00	µg/L								
1,1,1-Trichloroethane	ND	2.00	µg/L								
1,1,2-Trichloroethane	ND	2.00	µg/L								
Trichloroethylene	ND	2.00	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.00	µg/L								
Vinyl Chloride	ND	2.00	µg/L								
m+p Xylene	ND	2.00	µg/L								
o-Xylene	ND	1.00	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*26.2*		µg/L	25.0		105		70-130			
Surrogate: Toluene-d8	*24.9*		µg/L	25.0		99.5		70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101		70-130			
LCS (B261798-BS1)				Prepared & Analyzed: 07/13/20							
Benzene	19	1.00	µg/L	20.0		92.8		65-135			
Bromodichloromethane	24	2.00	µg/L	20.0		119		65-135			
Bromoform	26	2.00	µg/L	20.0		**132**	*	70-130			L-01
Bromomethane	16	2.00	µg/L	20.0		79.3		15-185			
Carbon Tetrachloride	24	2.00	µg/L	20.0		119		70-130			
Chlorobenzene	21	2.00	µg/L	20.0		106		65-135			
Chlorodibromomethane	25	2.00	µg/L	20.0		126		70-135			
Chloroethane	18	2.00	µg/L	20.0		92.0		40-160			
Chloroform	22	2.00	µg/L	20.0		109		70-135			
Chloromethane	15	2.00	µg/L	20.0		75.0		20-205			
1,2-Dichlorobenzene	21	2.00	µg/L	20.0		104		65-135			
1,3-Dichlorobenzene	21	2.00	µg/L	20.0		106		70-130			
1,4-Dichlorobenzene	21	2.00	µg/L	20.0		104		65-135			

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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 B261798 - SW-846 5030B										
LCS (B261798-BS1)				Prepared & Analyzed: 07/13/20						
1,2-Dichloroethane	23	2.00	µg/L	20.0		114	70-130			
1,1-Dichloroethane	21	2.00	µg/L	20.0		107	70-130			
1,1-Dichloroethylene	22	2.00	µg/L	20.0		112	50-150			
trans-1,2-Dichloroethylene	20	2.00	µg/L	20.0		101	70-130			
1,2-Dichloropropane	21	2.00	µg/L	20.0		107	35-165			
cis-1,3-Dichloropropene	22	2.00	µg/L	20.0		111	25-175			
trans-1,3-Dichloropropene	25	2.00	µg/L	20.0		125	50-150			
Ethanol	220	50.0	µg/L	200		110	40-160			
Ethylbenzene	21	2.00	µg/L	20.0		105	60-140			
Methyl tert-Butyl Ether (MTBE)	22	2.00	µg/L	20.0		108	70-130			
Methylene Chloride	20	5.00	µg/L	20.0		98.8	60-140			
1,1,2,2-Tetrachloroethane	22	2.00	µg/L	20.0		108	60-140			
Tetrachloroethylene	24	2.00	µg/L	20.0		119	70-130			
Toluene	21	1.00	µg/L	20.0		106	70-130			
1,1,1-Trichloroethane	23	2.00	µg/L	20.0		117	70-130			
1,1,2-Trichloroethane	22	2.00	µg/L	20.0		111	70-130			
Trichloroethylene	22	2.00	µg/L	20.0		110	65-135			
Trichlorofluoromethane (Freon 11)	23	2.00	µg/L	20.0		115	50-150			
Vinyl Chloride	25	2.00	µg/L	20.0		123	5-195			
m+p Xylene	41	2.00	µg/L	40.0		103	70-130			
o-Xylene	21	1.00	µg/L	20.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.3*		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	*25.2*		µg/L	25.0		101	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 B261909 - SW-846 3510C											
Blank (B261909-BLK1)				Prepared & Analyzed: 07/14/20							
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								V-20
Pentachlorophenol (SIM)	ND	1.0	µg/L								
Surrogate: 2-Fluorophenol (SIM)	*92.4*		µg/L	200		46.2		15-110			
Surrogate: Phenol-d6 (SIM)	*70.5*		µg/L	200		35.2		15-110			
Surrogate: Nitrobenzene-d5	*75.6*		µg/L	100		75.6		30-130			
Surrogate: 2-Fluorobiphenyl	*74.6*		µg/L	100		74.6		30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*211*		µg/L	200		106		15-110			
Surrogate: p-Terphenyl-d14	*73.5*		µg/L	100		73.5		30-130			
LCS (B261909-BS1)				Prepared & Analyzed: 07/14/20							
Benzo(a)anthracene (SIM)	50.8	1.0	µg/L	50.0		102		33-143			
Benzo(a)pyrene (SIM)	52.9	2.0	µg/L	50.0		106		17-163			
Benzo(b)fluoranthene (SIM)	56.8	1.0	µg/L	50.0		114		24-159			
Benzo(k)fluoranthene (SIM)	53.4	4.0	µg/L	50.0		107		11-162			
Chrysene (SIM)	49.1	4.0	µg/L	50.0		98.2		17-168			
Dibenz(a,h)anthracene (SIM)	58.9	2.0	µg/L	50.0		118		10-227			
Indeno(1,2,3-cd)pyrene (SIM)	61.7	2.0	µg/L	50.0		123		10-171			V-06
Pentachlorophenol (SIM)	41.3	20	µg/L	50.0		82.6		14-176			
Surrogate: 2-Fluorophenol (SIM)	*108*		µg/L	200		53.9		15-110			
Surrogate: Phenol-d6 (SIM)	*84.4*		µg/L	200		42.2		15-110			
Surrogate: Nitrobenzene-d5	*85.7*		µg/L	100		85.7		30-130			
Surrogate: 2-Fluorobiphenyl	*88.8*		µg/L	100		88.8		30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*243*		µg/L	200		**122**	*	15-110			S-07
Surrogate: p-Terphenyl-d14	*74.6*		µg/L	100		74.6		30-130			
LCS Dup (B261909-BSD1)				Prepared & Analyzed: 07/14/20							
Benzo(a)anthracene (SIM)	48.0	1.0	µg/L	50.0		96.0		33-143	5.71	53	
Benzo(a)pyrene (SIM)	49.6	2.0	µg/L	50.0		99.3		17-163	6.43	72	
Benzo(b)fluoranthene (SIM)	53.1	1.0	µg/L	50.0		106		24-159	6.70	71	
Benzo(k)fluoranthene (SIM)	50.0	4.0	µg/L	50.0		100		11-162	6.53	63	
Chrysene (SIM)	46.4	4.0	µg/L	50.0		92.7		17-168	5.78	87	
Dibenz(a,h)anthracene (SIM)	54.9	2.0	µg/L	50.0		110		10-227	7.03	126	
Indeno(1,2,3-cd)pyrene (SIM)	57.7	2.0	µg/L	50.0		115		10-171	6.70	99	V-06
Pentachlorophenol (SIM)	38.8	20	µg/L	50.0		77.6		14-176	6.34	86	
Surrogate: 2-Fluorophenol (SIM)	*105*		µg/L	200		52.3		15-110			
Surrogate: Phenol-d6 (SIM)	*80.3*		µg/L	200		40.2		15-110			
Surrogate: Nitrobenzene-d5	*84.1*		µg/L	100		84.1		30-130			
Surrogate: 2-Fluorobiphenyl	*85.4*		µg/L	100		85.4		30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*231*		µg/L	200		**115**	*	15-110			S-07
Surrogate: p-Terphenyl-d14	*71.0*		µg/L	100		71.0		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 B261768 - SW-846 3510C										
Blank (B261768-BLK1)				Prepared & Analyzed: 07/14/20						
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							V-06
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	*86.4*		µg/L	200		43.2	15-110			
Surrogate: Phenol-d6	*64.4*		µg/L	200		32.2	15-110			
Surrogate: Nitrobenzene-d5	*72.9*		µg/L	100		72.9	30-130			
Surrogate: 2-Fluorobiphenyl	*74.6*		µg/L	100		74.6	30-130			
Surrogate: 2,4,6-Tribromophenol	*159*		µg/L	200		79.4	15-110			
Surrogate: p-Terphenyl-d14	*84.1*		µg/L	100		84.1	30-130			
LCS (B261768-BS1)				Prepared & Analyzed: 07/14/20						
Acenaphthene	34.4	5.00	µg/L	50.0		68.9	47-145			
Acenaphthylene	32.5	5.00	µg/L	50.0		65.0	33-145			
Anthracene	35.5	5.00	µg/L	50.0		71.0	27-133			
Benzo(g,h,i)perylene	34.8	5.00	µg/L	50.0		69.6	10-219			
Di-n-butylphthalate	43.4	10.0	µg/L	50.0		86.8	10-120			
Diethylphthalate	39.3	10.0	µg/L	50.0		78.7	10-120			
Dimethylphthalate	37.3	10.0	µg/L	50.0		74.6	10-120			
Di-n-octylphthalate	50.8	10.0	µg/L	50.0		102	4-146			V-06
Bis(2-Ethylhexyl)phthalate	46.9	10.0	µg/L	50.0		93.9	8-158			
Fluoranthene	36.6	5.00	µg/L	50.0		73.1	26-137			
Fluorene	36.1	5.00	µg/L	50.0		72.2	59-121			
Naphthalene	31.9	5.00	µg/L	50.0		63.9	21-133			
Phenanthrene	35.9	5.00	µg/L	50.0		71.8	54-120			
Pyrene	34.6	5.00	µg/L	50.0		69.2	52-120			
Surrogate: 2-Fluorophenol	*87.4*		µg/L	200		43.7	15-110			
Surrogate: Phenol-d6	*67.9*		µg/L	200		34.0	15-110			
Surrogate: Nitrobenzene-d5	*68.8*		µg/L	100		68.8	30-130			
Surrogate: 2-Fluorobiphenyl	*73.1*		µg/L	100		73.1	30-130			
Surrogate: 2,4,6-Tribromophenol	*155*		µg/L	200		77.5	15-110			
Surrogate: p-Terphenyl-d14	*79.5*		µg/L	100		79.5	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 B261768 - SW-846 3510C										
LCS Dup (B261768-BSD1)				Prepared & Analyzed: 07/14/20						
Acenaphthene	33.7	5.00	µg/L	50.0		67.5	47-145	2.05	48	
Acenaphthylene	32.3	5.00	µg/L	50.0		64.7	33-145	0.463	74	
Anthracene	34.8	5.00	µg/L	50.0		69.5	27-133	2.16	66	
Benzo(g,h,i)perylene	33.9	5.00	µg/L	50.0		67.7	10-219	2.71	97	
Di-n-butylphthalate	41.7	10.0	µg/L	50.0		83.4	10-120	4.09	47	
Diethylphthalate	37.6	10.0	µg/L	50.0		75.3	10-120	4.44	100	
Dimethylphthalate	36.9	10.0	µg/L	50.0		73.8	10-120	1.08	183	
Di-n-octylphthalate	47.7	10.0	µg/L	50.0		95.3	4-146	6.42	69	V-06
Bis(2-Ethylhexyl)phthalate	45.1	10.0	µg/L	50.0		90.2	8-158	4.00	82	
Fluoranthene	35.4	5.00	µg/L	50.0		70.9	26-137	3.14	66	
Fluorene	34.7	5.00	µg/L	50.0		69.4	59-121	3.96	38	
Naphthalene	32.4	5.00	µg/L	50.0		64.8	21-133	1.52	65	
Phenanthrene	35.3	5.00	µg/L	50.0		70.6	54-120	1.74	39	
Pyrene	33.2	5.00	µg/L	50.0		66.5	52-120	3.98	49	
Surrogate: 2-Fluorophenol	*85.2*		µg/L	200		42.6	15-110			
Surrogate: Phenol-d6	*65.1*		µg/L	200		32.5	15-110			
Surrogate: Nitrobenzene-d5	*69.4*		µg/L	100		69.4	30-130			
Surrogate: 2-Fluorobiphenyl	*73.0*		µg/L	100		73.0	30-130			
Surrogate: 2,4,6-Tribromophenol	*151*		µg/L	200		75.4	15-110			
Surrogate: p-Terphenyl-d14	*76.8*		µg/L	100		76.8	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 B261776 - SW-846 3510C										
Blank (B261776-BLK1)				Prepared: 07/13/20 Analyzed: 07/15/20						
Aroclor-1016	ND	0.100	µg/L							
Aroclor-1016 [2C]	ND	0.100	µg/L							
Aroclor-1221	ND	0.100	µg/L							
Aroclor-1221 [2C]	ND	0.100	µg/L							
Aroclor-1232	ND	0.100	µg/L							
Aroclor-1232 [2C]	ND	0.100	µg/L							
Aroclor-1242	ND	0.100	µg/L							
Aroclor-1242 [2C]	ND	0.100	µg/L							
Aroclor-1248	ND	0.100	µg/L							
Aroclor-1248 [2C]	ND	0.100	µg/L							
Aroclor-1254	ND	0.100	µg/L							
Aroclor-1254 [2C]	ND	0.100	µg/L							
Aroclor-1260	ND	0.100	µg/L							
Aroclor-1260 [2C]	ND	0.100	µg/L							
Surrogate: Decachlorobiphenyl	*0.586*		µg/L	1.00		58.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.585*		µg/L	1.00		58.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.704*		µg/L	1.00		70.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.742*		µg/L	1.00		74.2	30-150			
LCS (B261776-BS1)				Prepared: 07/13/20 Analyzed: 07/15/20						
Aroclor-1016	0.383	0.200	µg/L	0.500		76.6	50-140			
Aroclor-1016 [2C]	0.406	0.200	µg/L	0.500		81.2	50-140			
Aroclor-1260	0.369	0.200	µg/L	0.500		73.8	8-140			
Aroclor-1260 [2C]	0.403	0.200	µg/L	0.500		80.7	8-140			
Surrogate: Decachlorobiphenyl	*1.97*		µg/L	2.00		98.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.99*		µg/L	2.00		99.5	30-150			
Surrogate: Tetrachloro-m-xylene	*1.34*		µg/L	2.00		66.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.42*		µg/L	2.00		70.9	30-150			
LCS Dup (B261776-BSD1)				Prepared: 07/13/20 Analyzed: 07/15/20						
Aroclor-1016	0.399	0.200	µg/L	0.500		79.7	50-140	4.05		
Aroclor-1016 [2C]	0.427	0.200	µg/L	0.500		85.3	50-140	4.90		
Aroclor-1260	0.375	0.200	µg/L	0.500		74.9	8-140	1.44		
Aroclor-1260 [2C]	0.415	0.200	µg/L	0.500		83.1	8-140	2.90		
Surrogate: Decachlorobiphenyl	*1.72*		µg/L	2.00		86.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.74*		µg/L	2.00		87.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.39*		µg/L	2.00		69.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.47*		µg/L	2.00		73.3	30-150			
Matrix Spike (B261776-MS1)	**Source: 20G0470-01**			Prepared: 07/13/20 Analyzed: 07/15/20						
Aroclor-1016	0.355	0.190	µg/L	0.474	ND	74.9	50-140			
Aroclor-1016 [2C]	0.386	0.190	µg/L	0.474	ND	81.5	50-140			
Aroclor-1260	0.347	0.190	µg/L	0.474	ND	73.3	8-140			
Aroclor-1260 [2C]	0.385	0.190	µg/L	0.474	ND	81.2	8-140			
Surrogate: Decachlorobiphenyl	*1.73*		µg/L	1.90		91.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.75*		µg/L	1.90		92.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.25*		µg/L	1.90		66.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.31*		µg/L	1.90		68.9	30-150			

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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 B261776 - SW-846 3510C										
Matrix Spike Dup (B261776-MSD1)		**Source: 20G0470-01**		Prepared: 07/13/20 Analyzed: 07/15/20						
Aroclor-1016	0.330	0.190	µg/L	0.476	ND	69.4	50-140	7.15	36	
Aroclor-1016 [2C]	0.357	0.190	µg/L	0.476	ND	75.0	50-140	7.80	36	
Aroclor-1260	0.328	0.190	µg/L	0.476	ND	68.8	8-140	5.81	38	
Aroclor-1260 [2C]	0.363	0.190	µg/L	0.476	ND	76.2	8-140	5.91	38	
Surrogate: Decachlorobiphenyl	*1.57*		µg/L	1.90		82.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.63*		µg/L	1.90		85.5	30-150			
Surrogate: Tetrachloro-m-xylene	*1.16*		µg/L	1.90		61.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.21*		µg/L	1.90		63.4	30-150			

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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 B261808 - EPA 245.1										
Blank (B261808-BLK1)				Prepared: 07/13/20 Analyzed: 07/14/20						
Mercury	ND	0.00010	mg/L							
LCS (B261808-BS1)				Prepared: 07/13/20 Analyzed: 07/14/20						
Mercury	0.00391	0.00010	mg/L	0.00400		97.8	85-115			
LCS Dup (B261808-BSD1)				Prepared: 07/13/20 Analyzed: 07/14/20						
Mercury	0.00390	0.00010	mg/L	0.00400		97.4	85-115	0.338	20	
Duplicate (B261808-DUP1)		**Source: 20G0470-01**		Prepared: 07/13/20 Analyzed: 07/14/20						
Mercury	ND	0.00010	mg/L		ND			NC	30	
Matrix Spike (B261808-MS1)		**Source: 20G0470-01**		Prepared: 07/13/20 Analyzed: 07/14/20						
Mercury	0.00387	0.00010	mg/L	0.00400	ND	96.7	75-125			
Batch B261811 - EPA 200.7										
Blank (B261811-BLK1)				Prepared: 07/13/20 Analyzed: 07/14/20						
Iron	ND	0.050	mg/L							
LCS (B261811-BS1)				Prepared: 07/13/20 Analyzed: 07/14/20						
Iron	4.13	0.050	mg/L	4.00		103	85-115			
LCS Dup (B261811-BSD1)				Prepared: 07/13/20 Analyzed: 07/14/20						
Iron	4.05	0.050	mg/L	4.00		101	85-115	2.07	20	
Duplicate (B261811-DUP1)		**Source: 20G0470-01**		Prepared: 07/13/20 Analyzed: 07/14/20						
Iron	2.33	0.050	mg/L		2.30			1.08	20	
Matrix Spike (B261811-MS1)		**Source: 20G0470-01**		Prepared: 07/13/20 Analyzed: 07/14/20						
Iron	6.33	0.050	mg/L	4.00	2.30	101	70-130			
Batch B261812 - EPA 200.8										
Blank (B261812-BLK1)				Prepared: 07/13/20 Analyzed: 07/14/20						
Antimony	ND	1.0	µg/L							
Arsenic	ND	0.80	µg/L							
Cadmium	ND	0.20	µg/L							
Chromium	ND	1.0	µg/L							
Copper	ND	1.0	µg/L							
Lead	ND	0.50	µg/L							
Nickel	ND	5.0	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.20	µg/L							
Zinc	ND	10	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 B261812 - EPA 200.8										
LCS (B261812-BS1)				Prepared: 07/13/20 Analyzed: 07/14/20						
Antimony	510	10	µg/L	500		102	85-115			
Arsenic	527	8.0	µg/L	500		105	85-115			
Cadmium	512	2.0	µg/L	500		102	85-115			
Chromium	534	10	µg/L	500		107	85-115			
Copper	1040	10	µg/L	1000		104	85-115			
Lead	528	5.0	µg/L	500		106	85-115			
Nickel	494	50	µg/L	500		98.9	85-115			
Selenium	510	50	µg/L	500		102	85-115			
Silver	505	2.0	µg/L	500		101	85-115			
Zinc	1090	100	µg/L	1000		109	85-115			
LCS Dup (B261812-BSD1)				Prepared: 07/13/20 Analyzed: 07/14/20						
Antimony	518	10	µg/L	500		104	85-115	1.40	20	
Arsenic	539	8.0	µg/L	500		108	85-115	2.18	20	
Cadmium	518	2.0	µg/L	500		104	85-115	1.29	20	
Chromium	549	10	µg/L	500		110	85-115	2.83	20	
Copper	1050	10	µg/L	1000		105	85-115	0.970	20	
Lead	529	5.0	µg/L	500		106	85-115	0.277	20	
Nickel	496	50	µg/L	500		99.1	85-115	0.246	20	
Selenium	525	50	µg/L	500		105	85-115	2.83	20	
Silver	508	2.0	µg/L	500		102	85-115	0.659	20	
Zinc	1090	100	µg/L	1000		109	85-115	0.458	20	
Duplicate (B261812-DUP1)	**Source: 20G0470-01**			Prepared: 07/13/20 Analyzed: 07/14/20						
Antimony	ND	1.0	µg/L		ND			NC	20	
Arsenic	18.9	0.80	µg/L		18.9			0.412	20	
Cadmium	ND	0.20	µg/L		ND			NC	20	
Chromium	2.32	1.0	µg/L		2.28			2.08	20	
Copper	10.2	1.0	µg/L		9.91			2.43	20	
Lead	1.52	0.50	µg/L		1.51			0.382	20	
Nickel	ND	5.0	µg/L		ND			NC	20	
Selenium	ND	5.0	µg/L		ND			NC	20	
Silver	ND	0.20	µg/L		ND			NC	20	
Zinc	ND	10	µg/L		ND			NC	20	
Matrix Spike (B261812-MS1)	**Source: 20G0470-01**			Prepared: 07/13/20 Analyzed: 07/14/20						
Antimony	517	10	µg/L	500	ND	103	70-130			
Arsenic	556	8.0	µg/L	500	18.9	107	70-130			
Cadmium	513	2.0	µg/L	500	ND	103	70-130			
Chromium	526	10	µg/L	500	ND	105	70-130			
Copper	1060	10	µg/L	1000	9.91	105	70-130			
Lead	540	5.0	µg/L	500	1.51	108	70-130			
Nickel	488	50	µg/L	500	ND	97.6	70-130			
Selenium	522	50	µg/L	500	ND	104	70-130			
Silver	495	2.0	µg/L	500	ND	99.0	70-130			
Zinc	1100	100	µg/L	1000	ND	110	70-130			

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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 B261725 - SM21-22 3500 Cr B										
Blank (B261725-BLK1)				Prepared & Analyzed: 07/10/20						
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B261725-BS1)				Prepared & Analyzed: 07/10/20						
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		113	90-115			
LCS Dup (B261725-BSD1)				Prepared & Analyzed: 07/10/20						
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		115	90-115	1.34	11	
Matrix Spike (B261725-MS1)		**Source: 20G0470-01**		Prepared & Analyzed: 07/10/20						
Hexavalent Chromium	0.080	0.0040	mg/L	0.100	ND	79.5	34.7-148			
Matrix Spike Dup (B261725-MSD1)		**Source: 20G0470-01**		Prepared & Analyzed: 07/10/20						
Hexavalent Chromium	0.083	0.0040	mg/L	0.100	ND	82.6	34.7-148	3.77	13.2	
Batch B261730 - SM21-22 4500 CL G										
Blank (B261730-BLK1)				Prepared: 07/10/20 Analyzed: 07/11/20						
Chlorine, Residual	ND	0.020	mg/L							
LCS (B261730-BS1)				Prepared: 07/10/20 Analyzed: 07/11/20						
Chlorine, Residual	0.59	0.020	mg/L	0.641		91.3	85.3-130			
LCS Dup (B261730-BSD1)				Prepared: 07/10/20 Analyzed: 07/11/20						
Chlorine, Residual	0.59	0.020	mg/L	0.641		92.4	85.3-130	1.18	13.6	
Duplicate (B261730-DUP1)		**Source: 20G0470-01**		Prepared: 07/10/20 Analyzed: 07/11/20						
Chlorine, Residual	ND	0.020	mg/L		ND			NC	29.4	
Matrix Spike (B261730-MS1)		**Source: 20G0470-01**		Prepared: 07/10/20 Analyzed: 07/11/20						
Chlorine, Residual	0.28	0.020	mg/L	0.300	ND	91.8	10-169			
Batch B261761 - SM21-22 2540D										
Blank (B261761-BLK1)				Prepared & Analyzed: 07/13/20						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B261761-BS1)				Prepared & Analyzed: 07/13/20						
Total Suspended Solids	124	10	mg/L	200		62.0	57.4-123			
Batch B261783 - EPA 300.0										
Blank (B261783-BLK1)				Prepared & Analyzed: 07/15/20						
Chloride	ND	1.0	mg/L							

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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 B261783 - EPA 300.0										
LCS (B261783-BS1)				Prepared & Analyzed: 07/15/20						
Chloride	9.9		mg/L	10.0		99.3	90-110			
LCS Dup (B261783-BSD1)				Prepared & Analyzed: 07/15/20						
Chloride	9.9		mg/L	10.0		99.3	90-110	0.0161	20	
Batch B261822 - EPA 350.1										
Blank (B261822-BLK1)				Prepared: 07/13/20 Analyzed: 07/15/20						
Ammonia as N	ND	0.10	mg/L							
LCS (B261822-BS1)				Prepared: 07/13/20 Analyzed: 07/15/20						
Ammonia as N	2.0	0.10	mg/L	2.00		101	90-110			
LCS Dup (B261822-BSD1)				Prepared: 07/13/20 Analyzed: 07/15/20						
Ammonia as N	2.1	0.10	mg/L	2.00		104	90-110	2.98	20	
Batch B261859 - EPA 1664B										
Blank (B261859-BLK1)				Prepared & Analyzed: 07/14/20						
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L							
LCS (B261859-BS1)				Prepared & Analyzed: 07/14/20						
Silica Gel Treated HEM (SGT-HEM)	7.6		mg/L	10.0		76.0	64-132			
Batch B261860 - EPA 420.1										
Blank (B261860-BLK1)				Prepared: 07/14/20 Analyzed: 07/15/20						
Phenol	ND	0.050	mg/L							
LCS (B261860-BS1)				Prepared: 07/14/20 Analyzed: 07/15/20						
Phenol	0.52	0.050	mg/L	0.500		105	75.6-130			
LCS Dup (B261860-BSD1)				Prepared: 07/14/20 Analyzed: 07/15/20						
Phenol	0.53	0.050	mg/L	0.500		106	75.6-130	1.43	10.3	
Duplicate (B261860-DUP1)	**Source: 20G0470-01**			Prepared: 07/14/20 Analyzed: 07/15/20						
Phenol	0.10	0.050	mg/L		0.080			24.7	37.2	
Matrix Spike (B261860-MS1)	**Source: 20G0470-01**			Prepared: 07/14/20 Analyzed: 07/15/20						
Phenol	0.46	0.050	mg/L	0.500	0.080	76.7	34.1-149			

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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 B261817 - EPA 504 water										
Blank (B261817-BLK1)				Prepared & Analyzed: 07/13/20						
1,2-Dibromoethane (EDB)	ND	0.021	µg/L							
Surrogate: 1,3-Dibromopropane	*1.04*		µg/L	1.04		99.2	70-130			
LCS (B261817-BS1)				Prepared & Analyzed: 07/13/20						
1,2-Dibromoethane (EDB)	0.194	0.021	µg/L	0.260		74.4	70-130			
Surrogate: 1,3-Dibromopropane	*1.06*		µg/L	1.04		102	70-130			
LCS Dup (B261817-BSD1)				Prepared & Analyzed: 07/13/20						
1,2-Dibromoethane (EDB)	0.210	0.021	µg/L	0.262		80.0	70-130	7.88		
Surrogate: 1,3-Dibromopropane	*1.10*		µg/L	1.05		104	70-130			
MRL Check (B261817-MRL1)				Prepared & Analyzed: 07/13/20						
1,2-Dibromoethane (EDB)	0.0200	0.021	µg/L	0.0210		95.0	0-200			
Surrogate: 1,3-Dibromopropane	*1.03*		µg/L	1.05		98.2	70-130			
MRL Check (B261817-MRL2)				Prepared & Analyzed: 07/13/20						
1,2-Dibromoethane (EDB)	0.0154	0.021	µg/L	0.0206		75.0	0-200			
Surrogate: 1,3-Dibromopropane	*0.968*		µg/L	1.03		94.0	70-130			

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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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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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
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
Tetrachloroethylene	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	
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	
Iron	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Antimony	CT,MA,NH,NY,RI,NC,ME,VA
Arsenic	CT,MA,NH,NY,RI,NC,ME,VA
Cadmium	CT,MA,NH,NY,RI,NC,ME,VA
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Copper	CT,MA,NH,NY,RI,NC,ME,VA
Lead	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
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 245.1 in Water	

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
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 350.1 in Water	
Ammonia as N	NC,NY,MA,NH,RI,ME,VA
EPA 420.1 in Water	
Phenol	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 3500 Cr B in Water	
Hexavalent Chromium	NY,CT,NH,RI,ME,VA,NC
SM21-22 4500 CL G in Water	
Chlorine, Residual	CT,MA,RI,ME
SM21-22 4500 CN E in Water	
Cyanide	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST 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	06/30/2021
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2021
FL	Florida Department of Health	E871027 NELAP	06/30/2021
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2021
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2021
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2021

2060470

con-test ANALYTICAL LABORATORY

http://www.contestlabs.com

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 2_06262019

Page 1 of 2

Company Name:	Wilcox & Barton, Inc.
Address:	31B Commons Drive, Unit 12B, Londonderry NH
Phone:	603 - 364 - 4490
Project Name:	MCNB0001
Project Location:	60 Penhallow Street, Portsmouth NH
Project Number:	MCNB0001
Project Manager:	Barrett Smith
Con-Test Quote Name/Number:	
Invoice Recipient:	
Sampled By:	C. Montagna / B. Thornton

Requested Turnaround Time				Dissolved Metals Samples	
7-Day	☐	10-Day	☐	○	Field Filtered
PFAS 10-Day (std)	☐	Due Date:		○	Lab to Filter
Rush-Approval Required				**Orthophosphate Samples**	
1-Day	☐	3-Day	☒	○	Field Filtered
2-Day	☐	4-Day	☐	○	Lab to Filter

Data Delivery			
Format:	PDF	☒	EXCEL ☒
Other:			
CLP Like Data Pkg Required:		☐	
Email To:	bsmith, cwhelan, mnucci		
Fax To #:			

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1] Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE
1	MW-101	7/10/20	9:35	Grab	GW	U	6	9	5		

Ammonia by SM 4500 B and D	TSS by SM 2540 D	Cyanide by SM 4500-CN	VOCs by 624	sVOCs by 624 SIM	PCBs by 608	0.1 & Grease by EPA 1664B	Chlorides by SM4110B or 300	TRC by SM4500-Cl G and E	Total Metals by 200.7/200.8 ICP-MS	Chromium VI by 218.6
X	X	X	X	X	X	X	X	X	X	X

[2] Preservation Code

Courier Use Only

Total Number Of:

VIALS
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Contest is not responsible for missing samples from prepacked coolers

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time:
	7/10/20 1445
Received by: (signature)	Date/Time:
	7/10/20 1445
Relinquished by: (signature)	Date/Time:
	7/10/20 1720
Received by: (signature)	Date/Time:
Erik Mc 4.6	7/10/20 1720
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments: NPDES RGP Parameters 72 hour TAT

(A) = Total Metals = Sb, As, Cd, Cr, Cu, Fe, Pb, Hg, Ni, Se, Ag, Zn

Detection Limit Requirements		Special Requirements	
MA		☐	MA MCP Required
			MCP Certification Form Required
		☐	CT RCP Required
CT			RCP Certification Form Required
		☐	MA State DW Required
Other:		PWSID #	

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity

Government	☐	Municipality	☐	MWRA	☐	WRTA	☐
Federal	☐	21 J	☐	School	☐		
City	☐	Brownfield	☐	MBTA	☐		

Other
☐ Chromatogram
☐ AIHA-LAP, LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Lab Comments:

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20G0470

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39 Spruce Street
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CHAIN OF CUSTODY RECORD

Doc # 381 Rev 2_06262019

Page 2 of 2

Company Name: Wilcox & Barton, Inc.
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Phone: 603-369-4190
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Project Number: McNB0001
Project Manager: Barett Smith
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: C. Montagne / B. Thornton

Requested Turnaround Time
7-Day ☐ 10-Day ☐
PFAS 10-Day (std) ☐ Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☒
2-Day ☐ 4-Day ☐

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: bsmith, cwhelan, mnucci
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	Phenol by 420 (S)	EDB by 504 (T)
1	MW-101	7/10/20	9:35	Grab	GW	V	6	9	5			X	X

[2] Preservation Code: S, T

Relinquished by: (signature)	Date/Time:
Relinquished by: (signature) [signature] 7/10/20	1445
Received by: (signature) [signature]	7/10/20 1445
Relinquished by: (signature) [signature]	7/10/20 1720
Received by: (signature) [signature] 4.6	7/10/20 1720
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments: NPDES RGP Parameters
(A) 72 hour TAT

Detection Limit Requirements
MA
CT
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

Cooler Use Only
Total Number Of:
VIALS ______
GLASS ______
PLASTIC ______
BACTERIA ______
ENCORE ______

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Contest is not responsible for missing samples from prepacked coolers

[1] **Matrix Codes:**
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B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Lab Comments:

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Wand B

Received By CM Date 7/10/20 Time 1720

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 2 Actual Temp - 4.6

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? ~~F~~ T Who was notified? Mike

Are there Short Holds? RLF ~~F~~ T FCP 7/10/20 Who was notified? Mandi

Is there enough Volume? T

Is there ~~Headspace~~ where applicable? T MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid T Base T

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	8	1 Liter Plastic	2	16 oz Amb.	
HCL-	3	500 mL Amb.	1	500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	2	4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-	3	SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 24, 2020

Barrett Smith
Wilcox & Barton
996 Smith St
Providence, RI 02908

Project Location: 60 Penhallow St.
Client Job Number:
Project Number: MCNB0001
Laboratory Work Order Number: 20G0755

Enclosed are results of analyses for samples received by the laboratory on July 17, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Wilcox & Barton
996 Smith St
Providence, RI 02908
ATTN: Barrett Smith

REPORT DATE: 7/24/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: MCNB0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20G0755

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

PROJECT LOCATION: 60 Penhallow St.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-101	20G0755-01	Ground Water		SW-846 8015C	

con-test® 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.

SW-846 8015C

Qualifications:

H-10

Analysis was requested after the recommended holding time had passed.

Analyte & Samples(s) Qualified:

20G0755-01[MW-101]

O-31

Sample chromatography does not match reference standard exactly, possibly due to weathering.

Analyte & Samples(s) Qualified:

Fuel Oil #2
20G0755-01[MW-101]

The results of analyses reported only relate to samples submitted to the Con-Test 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® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 60 Penhallow St. Sample Description: Work Order: 20G0755

Date Received: 7/17/2020

Field Sample #: MW-101 Sampled: 7/10/2020 09:35

Sample ID: 20G0755-01

Sample Matrix: Ground Water

Sample Flags: H-10

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fuel Oil #2	1.1	0.19	mg/L	1	O-31	SW-846 8015C	7/20/20	7/24/20 7:33	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
2-Fluorobiphenyl	85.8	40-140					7/24/20 7:33	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0755-01 [MW-101]	B262230	1040	1.00	07/20/20

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B262230 - SW-846 3510C										
Blank (B262230-BLK1)				Prepared: 07/20/20 Analyzed: 07/23/20						
TPH (C9-C36)	ND	0.20	mg/L							
Surrogate: 2-Fluorobiphenyl	*0.0642*		mg/L	0.100		64.2	40-140			
LCS (B262230-BS1)				Prepared: 07/20/20 Analyzed: 07/23/20						
TPH (C9-C36)	0.719	0.20	mg/L	1.00		71.9	40-140			
Surrogate: 2-Fluorobiphenyl	*0.0781*		mg/L	0.100		78.1	40-140			
LCS Dup (B262230-BSD1)				Prepared: 07/20/20 Analyzed: 07/23/20						
TPH (C9-C36)	0.696	0.20	mg/L	1.00		69.6	40-140	3.30	25	
Surrogate: 2-Fluorobiphenyl	*0.0737*		mg/L	0.100		73.7	40-140			

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.
H-10	Analysis was requested after the recommended holding time had passed.
O-31	Sample chromatography does not match reference standard exactly, possibly due to weathering.

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

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PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2021

20G0755 ~~20G0470~~

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Invoice Recipient:	
Sampled By:	C. Montagna / B. Thornton

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7-Day	☐	10-Day	☐
PFAS 10-Day (std)	☐	Due Date:	

Rush Approval Required			
1-Day	☐	3-Day	☒
2-Day	☐	4-Day	☐

Dissolved Metals Samples	
○	Field Filtered
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1	MW-101	7/10/20	9:35	Grab	GW	U	6	9	5			X	X	X	X	X	X	X	X	X	X	X

Sample reactivated for TPH Fingerprint analysis, per client request - RJM 7/20/2020

Relinquished by: (signature)	Date/Time:
	7/10/20 1445
Received by: (signature)	Date/Time:
	7/10/20 1445
Relinquished by: (signature)	Date/Time:
	7/10/20 1720
Received by: (signature)	Date/Time:
	7/10/20 1720
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments: NPDES RGP Parameters 72 hour TAT

(A) = Total Metals = Sb, As, Cd, Cr, Cu, Fe, Pb, Hg, Ni, Se, Ag, Zn

Detection Limit Requirements	
MA	
CT	
Other:	

Special Requirements	
☐	MA MCP Required
	MCP Certification Form Required
☐	CT RCP Required
	RCP Certification Form Required
☐	MA State DW Required
PWSID #	

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NELAC and AIHA-LAP, LLC Accredited

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Federal	☐	21 J	☐	School	☐		
City	☐	Brownfield	☐	MBTA	☐		

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Lab Comments:

[2] Preservation Code

Courier Use Only

Total Number Of:
VIALS
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

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Dissolved Metals Samples: ○ Field Filtered ○ Lab to Filter
Orthophosphate Samples: ○ Field Filtered ○ Lab to Filter

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: bsmith, cwhelan, mnucci
Fax To #:

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Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	Phenol by 420 (S)	EDB by 504 (T)
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Preservation Code: S, T

Cooler Use Only
Total Number Of:
VIALS______
GLASS______
PLASTIC______
BACTERIA______
ENCORE______

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Contest is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished/Received	Date/Time
Relinquished by: (signature) [signature]	7/10/20 1445
Received by: (signature) [signature]	7/10/20 1445
Relinquished by: (signature) [signature]	7/10/20 1720
Received by: (signature) [signature] 4.6	7/10/20 1720
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments: NPDES RGP Parameters
(A) 72 hour TAT

Detection Limit Requirements
MA
CT
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Lab Comments:

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

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I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Wand B

Received By CM Date 7/10/20 Time 1720

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 4.6

By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? RT Who was notified? Mike

Are there Short Holds? RUF FCP 7/10/20 Who was notified? Mandi

Is there enough Volume? T

Is there Headspace where applicable? T MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid T Base T

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	8	1 Liter Plastic	2	16 oz Amb.	
HCL-	3	500 mL Amb.	1	500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	2	4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-	3	SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 4, 2020

Barrett Smith
Wilcox & Barton
996 Smith St
Providence, RI 02908

Project Location: 60 Penhallow St
Client Job Number:
Project Number: MCNB0001
Laboratory Work Order Number: 20G0943

Enclosed are results of analyses for samples received by the laboratory on July 22, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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Table of Contents (continued)

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

Wilcox & Barton
996 Smith St
Providence, RI 02908
ATTN: Barrett Smith

REPORT DATE: 8/4/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: MCNB0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20G0943

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

PROJECT LOCATION: 60 Penhallow St

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SW-1	20G0943-01	Water		608.3	
				624.1	
				625.1	
				EPA 1664B	
				EPA 200.7	
				EPA 200.8	
				EPA 245.1	
				EPA 300.0	
				EPA 350.1	
				EPA 420.1	
				EPA 504.1	
				SM21-22 2540D	
				SM21-22 3500 Cr B	
				SM21-22 4500 CL G	
				SM21-22 4500 CN E	CT PH-0197/NY11742
				Tri Chrome Calc.	

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CASE NARRATIVE SUMMARY

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

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

625.1

Qualifications:

S-07

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol (SIM)
20G0943-01[SW-1], B262815-BLK1, B262815-BS1, B262815-BSD1, B262815-MSD1

EPA 200.7

Qualifications:

DL-03

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

Iron
20G0943-01[SW-1], B262612-DUP1

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Hardness
20G0943-01[SW-1], B262612-MS1

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
20G0943-01[SW-1], B262614-DUP1

Cadmium
20G0943-01[SW-1], B262614-DUP1

Lead
20G0943-01[SW-1]

Nickel
20G0943-01[SW-1], B262614-DUP1

Silver
20G0943-01[SW-1], B262614-DUP1

Zinc
20G0943-01[SW-1], B262614-DUP1

SM21-22 3500 Cr B

Qualifications:

H-03

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:

Hexavalent Chromium
20G0943-01[SW-1]

SM21-22 4500 CL G

Qualifications:

H-03

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:

Chlorine, Residual
20G0943-01[SW-1], B262475-DUP1, B262475-MS1

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

R-03

Duplicate RPD outside of control limits. Reduced precision is expected for values near the reporting limit.

Analyte & Samples(s) Qualified:

Chlorine, Residual
20G0943-01[SW-1], B262475-DUP1

Z-01

SM 4500 CL G test had a calibration point outside of acceptable back-calculated recovery. Re-analysis yielded similar non-conformance.

Analyte & Samples(s) Qualified:

Chlorine, Residual
20G0943-01[SW-1]

The results of analyses reported only relate to samples submitted to the Con-Test 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.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 60 Penhallow St | Sample Description: | Work Order: 20G0943

Date Received: 7/22/2020

Field Sample #: SW-1 | Sampled: 7/21/2020 15:00

Sample ID: 20G0943-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	<3.79	50.0	3.79	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
tert-Amyl Methyl Ether (TAME)	<0.140	0.500	0.140	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Benzene	<0.180	1.00	0.180	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Bromodichloromethane	<0.160	2.00	0.160	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Bromoform	<0.460	2.00	0.460	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Bromomethane	<1.38	5.00	1.38	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
tert-Butyl Alcohol (TBA)	<4.17	20.0	4.17	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Carbon Tetrachloride	<0.110	2.00	0.110	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Chlorobenzene	<0.150	2.00	0.150	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Chlorodibromomethane	<0.210	2.00	0.210	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Chloroethane	<0.360	2.00	0.360	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Chloroform	<0.170	2.00	0.170	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Chloromethane	<0.450	2.00	0.450	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
1,2-Dichlorobenzene	<0.160	2.00	0.160	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
1,3-Dichlorobenzene	<0.120	2.00	0.120	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
1,2-Dichloroethane	<0.410	2.00	0.410	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
1,1-Dichloroethane	<0.160	2.00	0.160	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
1,1-Dichloroethylene	<0.320	2.00	0.320	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
trans-1,2-Dichloroethylene	<0.310	2.00	0.310	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
1,2-Dichloropropane	<0.200	2.00	0.200	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
cis-1,3-Dichloropropene	<0.130	2.00	0.130	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
1,4-Dioxane	<22.5	50.0	22.5	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
trans-1,3-Dichloropropene	<0.230	2.00	0.230	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Ethanol	<10.5	50.0	10.5	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Ethylbenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Methyl tert-Butyl Ether (MTBE)	<0.250	2.00	0.250	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Methylene Chloride	<0.340	5.00	0.340	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
1,1,2,2-Tetrachloroethane	<0.220	2.00	0.220	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Tetrachloroethylene	<0.180	2.00	0.180	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Toluene	<0.140	1.00	0.140	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
1,1,1-Trichloroethane	<0.200	2.00	0.200	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
1,1,2-Trichloroethane	<0.160	2.00	0.160	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Trichloroethylene	<0.240	2.00	0.240	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Trichlorofluoromethane (Freon 11)	<0.330	2.00	0.330	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
Vinyl Chloride	<0.450	2.00	0.450	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
m+p Xylene	<0.300	2.00	0.300	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF
o-Xylene	<0.170	1.00	0.170	µg/L	1		624.1	7/23/20	7/23/20 23:10	BRF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.3	70-130		7/23/20 23:10
Toluene-d8	100	70-130		7/23/20 23:10
4-Bromofluorobenzene	97.6	70-130		7/23/20 23:10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 60 Penhallow St | Sample Description: | Work Order: 20G0943

Date Received: 7/22/2020

Field Sample #: SW-1 | Sampled: 7/21/2020 15:00

Sample ID: 20G0943-01

Sample Matrix: 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)	<0.016	0.052	0.016	µg/L	1		625.1	7/27/20	7/28/20 10:42	RMW
Benzo(a)pyrene (SIM)	<0.012	0.10	0.012	µg/L	1		625.1	7/27/20	7/28/20 10:42	RMW
Benzo(b)fluoranthene (SIM)	<0.015	0.052	0.015	µg/L	1		625.1	7/27/20	7/28/20 10:42	RMW
Benzo(k)fluoranthene (SIM)	<0.012	0.21	0.012	µg/L	1		625.1	7/27/20	7/28/20 10:42	RMW
Chrysene (SIM)	<0.015	0.21	0.015	µg/L	1		625.1	7/27/20	7/28/20 10:42	RMW
Dibenz(a,h)anthracene (SIM)	<0.018	0.10	0.018	µg/L	1		625.1	7/27/20	7/28/20 10:42	RMW
Indeno(1,2,3-cd)pyrene (SIM)	<0.019	0.10	0.019	µg/L	1		625.1	7/27/20	7/28/20 10:42	RMW
Pentachlorophenol (SIM)	<0.34	1.0	0.34	µg/L	1		625.1	7/27/20	7/28/20 10:42	RMW

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	57.2		15-110		7/28/20 10:42
Phenol-d6 (SIM)	43.2		15-110		7/28/20 10:42
Nitrobenzene-d5	80.7		30-130		7/28/20 10:42
2-Fluorobiphenyl	75.8		30-130		7/28/20 10:42
2,4,6-Tribromophenol (SIM)	**118**	*	15-110	S-07	7/28/20 10:42
p-Terphenyl-d14	79.3		30-130		7/28/20 10:42

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 60 Penhallow St | Sample Description: | Work Order: 20G0943

Date Received: 7/22/2020

Field Sample #: SW-1 | Sampled: 7/21/2020 15:00

Sample ID: 20G0943-01

Sample Matrix: Water

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	<0.238	5.15	0.238	µg/L	1		625.1	7/27/20	7/28/20 15:26	IMR
Acenaphthylene	<0.238	5.15	0.238	µg/L	1		625.1	7/27/20	7/28/20 15:26	IMR
Anthracene	<0.208	5.15	0.208	µg/L	1		625.1	7/27/20	7/28/20 15:26	IMR
Benzo(g,h,i)perylene	<0.408	5.15	0.408	µg/L	1		625.1	7/27/20	7/28/20 15:26	IMR
Di-n-butylphthalate	<0.472	10.3	0.472	µg/L	1		625.1	7/27/20	7/28/20 15:26	IMR
Diethylphthalate	<0.232	10.3	0.232	µg/L	1		625.1	7/27/20	7/28/20 15:26	IMR
Dimethylphthalate	<0.316	10.3	0.316	µg/L	1		625.1	7/27/20	7/28/20 15:26	IMR
Di-n-octylphthalate	<0.538	10.3	0.538	µg/L	1		625.1	7/27/20	7/28/20 15:26	IMR
Bis(2-Ethylhexyl)phthalate	<0.535	10.3	0.535	µg/L	1		625.1	7/27/20	7/28/20 15:26	IMR
Fluoranthene	<0.306	5.15	0.306	µg/L	1		625.1	7/27/20	7/28/20 15:26	IMR
Fluorene	<0.253	5.15	0.253	µg/L	1		625.1	7/27/20	7/28/20 15:26	IMR
Naphthalene	<0.456	5.15	0.456	µg/L	1		625.1	7/27/20	7/28/20 15:26	IMR
Phenanthrene	<0.296	5.15	0.296	µg/L	1		625.1	7/27/20	7/28/20 15:26	IMR
Pyrene	<0.263	5.15	0.263	µg/L	1		625.1	7/27/20	7/28/20 15:26	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	51.6	15-110		7/28/20 15:26
Phenol-d6	39.1	15-110		7/28/20 15:26
Nitrobenzene-d5	73.1	30-130		7/28/20 15:26
2-Fluorobiphenyl	79.0	30-130		7/28/20 15:26
2,4,6-Tribromophenol	87.0	15-110		7/28/20 15:26
p-Terphenyl-d14	93.2	30-130		7/28/20 15:26

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 60 Penhallow St | Sample Description: | Work Order: 20G0943

Date Received: 7/22/2020

Field Sample #: SW-1 | Sampled: 7/21/2020 15:00

Sample ID: 20G0943-01

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.101	0.109	0.101	µg/L	1		608.3	7/28/20	7/30/20 6:12	PJG
Aroclor-1221 [1]	<0.0880	0.109	0.0880	µg/L	1		608.3	7/28/20	7/30/20 6:12	PJG
Aroclor-1232 [1]	<0.109	0.109	0.109	µg/L	1		608.3	7/28/20	7/30/20 6:12	PJG
Aroclor-1242 [1]	<0.0945	0.109	0.0945	µg/L	1		608.3	7/28/20	7/30/20 6:12	PJG
Aroclor-1248 [1]	<0.104	0.109	0.104	µg/L	1		608.3	7/28/20	7/30/20 6:12	PJG
Aroclor-1254 [1]	<0.0574	0.109	0.0574	µg/L	1		608.3	7/28/20	7/30/20 6:12	PJG
Aroclor-1260 [1]	<0.107	0.109	0.107	µg/L	1		608.3	7/28/20	7/30/20 6:12	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.9	30-150		7/30/20 6:12
Decachlorobiphenyl [2]	92.8	30-150		7/30/20 6:12
Tetrachloro-m-xylene [1]	76.8	30-150		7/30/20 6:12
Tetrachloro-m-xylene [2]	83.5	30-150		7/30/20 6:12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 60 Penhallow St | Sample Description: | Work Order: 20G0943

Date Received: 7/22/2020

Field Sample #: SW-1 | Sampled: 7/21/2020 15:00

Sample ID: 20G0943-01

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0		µg/L	5	DL-15	EPA 200.8	7/24/20	7/27/20 14:50	QNW
Arsenic	19	4.0		µg/L	5		EPA 200.8	7/24/20	7/27/20 14:50	QNW
Cadmium	ND	1.0		µg/L	5	DL-15	EPA 200.8	7/24/20	7/27/20 14:50	QNW
Chromium	6.2	5.0		µg/L	5		EPA 200.8	7/24/20	7/28/20 12:59	QNW
Chromium, Trivalent	0.0062			mg/L	1		Tri Chrome Calc.	7/24/20	7/29/20 11:16	QNW
Copper	130	5.0		µg/L	5		EPA 200.8	7/24/20	7/27/20 14:50	QNW
Iron	ND	0.25		mg/L	5	DL-03	EPA 200.7	7/24/20	7/28/20 18:09	TBC
Lead	ND	2.5		µg/L	5	DL-15	EPA 200.8	7/24/20	7/28/20 12:59	QNW
Mercury	ND	0.00010		mg/L	1		EPA 245.1	7/23/20	7/24/20 11:07	CJV
Nickel	ND	25		µg/L	5	DL-15	EPA 200.8	7/24/20	7/27/20 14:50	QNW
Selenium	190	25	8.2	µg/L	5		EPA 200.8	7/24/20	7/28/20 12:59	QNW
Silver	ND	1.0		µg/L	5	DL-15	EPA 200.8	7/24/20	7/27/20 14:50	QNW
Zinc	ND	50		µg/L	5	DL-15	EPA 200.8	7/24/20	7/27/20 14:50	QNW
Hardness	5600	14		mg/L	10	MS-19	EPA 200.7	7/24/20	7/29/20 10:37	TBC

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 60 Penhallow St | Sample Description: | Work Order: 20G0943

Date Received: 7/22/2020

Field Sample #: SW-1 | Sampled: 7/21/2020 15:00

Sample ID: 20G0943-01

Sample Matrix: Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	0.10	mg/L	1		EPA 350.1	7/27/20	7/28/20 20:14	MMH
Chloride	35	1.0	mg/L	1		EPA 300.0	7/26/20	7/26/20 21:09	EC
Chlorine, Residual	ND	0.020	mg/L	1	H-03, R-03, Z-01	SM21-22 4500 CL G	7/22/20	7/22/20 21:30	AWA
Hexavalent Chromium	ND	0.0040	mg/L	1	H-03	SM21-22 3500 Cr B	7/22/20	7/22/20 22:20	KMV
Phenol	ND	0.050	mg/L	1		EPA 420.1	7/23/20	7/27/20 10:59	LL
Total Suspended Solids	20	1.0	mg/L	1		SM21-22 2540D	7/23/20	7/23/20 13:46	LL
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L	1		EPA 1664B	7/23/20	7/23/20 13:02	LL

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

Project Location: 60 Penhallow St | Sample Description: | Work Order: 20G0943

Date Received: 7/22/2020

Field Sample #: SW-1 | Sampled: 7/21/2020 15:00

Sample ID: 20G0943-01

Sample Matrix: 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	7/31/20	7/31/20 21:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,3-Dibromopropane (1)	111	70-130					7/31/20 21:06

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Project Location: 60 Penhallow St | Sample Description: | Work Order: 20G0943

Date Received: 7/22/2020

Field Sample #: SW-1 | Sampled: 7/21/2020 15:00

Sample ID: 20G0943-01

Sample Matrix: Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.005	mg/L	1		SM21-22 4500 CN E		8/1/20 0:00	PAL

con-test® ANALYTICAL LABORATORY
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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
20G0943-01 [SW-1]	B262730	915	5.00	07/28/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0943-01 [SW-1]	B262515	5	5.00	07/23/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0943-01 [SW-1]	B262701	970	1.00	07/27/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0943-01 [SW-1]	B262815	970	1.00	07/27/20

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0943-01 [SW-1]	B262500	1000		07/23/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0943-01 [SW-1]	B262612	50.0	50.0	07/24/20
20G0943-01 [SW-1]	B262612	50.0		07/24/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0943-01 [SW-1]	B262614	50.0	50.0	07/24/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0943-01 [SW-1]	B262532	6.00	6.00	07/23/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0943-01 [SW-1]	B262666	10.0	10.0	07/26/20

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Sample Extraction Data

EPA 350.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0943-01 [SW-1]	B262786	50.0	50.0	07/27/20

EPA 420.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0943-01 [SW-1]	B262501	50.0	50.0	07/23/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0943-01 [SW-1]	B263185	36.4	35.0	07/31/20

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
20G0943-01 [SW-1]	B262505	500	07/23/20

SM21-22 3500 Cr B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0943-01 [SW-1]	B262482	50.0	50.0	07/22/20

SM21-22 4500 CL G

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20G0943-01 [SW-1]	B262475	100	100	07/22/20

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

Lab Number [Field ID]	Batch	Initial [mL]	Date
20G0943-01 [SW-1]	B262614	50.0	07/24/20

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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 B262515 - SW-846 5030B										
Blank (B262515-BLK1)				Prepared & Analyzed: 07/23/20						
Benzene	ND	1.00	µg/L							
Bromodichloromethane	ND	2.00	µg/L							
Bromoform	ND	2.00	µg/L							
Bromomethane	ND	2.00	µg/L							
Carbon Tetrachloride	ND	2.00	µg/L							
Chlorobenzene	ND	2.00	µg/L							
Chlorodibromomethane	ND	2.00	µg/L							
Chloroethane	ND	2.00	µg/L							
Chloroform	ND	2.00	µg/L							
Chloromethane	ND	2.00	µg/L							
1,2-Dichlorobenzene	ND	2.00	µg/L							
1,3-Dichlorobenzene	ND	2.00	µg/L							
1,4-Dichlorobenzene	ND	2.00	µg/L							
1,2-Dichloroethane	ND	2.00	µg/L							
1,1-Dichloroethane	ND	2.00	µg/L							
1,1-Dichloroethylene	ND	2.00	µg/L							
trans-1,2-Dichloroethylene	ND	2.00	µg/L							
1,2-Dichloropropane	ND	2.00	µg/L							
cis-1,3-Dichloropropene	ND	2.00	µg/L							
trans-1,3-Dichloropropene	ND	2.00	µg/L							
Ethanol	ND	50.0	µg/L							
Ethylbenzene	ND	2.00	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	2.00	µg/L							
Methylene Chloride	ND	5.00	µg/L							
1,1,2,2-Tetrachloroethane	ND	2.00	µg/L							
Tetrachloroethylene	ND	2.00	µg/L							
Toluene	ND	1.00	µg/L							
1,1,1-Trichloroethane	ND	2.00	µg/L							
1,1,2-Trichloroethane	ND	2.00	µg/L							
Trichloroethylene	ND	2.00	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.00	µg/L							
Vinyl Chloride	ND	2.00	µg/L							
m+p Xylene	ND	2.00	µg/L							
o-Xylene	ND	1.00	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*22.1*		µg/L	25.0		88.6	70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*24.4*		µg/L	25.0		97.6	70-130			
LCS (B262515-BS1)				Prepared & Analyzed: 07/23/20						
Benzene	18	1.00	µg/L	20.0		91.5	65-135			
Bromodichloromethane	21	2.00	µg/L	20.0		107	65-135			
Bromoform	19	2.00	µg/L	20.0		97.1	70-130			
Bromomethane	17	2.00	µg/L	20.0		87.4	15-185			
Carbon Tetrachloride	19	2.00	µg/L	20.0		93.8	70-130			
Chlorobenzene	18	2.00	µg/L	20.0		91.1	65-135			
Chlorodibromomethane	21	2.00	µg/L	20.0		105	70-135			
Chloroethane	16	2.00	µg/L	20.0		80.9	40-160			
Chloroform	20	2.00	µg/L	20.0		98.1	70-135			
Chloromethane	7.4	2.00	µg/L	20.0		37.2	20-205			
1,2-Dichlorobenzene	18	2.00	µg/L	20.0		90.6	65-135			
1,3-Dichlorobenzene	18	2.00	µg/L	20.0		90.6	70-130			
1,4-Dichlorobenzene	18	2.00	µg/L	20.0		88.7	65-135			

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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 B262515 - SW-846 5030B										
LCS (B262515-BS1)				Prepared & Analyzed: 07/23/20						
1,2-Dichloroethane	23	2.00	µg/L	20.0		117	70-130			
1,1-Dichloroethane	19	2.00	µg/L	20.0		96.6	70-130			
1,1-Dichloroethylene	20	2.00	µg/L	20.0		97.6	50-150			
trans-1,2-Dichloroethylene	19	2.00	µg/L	20.0		96.5	70-130			
1,2-Dichloropropane	21	2.00	µg/L	20.0		104	35-165			
cis-1,3-Dichloropropene	19	2.00	µg/L	20.0		95.4	25-175			
trans-1,3-Dichloropropene	20	2.00	µg/L	20.0		100	50-150			
Ethanol	150	50.0	µg/L	200		75.8	40-160			
Ethylbenzene	18	2.00	µg/L	20.0		89.3	60-140			
Methyl tert-Butyl Ether (MTBE)	19	2.00	µg/L	20.0		93.2	70-130			
Methylene Chloride	18	5.00	µg/L	20.0		87.8	60-140			
1,1,2,2-Tetrachloroethane	19	2.00	µg/L	20.0		94.6	60-140			
Tetrachloroethylene	23	2.00	µg/L	20.0		116	70-130			
Toluene	19	1.00	µg/L	20.0		97.2	70-130			
1,1,1-Trichloroethane	20	2.00	µg/L	20.0		99.8	70-130			
1,1,2-Trichloroethane	22	2.00	µg/L	20.0		110	70-130			
Trichloroethylene	22	2.00	µg/L	20.0		111	65-135			
Trichlorofluoromethane (Freon 11)	17	2.00	µg/L	20.0		85.6	50-150			
Vinyl Chloride	15	2.00	µg/L	20.0		74.8	5-195			
m+p Xylene	36	2.00	µg/L	40.0		90.4	70-130			
o-Xylene	18	1.00	µg/L	20.0		90.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	*22.3*		µg/L	25.0		89.1	70-130			
Surrogate: Toluene-d8	*25.4*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*25.2*		µg/L	25.0		101	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 B262815 - SW-846 3510C											
Blank (B262815-BLK1)				Prepared & Analyzed: 07/28/20							
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)	*104*		µg/L	200		51.8		15-110			
Surrogate: Phenol-d6 (SIM)	*72.5*		µg/L	200		36.3		15-110			
Surrogate: Nitrobenzene-d5	*78.5*		µg/L	100		78.5		30-130			
Surrogate: 2-Fluorobiphenyl	*76.2*		µg/L	100		76.2		30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*224*		µg/L	200		**112**	*	15-110			S-07
Surrogate: p-Terphenyl-d14	*79.0*		µg/L	100		79.0		30-130			
LCS (B262815-BS1)				Prepared & Analyzed: 07/28/20							
Benzo(a)anthracene (SIM)	51.6	1.0	µg/L	50.0		103		33-143			
Benzo(a)pyrene (SIM)	53.1	2.0	µg/L	50.0		106		17-163			
Benzo(b)fluoranthene (SIM)	57.1	1.0	µg/L	50.0		114		24-159			
Benzo(k)fluoranthene (SIM)	53.8	4.0	µg/L	50.0		108		11-162			
Chrysene (SIM)	49.5	4.0	µg/L	50.0		99.1		17-168			
Dibenz(a,h)anthracene (SIM)	58.3	2.0	µg/L	50.0		117		10-227			
Indeno(1,2,3-cd)pyrene (SIM)	61.2	2.0	µg/L	50.0		122		10-171			
Pentachlorophenol (SIM)	41.6	20	µg/L	50.0		83.1		14-176			
Surrogate: 2-Fluorophenol (SIM)	*107*		µg/L	200		53.3		15-110			
Surrogate: Phenol-d6 (SIM)	*78.2*		µg/L	200		39.1		15-110			
Surrogate: Nitrobenzene-d5	*85.3*		µg/L	100		85.3		30-130			
Surrogate: 2-Fluorobiphenyl	*88.9*		µg/L	100		88.9		30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*256*		µg/L	200		**128**	*	15-110			S-07
Surrogate: p-Terphenyl-d14	*78.3*		µg/L	100		78.3		30-130			
LCS Dup (B262815-BSD1)				Prepared & Analyzed: 07/28/20							
Benzo(a)anthracene (SIM)	50.6	1.0	µg/L	50.0		101		33-143	1.92	53	
Benzo(a)pyrene (SIM)	52.6	2.0	µg/L	50.0		105		17-163	0.908	72	
Benzo(b)fluoranthene (SIM)	56.8	1.0	µg/L	50.0		114		24-159	0.527	71	
Benzo(k)fluoranthene (SIM)	53.6	4.0	µg/L	50.0		107		11-162	0.335	63	
Chrysene (SIM)	49.1	4.0	µg/L	50.0		98.1		17-168	0.974	87	
Dibenz(a,h)anthracene (SIM)	58.2	2.0	µg/L	50.0		116		10-227	0.309	126	
Indeno(1,2,3-cd)pyrene (SIM)	60.7	2.0	µg/L	50.0		121		10-171	0.722	99	
Pentachlorophenol (SIM)	41.0	20	µg/L	50.0		82.0		14-176	1.36	86	
Surrogate: 2-Fluorophenol (SIM)	*108*		µg/L	200		54.1		15-110			
Surrogate: Phenol-d6 (SIM)	*78.7*		µg/L	200		39.4		15-110			
Surrogate: Nitrobenzene-d5	*83.2*		µg/L	100		83.2		30-130			
Surrogate: 2-Fluorobiphenyl	*86.7*		µg/L	100		86.7		30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*252*		µg/L	200		**126**	*	15-110			S-07
Surrogate: p-Terphenyl-d14	*79.4*		µg/L	100		79.4		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 B262815 - SW-846 3510C											
Matrix Spike (B262815-MS1)		**Source: 20G0943-01**		Prepared & Analyzed: 07/28/20							
Benzo(a)anthracene (SIM)	43.5	0.96	µg/L	48.1	ND	90.6		33-143			
Benzo(a)pyrene (SIM)	45.2	1.9	µg/L	48.1	ND	94.0		17-163			
Benzo(b)fluoranthene (SIM)	49.1	0.96	µg/L	48.1	ND	102		24-159			
Benzo(k)fluoranthene (SIM)	46.6	3.8	µg/L	48.1	ND	97.0		11-162			
Chrysene (SIM)	42.5	3.8	µg/L	48.1	ND	88.3		17-168			
Dibenz(a,h)anthracene (SIM)	50.0	1.9	µg/L	48.1	ND	104		10-227			
Indeno(1,2,3-cd)pyrene (SIM)	52.1	1.9	µg/L	48.1	ND	108		10-171			
Pentachlorophenol (SIM)	33.6	19	µg/L	48.1	ND	69.8		14-176			
Surrogate: 2-Fluorophenol (SIM)	*90.5*		µg/L	192		47.1		15-110			
Surrogate: Phenol-d6 (SIM)	*71.2*		µg/L	192		37.0		15-110			
Surrogate: Nitrobenzene-d5	*67.7*		µg/L	96.2		70.4		30-130			
Surrogate: 2-Fluorobiphenyl	*71.5*		µg/L	96.2		74.4		30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*211*		µg/L	192		110		15-110			
Surrogate: p-Terphenyl-d14	*65.0*		µg/L	96.2		67.6		30-130			
Matrix Spike Dup (B262815-MSD1)		**Source: 20G0943-01**		Prepared & Analyzed: 07/28/20							
Benzo(a)anthracene (SIM)	48.0	1.0	µg/L	50.0	ND	96.0		33-143	9.75	53	
Benzo(a)pyrene (SIM)	49.9	2.0	µg/L	50.0	ND	99.9		17-163	10.0	72	
Benzo(b)fluoranthene (SIM)	54.9	1.0	µg/L	50.0	ND	110		24-159	11.2	71	
Benzo(k)fluoranthene (SIM)	52.2	4.0	µg/L	50.0	ND	104		11-162	11.3	63	
Chrysene (SIM)	46.9	4.0	µg/L	50.0	ND	93.8		17-168	9.98	87	
Dibenz(a,h)anthracene (SIM)	53.8	2.0	µg/L	50.0	ND	108		10-227	7.29	126	
Indeno(1,2,3-cd)pyrene (SIM)	56.9	2.0	µg/L	50.0	ND	114		10-171	8.89	99	
Pentachlorophenol (SIM)	36.0	20	µg/L	50.0	ND	72.0		14-176	7.02	86	
Surrogate: 2-Fluorophenol (SIM)	*106*		µg/L	200		53.0		15-110			
Surrogate: Phenol-d6 (SIM)	*81.2*		µg/L	200		40.6		15-110			
Surrogate: Nitrobenzene-d5	*78.7*		µg/L	100		78.7		30-130			
Surrogate: 2-Fluorobiphenyl	*83.9*		µg/L	100		83.9		30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*234*		µg/L	200		**117**	*	15-110			S-07
Surrogate: p-Terphenyl-d14	*72.1*		µg/L	100		72.1		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 B262701 - SW-846 3510C										
Blank (B262701-BLK1)				Prepared: 07/27/20 Analyzed: 07/28/20						
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	*108*		µg/L	200		53.8	15-110			
Surrogate: Phenol-d6	*77.1*		µg/L	200		38.5	15-110			
Surrogate: Nitrobenzene-d5	*82.6*		µg/L	100		82.6	30-130			
Surrogate: 2-Fluorobiphenyl	*86.4*		µg/L	100		86.4	30-130			
Surrogate: 2,4,6-Tribromophenol	*179*		µg/L	200		89.7	15-110			
Surrogate: p-Terphenyl-d14	*101*		µg/L	100		101	30-130			
LCS (B262701-BS1)				Prepared: 07/27/20 Analyzed: 07/28/20						
Acenaphthene	38.7	5.00	µg/L	50.0		77.4	47-145			
Acenaphthylene	36.7	5.00	µg/L	50.0		73.4	33-145			
Anthracene	42.0	5.00	µg/L	50.0		84.0	27-133			
Benzo(g,h,i)perylene	35.8	5.00	µg/L	50.0		71.6	10-219			
Di-n-butylphthalate	44.4	10.0	µg/L	50.0		88.8	10-120			
Diethylphthalate	41.0	10.0	µg/L	50.0		81.9	10-120			
Dimethylphthalate	42.0	10.0	µg/L	50.0		83.9	10-120			
Di-n-octylphthalate	43.8	10.0	µg/L	50.0		87.6	4-146			
Bis(2-Ethylhexyl)phthalate	44.6	10.0	µg/L	50.0		89.2	8-158			
Fluoranthene	43.3	5.00	µg/L	50.0		86.5	26-137			
Fluorene	41.3	5.00	µg/L	50.0		82.5	59-121			
Naphthalene	34.3	5.00	µg/L	50.0		68.6	21-133			
Phenanthrene	42.0	5.00	µg/L	50.0		84.0	54-120			
Pyrene	40.3	5.00	µg/L	50.0		80.6	52-120			
Surrogate: 2-Fluorophenol	*110*		µg/L	200		55.2	15-110			
Surrogate: Phenol-d6	*79.1*		µg/L	200		39.6	15-110			
Surrogate: Nitrobenzene-d5	*86.5*		µg/L	100		86.5	30-130			
Surrogate: 2-Fluorobiphenyl	*87.9*		µg/L	100		87.9	30-130			
Surrogate: 2,4,6-Tribromophenol	*178*		µg/L	200		89.1	15-110			
Surrogate: p-Terphenyl-d14	*92.6*		µg/L	100		92.6	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 B262701 - SW-846 3510C										
LCS Dup (B262701-BSD1)				Prepared: 07/27/20 Analyzed: 07/28/20						
Acenaphthene	36.4	5.00	µg/L	50.0		72.7	47-145	6.23	48	
Acenaphthylene	34.0	5.00	µg/L	50.0		68.1	33-145	7.52	74	
Anthracene	40.1	5.00	µg/L	50.0		80.2	27-133	4.70	66	
Benzo(g,h,i)perylene	37.2	5.00	µg/L	50.0		74.4	10-219	3.75	97	
Di-n-butylphthalate	43.5	10.0	µg/L	50.0		87.1	10-120	1.91	47	
Diethylphthalate	38.9	10.0	µg/L	50.0		77.7	10-120	5.29	100	
Dimethylphthalate	39.3	10.0	µg/L	50.0		78.5	10-120	6.62	183	
Di-n-octylphthalate	42.0	10.0	µg/L	50.0		84.0	4-146	4.17	69	
Bis(2-Ethylhexyl)phthalate	42.5	10.0	µg/L	50.0		85.1	8-158	4.80	82	
Fluoranthene	42.2	5.00	µg/L	50.0		84.3	26-137	2.62	66	
Fluorene	38.9	5.00	µg/L	50.0		77.9	59-121	5.79	38	
Naphthalene	30.9	5.00	µg/L	50.0		61.8	21-133	10.4	65	
Phenanthrene	40.1	5.00	µg/L	50.0		80.2	54-120	4.65	39	
Pyrene	39.1	5.00	µg/L	50.0		78.2	52-120	3.07	49	
Surrogate: 2-Fluorophenol	*100*		µg/L	200		50.1	15-110			
Surrogate: Phenol-d6	*73.5*		µg/L	200		36.8	15-110			
Surrogate: Nitrobenzene-d5	*75.9*		µg/L	100		75.9	30-130			
Surrogate: 2-Fluorobiphenyl	*78.7*		µg/L	100		78.7	30-130			
Surrogate: 2,4,6-Tribromophenol	*167*		µg/L	200		83.5	15-110			
Surrogate: p-Terphenyl-d14	*87.1*		µg/L	100		87.1	30-130			
Matrix Spike (B262701-MS1)	**Source: 20G0943-01**			Prepared: 07/27/20 Analyzed: 07/28/20						
Acenaphthene	33.5	4.81	µg/L	48.1	ND	69.7	47-145			
Acenaphthylene	31.4	4.81	µg/L	48.1	ND	65.4	33-145			
Anthracene	36.4	4.81	µg/L	48.1	ND	75.7	27-133			
Benzo(g,h,i)perylene	31.7	4.81	µg/L	48.1	ND	66.0	10-219			
Di-n-butylphthalate	38.2	9.62	µg/L	48.1	ND	79.5	10-120			
Diethylphthalate	35.2	9.62	µg/L	48.1	ND	73.3	10-120			
Dimethylphthalate	36.7	9.62	µg/L	48.1	ND	76.3	10-120			
Di-n-octylphthalate	35.6	9.62	µg/L	48.1	ND	74.0	4-146			
Bis(2-Ethylhexyl)phthalate	35.9	9.62	µg/L	48.1	ND	74.8	8-158			
Fluoranthene	39.3	4.81	µg/L	48.1	ND	81.8	26-137			
Fluorene	35.6	4.81	µg/L	48.1	ND	74.0	59-121			
Naphthalene	28.8	4.81	µg/L	48.1	ND	59.8	21-133			
Phenanthrene	36.6	4.81	µg/L	48.1	ND	76.2	54-120			
Pyrene	34.7	4.81	µg/L	48.1	ND	72.1	52-120			
Surrogate: 2-Fluorophenol	*92.7*		µg/L	192		48.2	15-110			
Surrogate: Phenol-d6	*68.6*		µg/L	192		35.7	15-110			
Surrogate: Nitrobenzene-d5	*66.9*		µg/L	96.2		69.6	30-130			
Surrogate: 2-Fluorobiphenyl	*72.9*		µg/L	96.2		75.8	30-130			
Surrogate: 2,4,6-Tribromophenol	*158*		µg/L	192		81.9	15-110			
Surrogate: p-Terphenyl-d14	*78.0*		µg/L	96.2		81.1	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 B262701 - SW-846 3510C										
Matrix Spike Dup (B262701-MSD1)	**Source: 20G0943-01**			Prepared: 07/27/20 Analyzed: 07/28/20						
Acenaphthene	36.5	5.00	µg/L	50.0	ND	72.9	47-145	8.46	48	
Acenaphthylene	34.0	5.00	µg/L	50.0	ND	68.1	33-145	7.94	74	
Anthracene	39.3	5.00	µg/L	50.0	ND	78.6	27-133	7.60	66	
Benzo(g,h,i)perylene	33.0	5.00	µg/L	50.0	ND	66.0	10-219	3.95	97	
Di-n-butylphthalate	41.1	10.0	µg/L	50.0	ND	82.1	10-120	7.11	47	
Diethylphthalate	37.6	10.0	µg/L	50.0	ND	75.2	10-120	6.51	100	
Dimethylphthalate	38.6	10.0	µg/L	50.0	ND	77.2	10-120	5.15	183	
Di-n-octylphthalate	38.0	10.0	µg/L	50.0	ND	76.1	4-146	6.69	69	
Bis(2-Ethylhexyl)phthalate	38.8	10.0	µg/L	50.0	ND	77.7	8-158	7.75	82	
Fluoranthene	42.1	5.00	µg/L	50.0	ND	84.3	26-137	6.93	66	
Fluorene	38.2	5.00	µg/L	50.0	ND	76.4	59-121	7.06	38	
Naphthalene	30.8	5.00	µg/L	50.0	ND	61.7	21-133	7.05	65	
Phenanthrene	39.4	5.00	µg/L	50.0	ND	78.9	54-120	7.43	39	
Pyrene	37.0	5.00	µg/L	50.0	ND	74.0	52-120	6.44	49	
Surrogate: 2-Fluorophenol	*100*		µg/L	200		50.1	15-110			
Surrogate: Phenol-d6	*75.3*		µg/L	200		37.7	15-110			
Surrogate: Nitrobenzene-d5	*72.1*		µg/L	100		72.1	30-130			
Surrogate: 2-Fluorobiphenyl	*78.7*		µg/L	100		78.7	30-130			
Surrogate: 2,4,6-Tribromophenol	*170*		µg/L	200		85.0	15-110			
Surrogate: p-Terphenyl-d14	*83.1*		µg/L	100		83.1	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 B262730 - SW-846 3510C										
Blank (B262730-BLK1)				Prepared: 07/28/20 Analyzed: 07/30/20						
Aroclor-1016	ND	0.100	µg/L							
Aroclor-1016 [2C]	ND	0.100	µg/L							
Aroclor-1221	ND	0.100	µg/L							
Aroclor-1221 [2C]	ND	0.100	µg/L							
Aroclor-1232	ND	0.100	µg/L							
Aroclor-1232 [2C]	ND	0.100	µg/L							
Aroclor-1242	ND	0.100	µg/L							
Aroclor-1242 [2C]	ND	0.100	µg/L							
Aroclor-1248	ND	0.100	µg/L							
Aroclor-1248 [2C]	ND	0.100	µg/L							
Aroclor-1254	ND	0.100	µg/L							
Aroclor-1254 [2C]	ND	0.100	µg/L							
Aroclor-1260	ND	0.100	µg/L							
Aroclor-1260 [2C]	ND	0.100	µg/L							
Surrogate: Decachlorobiphenyl	*0.906*		µg/L	1.00		90.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.969*		µg/L	1.00		96.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.794*		µg/L	1.00		79.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.850*		µg/L	1.00		85.0	30-150			
LCS (B262730-BS1)				Prepared: 07/28/20 Analyzed: 07/30/20						
Aroclor-1016	0.415	0.200	µg/L	0.500		83.0	50-140			
Aroclor-1016 [2C]	0.454	0.200	µg/L	0.500		90.9	50-140			
Aroclor-1260	0.404	0.200	µg/L	0.500		80.9	8-140			
Aroclor-1260 [2C]	0.436	0.200	µg/L	0.500		87.2	8-140			
Surrogate: Decachlorobiphenyl	*1.75*		µg/L	2.00		87.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.86*		µg/L	2.00		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.57*		µg/L	2.00		78.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.70*		µg/L	2.00		84.8	30-150			
LCS Dup (B262730-BSD1)				Prepared: 07/28/20 Analyzed: 07/30/20						
Aroclor-1016	0.431	0.200	µg/L	0.500		86.3	50-140	3.86		
Aroclor-1016 [2C]	0.464	0.200	µg/L	0.500		92.8	50-140	2.15		
Aroclor-1260	0.416	0.200	µg/L	0.500		83.1	8-140	2.72		
Aroclor-1260 [2C]	0.450	0.200	µg/L	0.500		90.1	8-140	3.22		
Surrogate: Decachlorobiphenyl	*1.82*		µg/L	2.00		90.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.94*		µg/L	2.00		96.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.61*		µg/L	2.00		80.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.73*		µg/L	2.00		86.7	30-150			

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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 B262532 - EPA 245.1											
Blank (B262532-BLK1)				Prepared: 07/23/20 Analyzed: 07/24/20							
Mercury	ND	0.00010	mg/L								
LCS (B262532-BS1)				Prepared: 07/23/20 Analyzed: 07/24/20							
Mercury	0.00400	0.00010	mg/L	0.00400		99.9		85-115			
LCS Dup (B262532-BSD1)				Prepared: 07/23/20 Analyzed: 07/24/20							
Mercury	0.00417	0.00010	mg/L	0.00400		104		85-115	4.30	20	
Batch B262612 - EPA 200.7											
Blank (B262612-BLK1)				Prepared: 07/24/20 Analyzed: 07/27/20							
Iron	ND	0.050	mg/L								
Hardness	ND	1.4	mg/L								
LCS (B262612-BS1)				Prepared: 07/24/20 Analyzed: 07/27/20							
Iron	4.47	0.050	mg/L	4.00		112		85-115			
Hardness	29	1.4	mg/L	26.4		111		85-115			
LCS Dup (B262612-BSD1)				Prepared: 07/24/20 Analyzed: 07/27/20							
Iron	4.56	0.050	mg/L	4.00		114		85-115	1.98	20	
Hardness	30	1.4	mg/L	26.4		113		85-115	1.86	20	
Duplicate (B262612-DUP1)	**Source: 20G0943-01**			Prepared: 07/24/20 Analyzed: 07/28/20							
Iron	ND	0.25	mg/L		ND				NC	20	DL-03
Hardness	6600	14	mg/L		5600				16.0		
Matrix Spike (B262612-MS1)	**Source: 20G0943-01**			Prepared: 07/24/20 Analyzed: 07/28/20							
Iron	4.30	0.25	mg/L	4.00	ND	107		70-130			
Hardness	7000	14	mg/L	26.4	5600	**5360**	*	70-130			MS-19
Batch B262614 - EPA 200.8											
Blank (B262614-BLK1)				Prepared: 07/24/20 Analyzed: 07/27/20							
Antimony	ND	1.0	µg/L								
Arsenic	ND	0.80	µg/L								
Cadmium	ND	0.20	µg/L								
Chromium	ND	1.0	µg/L								
Copper	ND	1.0	µg/L								
Lead	ND	0.50	µg/L								
Nickel	ND	5.0	µg/L								
Selenium	ND	5.0	µg/L								
Silver	ND	0.20	µg/L								
Zinc	ND	10	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 B262614 - EPA 200.8										
LCS (B262614-BS1)				Prepared: 07/24/20 Analyzed: 07/27/20						
Antimony	496	10	µg/L	500		99.1	85-115			
Arsenic	512	8.0	µg/L	500		102	85-115			
Cadmium	519	2.0	µg/L	500		104	85-115			
Chromium	518	10	µg/L	500		104	85-115			
Copper	1050	10	µg/L	1000		105	85-115			
Lead	521	5.0	µg/L	500		104	85-115			
Nickel	559	50	µg/L	500		112	85-115			
Selenium	510	50	µg/L	500		102	85-115			
Silver	486	2.0	µg/L	500		97.2	85-115			
Zinc	1070	100	µg/L	1000		107	85-115			
LCS Dup (B262614-BSD1)				Prepared: 07/24/20 Analyzed: 07/27/20						
Antimony	515	10	µg/L	500		103	85-115	3.83	20	
Arsenic	534	8.0	µg/L	500		107	85-115	4.13	20	
Cadmium	537	2.0	µg/L	500		107	85-115	3.40	20	
Chromium	551	10	µg/L	500		110	85-115	6.07	20	
Copper	1070	10	µg/L	1000		107	85-115	1.94	20	
Lead	543	5.0	µg/L	500		109	85-115	4.14	20	
Nickel	572	50	µg/L	500		114	85-115	2.31	20	
Selenium	524	50	µg/L	500		105	85-115	2.61	20	
Silver	496	2.0	µg/L	500		99.2	85-115	2.08	20	
Zinc	1130	100	µg/L	1000		113	85-115	5.29	20	
Duplicate (B262614-DUP1)	**Source: 20G0943-01**			Prepared: 07/24/20 Analyzed: 07/27/20						
Antimony	ND	5.0	µg/L		ND			NC	20	DL-15
Arsenic	18.9	4.0	µg/L		18.6			1.56	20	
Cadmium	ND	1.0	µg/L		ND			NC	20	DL-15
Chromium	ND	5.0	µg/L		6.16			NC	20	
Copper	127	5.0	µg/L		128			0.790	20	
Lead	ND	2.5	µg/L		ND			NC	20	
Nickel	ND	25	µg/L		ND			NC	20	DL-15
Selenium	171	25	µg/L		188			9.03	20	
Silver	ND	1.0	µg/L		ND			NC	20	DL-15
Zinc	ND	50	µg/L		ND			NC	20	DL-15
Matrix Spike (B262614-MS1)	**Source: 20G0943-01**			Prepared: 07/24/20 Analyzed: 07/27/20						
Antimony	568	10	µg/L	500	ND	114	70-130			
Arsenic	637	8.0	µg/L	500	18.6	124	70-130			
Cadmium	537	2.0	µg/L	500	ND	107	70-130			
Chromium	527	10	µg/L	500	ND	105	70-130			
Copper	1230	10	µg/L	1000	128	110	70-130			
Lead	543	5.0	µg/L	500	1.80	108	70-130			
Nickel	636	50	µg/L	500	13.2	124	70-130			
Selenium	671	50	µg/L	500	188	96.6	70-130			
Silver	485	2.0	µg/L	500	ND	97.0	70-130			

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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 B262475 - SM21-22 4500 CL G										
Blank (B262475-BLK1)				Prepared & Analyzed: 07/22/20						
Chlorine, Residual	ND	0.020	mg/L							
LCS (B262475-BS1)				Prepared & Analyzed: 07/22/20						
Chlorine, Residual	0.61	0.020	mg/L	0.614		100	85.3-130			
LCS Dup (B262475-BSD1)				Prepared & Analyzed: 07/22/20						
Chlorine, Residual	0.63	0.020	mg/L	0.614		103	85.3-130	2.96	13.6	
Duplicate (B262475-DUP1)		**Source: 20G0943-01**		Prepared & Analyzed: 07/22/20						
Chlorine, Residual	0.027	0.020	mg/L		ND			NC	29.4	H-03, R-03
Matrix Spike (B262475-MS1)		**Source: 20G0943-01**		Prepared & Analyzed: 07/22/20						
Chlorine, Residual	0.89	0.020	mg/L	1.00	0.019	87.2	10-169			H-03
Batch B262482 - SM21-22 3500 Cr B										
Blank (B262482-BLK1)				Prepared & Analyzed: 07/22/20						
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B262482-BS1)				Prepared & Analyzed: 07/22/20						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100		102	90-115			
LCS Dup (B262482-BSD1)				Prepared & Analyzed: 07/22/20						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100		103	90-115	1.15	11	
Batch B262500 - EPA 1664B										
Blank (B262500-BLK1)				Prepared & Analyzed: 07/23/20						
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L							
LCS (B262500-BS1)				Prepared & Analyzed: 07/23/20						
Silica Gel Treated HEM (SGT-HEM)	7.1		mg/L	10.0		71.0	64-132			
Batch B262501 - EPA 420.1										
Blank (B262501-BLK1)				Prepared: 07/23/20 Analyzed: 07/27/20						
Phenol	ND	0.050	mg/L							
LCS (B262501-BS1)				Prepared: 07/23/20 Analyzed: 07/27/20						
Phenol	0.48	0.050	mg/L	0.500		95.0	75.6-130			

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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 B262501 - EPA 420.1										
LCS Dup (B262501-BSD1)				Prepared: 07/23/20 Analyzed: 07/27/20						
Phenol	0.50	0.050	mg/L	0.500		101	75.6-130	6.06	10.3	
Matrix Spike (B262501-MS1)		**Source: 20G0943-01**		Prepared: 07/23/20 Analyzed: 07/27/20						
Phenol	0.50	0.050	mg/L	0.500	ND	99.5	34.1-149			
Batch B262505 - SM21-22 2540D										
Blank (B262505-BLK1)				Prepared & Analyzed: 07/23/20						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B262505-BS1)				Prepared & Analyzed: 07/23/20						
Total Suspended Solids	198	10	mg/L	200		99.0	57.4-123			
Batch B262666 - EPA 300.0										
Blank (B262666-BLK1)				Prepared & Analyzed: 07/26/20						
Chloride	ND	1.0	mg/L							
LCS (B262666-BS1)				Prepared & Analyzed: 07/26/20						
Chloride	10		mg/L	10.0		103	90-110			
LCS Dup (B262666-BSD1)				Prepared & Analyzed: 07/26/20						
Chloride	10		mg/L	10.0		103	90-110	0.266	20	
Batch B262786 - EPA 350.1										
Blank (B262786-BLK1)				Prepared: 07/27/20 Analyzed: 07/28/20						
Ammonia as N	ND	0.10	mg/L							
LCS (B262786-BS1)				Prepared: 07/27/20 Analyzed: 07/28/20						
Ammonia as N	2.0	0.10	mg/L	2.00		102	90-110			
LCS Dup (B262786-BSD1)				Prepared: 07/27/20 Analyzed: 07/28/20						
Ammonia as N	2.0	0.10	mg/L	2.00		101	90-110	0.787	20	

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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 B263185 - EPA 504 water										
Blank (B263185-BLK1)				Prepared & Analyzed: 07/31/20						
1,2-Dibromoethane (EDB)	ND	0.021	µg/L							
Surrogate: 1,3-Dibromopropane	*1.03*		µg/L	1.04		98.9	70-130			
LCS (B263185-BS1)				Prepared & Analyzed: 07/31/20						
1,2-Dibromoethane (EDB)	0.207	0.021	µg/L	0.257		80.4	70-130			
Surrogate: 1,3-Dibromopropane	*1.03*		µg/L	1.03		99.7	70-130			
LCS Dup (B263185-BSD1)				Prepared & Analyzed: 07/31/20						
1,2-Dibromoethane (EDB)	0.206	0.020	µg/L	0.255		80.8	70-130	0.177		
Surrogate: 1,3-Dibromopropane	*1.10*		µg/L	1.02		108	70-130			
Matrix Spike (B263185-MS1)	**Source: 20G0943-01**			Prepared & Analyzed: 07/31/20						
1,2-Dibromoethane (EDB)	0.219	0.019	µg/L	0.242	ND	90.4	65-135			
Surrogate: 1,3-Dibromopropane	*1.06*		µg/L	0.967		109	70-130			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

608.3

LCS

Lab Sample ID: B262730-BS1 Date(s) Analyzed: 07/30/2020 07/30/2020

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.415	
	2	0.000	0.000	0.000	0.454	7.8
Aroclor-1260	1	0.000	0.000	0.000	0.404	
	2	0.000	0.000	0.000	0.436	8.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

608.3

LCS Dup

Lab Sample ID: B262730-BSD1 Date(s) Analyzed: 07/30/2020 07/30/2020

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.431	
	2	0.000	0.000	0.000	0.464	7.6
Aroclor-1260	1	0.000	0.000	0.000	0.416	
	2	0.000	0.000	0.000	0.450	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 504.1

LCS

Lab Sample ID: B263185-BS1 Date(s) Analyzed: 07/31/2020 07/31/2020

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
1,2-Dibromoethane (EDB)	1	3.705	0.000	0.000	0.207	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 504.1

LCS Dup

Lab Sample ID: B263185-BSD1 Date(s) Analyzed: 07/31/2020 07/31/2020

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
1,2-Dibromoethane (EDB)	1	3.706	0.000	0.000	0.206	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 504.1

Matrix Spike

Lab Sample ID: B263185-MS1 Date(s) Analyzed: 07/31/2020 07/31/2020

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
1,2-Dibromoethane (EDB)	1	3.711	0.000	0.000	0.219	

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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.
H-03	Sample received after recommended holding time was exceeded.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
R-03	Duplicate RPD outside of control limits. Reduced precision is expected for values near the reporting limit.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
Z-01	SM 4500 CL G test had a calibration point outside of acceptable back-calculated recovery. Re-analysis yielded similar non-conformance.

con-test® ANALYTICAL LABORATORY
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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
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
Tetrachloroethylene	CT,NY,MA,NH,RI,NC,ME,VA

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
624.1 in Water	
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	
Iron	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
Cadmium	CT,MA,NH,NY,RI,NC,ME,VA
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Copper	CT,MA,NH,NY,RI,NC,ME,VA
Lead	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
Zinc	CT,MA,NH,NY,RI,NC,ME,VA

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
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 350.1 in Water	
Ammonia as N	NC,NY,MA,NH,RI,ME,VA
EPA 420.1 in Water	
Phenol	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 3500 Cr B in Water	
Hexavalent Chromium	NY,CT,NH,RI,ME,VA,NC
SM21-22 4500 CL G in Water	
Chlorine, Residual	CT,MA,RI,ME
SM21-22 4500 CN E in Water	
Cyanide	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST 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	06/30/2021
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2021
FL	Florida Department of Health	E871027 NELAP	06/30/2021
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2021
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2021
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2021

2060943

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 2_06262019

Page 1 of 1

Company Name: Wilcox & Barton
Address: #18 Commons Drive, Londonderry NH
Phone: 401-258-2615
Project Name: Back Basket
Project Location: Penhallow Street
Project Number: MCNB6001
Project Manager: Barrett Smith
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: Barrett Smith / Cody Whelan

Requested Turnaround Time
7-Day ☐ 10-Day ☐
PFAS 10-Day (std) ☐ Due Date:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Data Delivery
Format: PDF X EXCEL X
Other:
CLP Like Data Pkg Required: ☐
Email To: bsmith@wilcoxandbarton.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	B Ammonia by SM4500B/D	F TSS - SM2540-D	X CN- SM4500-CN	H VOCs by 624, 524	I SVOCs by 625/SIM	I PCBs by 608	H Oil/Grease - 1664	I Chloride	I TRC SM4500	N Total Metals 2005	I Cr(VI) 218.6
1	SW-1	7/21/2020	15:00	Grab	SW	U	6	9	5			X	X	X	X	X	X	X	X	X	X	X

[2] Preservation Code

Courier Use Only
Total Number Of:
VIALS
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Contest is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

	Date/Time:
Relinquished by: (signature)	7/22/2020 16:03
Received by: (signature)	7/22/20 1605
Relinquished by: (signature)	7/22/20 2035
Received by: (signature)	7/23/20 0805
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments:
Metals: 8, As, Cd, Cr, Cu, Fe, Hg, Pb, Ni, Se, Ag, Zn
Phenol by 420.1, EDB by 504.1
5 Day TAT

Detection Limit Requirements
MA
CT
Other: NPDES RGP

Special Requirements
☐ MA MCP Required
☐ MCP Certification Form Required
☐ CT RCP Required
☐ RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☒ Non Soxhlet

Comments:

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client W+B

Received By [signature] Date 7/22/20 Time 2035

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 1 Actual Temp - 4.7

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? n/a Were Samples Tampered with? n/a

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T F

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? katie

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid T Base T

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	10	1 Liter Plastic	2	16 oz Amb.	
HCL-	10	500 mL Amb.	1	500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	3	4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-	3	SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

Past hold for TRC and Cr(VI).

APPENDIX C

Supplemental Information

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 20, 2020
Consultation Code: 05E1NE00-2020-SLI-3332
Event Code: 05E1NE00-2020-E-10153
Project Name: New Building in Downtown Portsmouth

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

To Whom It May Concern:

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

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

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

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

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

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

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

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

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

Attachment(s):

- Official Species List

Official Species List

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

This species list is provided by:

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

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

New Building in Downtown Portsmouth

2. Description

The following description was provided for the project 'New Building in Downtown Portsmouth':

> The subject property is half an acre in size and consists entirely of a parking lot with associated drives, walkways, and perimeter landscaping with some shade trees. Construction activities involve the demolition of the parking lot and erection of a four-story building with two levels of subsurface parking facilities, which will cover most of the parcel. Dewatering is necessary for construction of the building foundation, and due to existing groundwater contamination, a RGP with a NPDES NOI is required. Construction will begin in the fall of this year.

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/43.07707769710956N70.75656473288569W

Determination Key Result

This non-Federal Action may affect the northern long-eared bat; however, any take of this species that may occur incidental to this Action is not prohibited under the final 4(d) rule at 50 CFR §17.40(o).

Determination Key Description: Northern Long-eared Bat 4(d) Rule
This key was last updated in IPaC on **May 15, 2017**. Keys are subject to periodic revision.

This key is intended for actions that may affect the threatened northern long-eared bat.

The purpose of the key for non-Federal actions is to assist determinations as to whether proposed actions are excepted from take prohibitions under the northern long-eared bat 4(d) rule.

If a non-Federal action may cause prohibited take of northern long-eared bats or other ESA-listed animal species, we recommend that you coordinate with the Service.

Endangered Species Act Species

There is a total of 1 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.

Mammals

NAME	STATUS
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Critical habitats

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

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

IPaC Record Locator: 958-22629026 July 20, 2020

Subject: Consistency letter for the 'New Building in Downtown Portsmouth' project indicating that any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Dear Russel Rucker:

The U.S. Fish and Wildlife Service (Service) received on July 20, 2020 your effects determination for the 'New Building in Downtown Portsmouth' (the Action) using the northern long-eared bat (*Myotis septentrionalis*) key within the Information for Planning and Consultation (IPaC) system. You indicated that no Federal agencies are involved in funding or authorizing this Action. This IPaC key assists users in determining whether a non-Federal action may cause "take"[1] of the northern long-eared bat that is prohibited under the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

Please report to our office any changes to the information about the Action that you entered into IPaC, the results of any bat surveys conducted in the Action area, and any dead, injured, or sick northern long-eared bats that are found during Action implementation.

If your Action proceeds as described and no additional information about the Action's effects on species protected under the ESA becomes available, no further coordination with the Service is required with respect to the northern long-eared bat.

[1]Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct [ESA Section 3(19)].

Determination Key Result

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Qualification Interview

1. Is the action authorized, funded, or being carried out by a Federal agency?

   No

2. Will your activity purposefully **Take** northern long-eared bats?

   No

3. [Semantic] Is the project action area located wholly outside the White-nose Syndrome Zone?

   Automatically answered
   No

4. Have you contacted the appropriate agency to determine if your project is near a known hibernaculum or maternity roost tree?

   Location information for northern long-eared bat hibernacula is generally kept in state Natural Heritage Inventory databases – the availability of this data varies state-by-state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited. A web page with links to state Natural Heritage Inventory databases and other sources of information on the locations of northern long-eared bat roost trees and hibernacula is available at www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html.

   Yes

5. Will the action affect a cave or mine where northern long-eared bats are known to hibernate (i.e., hibernaculum) or could it alter the entrance or the environment (physical or other alteration) of a hibernaculum?

   No

6. Will the action involve Tree Removal?

   Yes

7. Will the action only remove hazardous trees for the protection of human life or property?

   No

8. Will the action remove trees within 0.25 miles of a known northern long-eared bat hibernaculum at any time of year?

   No

9. Will the action remove a known occupied northern long-eared bat maternity roost tree or any trees within 150 feet of a known occupied maternity roost tree from June 1 through July 31?

   No

Project Questionnaire

If the project includes forest conversion, report the appropriate acreages below. Otherwise, type '0' in questions 1-3.

1. Estimated total acres of forest conversion:

0

2. If known, estimated acres of forest conversion from April 1 to October 31

0

3. If known, estimated acres of forest conversion from June 1 to July 31

0

If the project includes timber harvest, report the appropriate acreages below. Otherwise, type '0' in questions 4-6.

4. Estimated total acres of timber harvest

0

5. If known, estimated acres of timber harvest from April 1 to October 31

0

6. If known, estimated acres of timber harvest from June 1 to July 31

0

If the project includes prescribed fire, report the appropriate acreages below. Otherwise, type '0' in questions 7-9.

7. Estimated total acres of prescribed fire

0

8. If known, estimated acres of prescribed fire from April 1 to October 31

0

9. If known, estimated acres of prescribed fire from June 1 to July 31

0

If the project includes new wind turbines, report the megawatts of wind capacity below. Otherwise, type '0' in question 10.

10. What is the estimated wind capacity (in megawatts) of the new turbine(s)?
0

New Hampshire Natural Heritage Bureau
NHB DataCheck Results Letter

To: Russel Rucker, Wilcox & Barton, Inc.
2 Capital Plaza
Suite 305
Concord, NH 03301

From: NH Natural Heritage Bureau

Date: 7/27/2020 (valid for one year from this date)

Re: Review by NH Natural Heritage Bureau of request submitted 7/17/2020

NHB File ID: NHB20-2119 **Applicant:** Mark A. McNabb

Location: Portsmouth
Tax Maps: Map 107, Lot 27

Project Description: The subject property consists entirely of a parking lot with associated drives, walkways, and perimeter landscaping. Construction activities involve the demolition of the parking lot and erecting a 4-story building with 2 levels of subsurface parking facilities. Dewatering is necessary for construction of building excavation and due to existing groundwater contamination a RGP with NPDES NOI is required.

The NH Natural Heritage database has been checked by staff of the NH Natural Heritage Bureau and/or the NH Nongame and Endangered Species Program for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government.

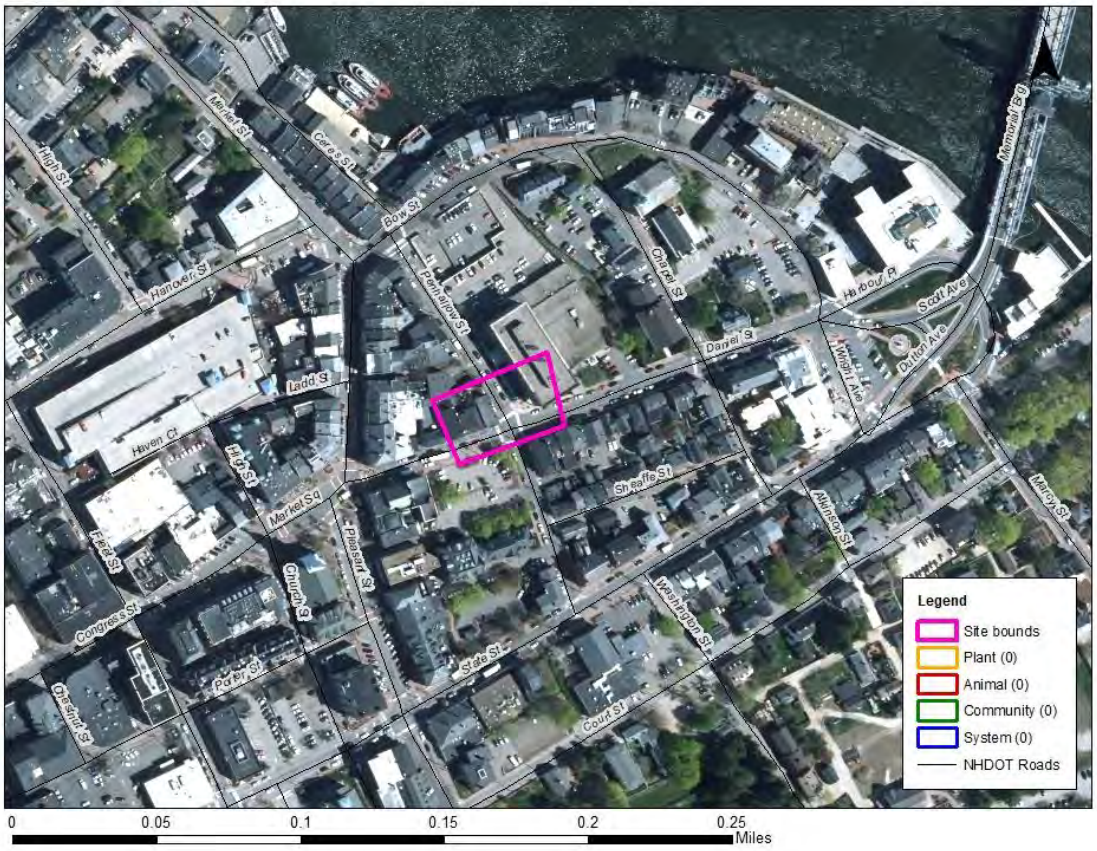
It was determined that, although there was a NHB record (e.g., rare wildlife, plant, and/or natural community) present in the vicinity, we do not expect that it will be impacted by the proposed project. This determination was made based on the project information submitted via the NHB Datacheck Tool on 7/17/2020, and cannot be used for any other project.

Department of Natural and Cultural Resources
Division of Forests and Lands
(603) 271-2214 fax: 271-6488

DNCR/NHB
172 Pembroke Rd.
Concord, NH 03301

MAP OF PROJECT BOUNDARIES FOR: **NHB20-2119**

NHB20-2119



Department of Natural and Cultural Resources
Division of Forests and Lands
(603) 271-2214 fax: 271-6488

DNCR/NHB
172 Pembroke Rd.
Concord, NH 03301

Please mail the completed form and required material to:

New Hampshire Division of Historical Resources
State Historic Preservation Office
Attention: Review & Compliance
19 Pillsbury Street, Concord, NH 03301-3570

RECEIVED
JUL 21 2020

DHR Use Only	
R&C #	11969
Log In Date	7/21/20
Response Date	8/11/20
Sent Date	8/11/20

Request for Project Review by the New Hampshire Division of Historical Resources

☒ This is a new submittal
☐ This is additional information relating to DHR Review & Compliance (R&C) #:

GENERAL PROJECT INFORMATION

Project Title New Building in Downtown Portsmouth

Project Location 60 Penhallow Street

City/Town Portsmouth Tax Map 107 Lot # 27

NH State Plane - Feet Geographic Coordinates: Easting 1227413 Northing 211650✓
(See RPR Instructions and R&C FAQs for guidance.)

Lead Federal Agency and Contact *(if applicable)* US EPA
(Agency providing funds, licenses, or permits)
Permit Type and Permit or Job Reference # RGP

State Agency and Contact *(if applicable)*

Permit Type and Permit or Job Reference #

APPLICANT INFORMATION

Applicant Name McNabb Properties, Ltd.

Mailing Address 30 Penhallow St., Suite 300 Phone Number 6034270725

City Portsmouth State NH Zip 03801 Email house@mcnabbgroup.com

CONTACT PERSON TO RECEIVE RESPONSE

Name/Company Russel Rucker

Mailing Address PO Box 1630 Phone Number 6035730232

City Derry State NH Zip 03038 Email rrucker@wilcoxandbarton.com

This form is updated periodically. Please download the current form at www.nh.gov/nhdhr/review. *Please refer to the Request for Project Review Instructions for direction on completing this form.* Submit one copy of this project review form for each project for which review is requested. Include a self-addressed stamped envelope to expedite review response. Project submissions will not be accepted via facsimile or e-mail. This form is required. Review request form must be complete for review to begin. Incomplete forms will be sent back to the applicant without comment. Please be aware that this form may only initiate consultation. For some projects, additional information will be needed to complete the Section 106 review. All items and supporting documentation submitted with a review request, including photographs and publications, will be retained by the DHR as part of its review records. Items to be kept confidential should be clearly identified. For questions regarding the DHR review process and the DHR's role in it, please visit our website at: www.nh.gov/nhdhr/review or contact the R&C Specialist at marika.labash@dncr.nh.gov or 603.271.3558.

PROJECTS CANNOT BE PROCESSED WITHOUT THIS INFORMATION 11969

Project Boundaries and Description

- ☒ Attach the Project Mapping ***using EMMIT or relevant portion of a 7.5' USGS Map.*** *(See RPR Instructions and R&C FAQs for guidance.)*
- ☒ Attach a detailed narrative description of the proposed project.
- ☒ Attach a site plan. The site plan should include the project boundaries and areas of proposed excavation.
- ☒ Attach photos of the project area (overview of project location and area adjacent to project location, and specific areas of proposed impacts and disturbances.) *(Informative photo captions are requested.)*
- ☒ A DHR records search must be conducted to identify properties within or adjacent to the project area. Provide records search results via EMMIT or in **Table 1**. *(Blank table forms are available on the DHR website.)*
  EMMIT or in-house records search conducted on 7/17/2020.

Architecture

Are there any buildings, structures (bridges, walls, culverts, etc.) objects, districts or landscapes within the project area? ☐ Yes ☒ No
If no, skip to Archaeology section. If yes, submit all of the following information:

Approximate age(s):

- ☐ Photographs of ***each*** resource or streetscape located within the project area, with captions, along with a mapped photo key. (Digital photographs are accepted. All photographs must be clear, crisp and focused.)
- ☐ If the project involves rehabilitation, demolition, additions, or alterations to existing buildings or structures, provide additional photographs showing detailed project work locations. (i.e. Detail photo of windows if window replacement is proposed.)

Archaeology

Does the proposed undertaking involve ground-disturbing activity? ☒ Yes ☐ No
If yes, submit all of the following information:

- ☒ Description of current and previous land use and disturbances.
- ☒ Available information concerning known or suspected archaeological resources within the project area (such as cellar holes, wells, foundations, dams, etc.)

Please note that for many projects an architectural and/or archaeological survey or other additional information may be needed to complete the Section 106 process.

DHR Comment/Finding Recommendation *This Space for Division of Historical Resources Use Only*

☐ Insufficient information to initiate review. ☐ Additional information is needed in order to complete review.

☐ No Potential to cause Effects ☐ No Historic Properties Affected ☑ No Adverse Effect ☐ Adverse Effect

Comments: This finding is contingent on the Applicant coordinating with and receiving approval from the Portsmouth HDC. Please forward HDC correspondence to the DHR for our files when received.

If plans change or resources are discovered in the course of this project, you must contact the Division of Historical Resources as required by federal law and regulation.

Authorized Signature: Nadine Miller, DSHPO Date: 8/11/2020

CITY OF PORTSMOUTH

Planning Department
1 Junkins Avenue
Portsmouth, New
Hampshire 03801
(603) 610-7216

HISTORIC DISTRICT COMMISSION

November 18, 2019

Dagny Taggart, LLC
30 Penhallow, Suite 300 E
Portsmouth, NH 03801

RE: **0 (53) Daniel Street (LU-19-228)**

Dear Owner:

The Historic District Commission, at its regularly scheduled meeting of **November 13, 2019**, considered your application for the construction of a new free-standing (4-story, 50,000 ± s.f.) commercial structure as per plans on file in the Planning Department. Said property is shown on Assessor Map 107, Lot 27 and lies within the Character District 4 (CD4) and Historic District Commission. As a result of said consideration, the Commission voted to **grant** The Certificate of Approval with the following stipulations:

1. The size of the diamond tiles on the horizontal bands shall increase from 1' to 2'.
2. The railings from behind the 3rd floor cornices shall be aligned to the back of the cornice.
3. The (2) courtyard entry doors shall be recessed with a freestanding column between them.
4. The front main entrance glass door shall fill the entire opening between the timbers that surround them.
5. The vertical timbers on the rounded corners shall be further extended, above the roof line.
6. The Pella widows with concealed screens shall be used.
7. The cheek wall siding shall be horizontal.
8. Items (#1-6) shall be submitted for Administrative Approval.

Findings of Fact

A. Purpose and Intent

The proposed application meets the following objective(s) of the Historic District (as provided in Section 10.631.20 of the Zoning Ordinance):

- Promote the education, pleasure, & welfare of the District to the city residents and visitors.

B. Review Criteria

The proposed application also meets the following review criteria of the Historic District (as provided in Section 10.635.70 of the Zoning Ordinance):

- Compatibility of innovative technologies with surrounding properties.

The Commission's decision may be appealed up to thirty (30) days after the vote. Any action taken by the applicant pursuant to the Commission's decision during this appeal period shall be at the applicant's risk. Please contact the Planning Department for more details about the appeals process.

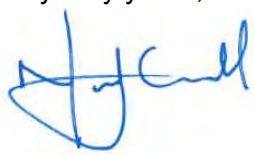
Approvals may also be required from other City Committees or Boards. Once all required approvals have been received, applicant is responsible for applying for and securing a building permit from the Inspection Department prior to starting any project work.

This approval shall expire unless a building permit is issued within a period of one (1) year from the date granted by the Historic District Commission unless an extension is granted by the Commission in accordance with Section 10.636.70 of the Zoning Ordinance.

Please note that any changes or modifications to this application require review and approval from the Commission prior to implementation and additional fees may apply.

The minutes and audio recording of this meeting are available by contacting the Planning Department.

Very truly yours,



Nicholas J. Cracknell, AICP, Principal Planner
for Vincent Lombardi, Chairman of the Historic District Commission

cc: Robert Marsilia, Chief Building Inspector
Rosann Maurice-Lentz, City Assessor

Tracy Kozak, AIA, JSA, Inc.
Mark A. McNabb, Applicant