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

A. General site information:

<table>
<tr><td rowspan="3">1. Name of site:
7-Eleven, Inc.
Store # 24433</td><td colspan="3">Site address: 361 Amherst St.
Street:</td></tr>
<tr><td colspan="2">City: Nashua</td><td>State: NH Zip: 03063</td></tr>
<tr><td colspan="3"></td></tr>
<tr><td rowspan="4">2. Site owner
7-Eleven, Inc.

Owner is (check one): ☐ Federal ☐ State/Tribal ■ Private
☐ Other; if so, specify:</td><td colspan="3">Contact Person: Jennifer Dart</td></tr>
<tr><td colspan="2">Telephone: 972-828-6592</td><td>Email: jennifer.dart@7-11.com</td></tr>
<tr><td colspan="3">Mailing address: P.O. Box 711 - Loc. 0148
Street:</td></tr>
<tr><td colspan="2">City: Dallas</td><td>State: TX Zip: 75221</td></tr>
<tr><td rowspan="4">3. Site operator, if different than owner
AECOM</td><td colspan="3">Contact Person: Luis Ferreira</td></tr>
<tr><td colspan="2">Telephone: 401-854-2806</td><td>Email: luis.ferreira@aecom.com</td></tr>
<tr><td colspan="3">Mailing address:
Street: 10 Orms Street, Suite 405</td></tr>
<tr><td colspan="2">City: Providence</td><td>State: RI Zip: 02904</td></tr>
<tr><td>4. NPDES permit number assigned by EPA:
NA

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

B. Receiving water information:

1. Name of receiving water(s):	Waterbody identification of receiving water(s):	Classification of receiving water(s):
Colerain Brook		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. NA

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.	0.00048 cfs
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: 2/19/2021

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

C. Source water information:

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

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

2. Source water contaminants: TSS, Iron	
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): The discharge would be to an on-site catch basin which ultimately drains into Colerain Brook.	Outfall location(s): (Latitude, Longitude) (42.7835317, -71.5039429)
Discharges enter the receiving water(s) via (check any that apply): ☐ Direct discharge to the receiving water ■ Indirect discharge, if so, specify: Through a treatment system to an on-site catch basin ☐ A private storm sewer system ☐ A municipal storm sewer system If the discharge enters the receiving water via a private or municipal storm sewer system: Has notification been provided to the owner of this system? (check one): ☐ Yes ☐ No Has the operator has received permission from the owner to use such system for discharges? (check one): ☐ Yes ☐ No, if so, explain, with an estimated timeframe for obtaining permission: Has the operator attached a summary of any additional requirements the owner of this system has specified? (check one): ☐ Yes ☐ No	
Provide the expected start and end dates of discharge(s) (month/year): Start: April 8, 2021 End: May 31, 2021 Indicate if the discharge is expected to occur over a duration of: ■ less than 12 months ☐ 12 months or more ☐ is an emergency discharge	
Has the operator attached a site plan in accordance with the instructions in D, above? (check one): ■ Yes ☐ No	

<table>
<tr><td>2. Activity Category: (check all that apply)</td><td colspan="2">3. Contamination Type Category: (check all that apply)</td></tr>
<tr><td rowspan="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	SIM4500	150	392	392	Report mg/L	---
Chloride		✔	1	SIM44300	50000	1800000	1800000	Report µg/l	---
Total Residual Chlorine	✔		1	SIM4500	20	<20	<20	0.2 mg/L	11 µg/L
Total Suspended Solids		✔	1	SIM2540D	5000	150000	150000	30 mg/L	---
Antimony	✔		1	EPA3005	4	<4	<4	206 µg/L	4.3 mg/L
Arsenic		✔	1	EPA3005	1	3	3	104 µg/L	10 µg/L
Cadmium		✔	1	EPA3005	0.2	0.2	0.2	10.2 µg/L	0.5485µg/L
Chromium III	✔		1	Calculatio	10	<10	<10	323 µg/L	188.2
Chromium VI	✔		1	EPA3005	10	<10	<10	323 µg/L	11.4 µg/L
Copper		✔	1	EPA3005	1	4	4	242 µg/L	21.1
Iron		✔	1	EPA3200E	50	3090	3090	5,000 µg/L	1000 µg/L
Lead		✔	1	EPA3005	1	1.5	1.5	160 µg/L	10.71
Mercury	✔		1	EPA245.1	0.2	<0.2	<0.2	0.739 µg/L	0.91 µg/L
Nickel		✔	1	EPA3005	2	2.9	2.9	1,450 µg/L	116.9
Selenium	✔		1	EPA3005	5	<5	<5	235.8 µg/L	5 µg/L
Silver	✔		1	EPA3005	0.4	<0.4	<0.4	35.1 µg/L	19.5
Zinc		✔	1	EPA3005	10	11	11	420 µg/L	268.7µg/L
Cyanide	✔		1	SIM4500	5	<5	<5	178 mg/L	5.2 µg/L
B. Non-Halogenated VOCs									
Total BTEX	✔		1	EPA624.1	4	<4	<4	100 µg/L	---
Benzene	✔		1	EPA624.1	1	<1	<1	5.0 µg/L	---
1,4 Dioxane	✔		1	EPA624.1	50	<50	<50	200 µg/L	---
Acetone	✔		1	EPA624.1	5	<5	<5	7.97 mg/L	---
Phenol	✔		1	SIM4420.1	30	<30	<30	1,080 µg/L	300 µg/L

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
C. Halogenated VOCs									
Carbon Tetrachloride	✔		1	EPA624.1	1	<1	<1	4.4 µg/L	---
1,2 Dichlorobenzene	✔		1	EPA624.1	5	<5	<5	600 µg/L	---
1,3 Dichlorobenzene	✔		1	EPA624.1	5	<5	<5	320 µg/L	---
1,4 Dichlorobenzene	✔		1	EPA624.1	5	<5	<5	5.0 µg/L	---
Total dichlorobenzene	✔		1	EPA624.1	15	<15	<15	763 µg/L in NH	---
1,1 Dichloroethane	✔		1	EPA624.1	1.5	<1.5	<1.5	70 µg/L	---
1,2 Dichloroethane	✔		1	EPA624.1	1.5	<1.5	<1.5	5.0 µg/L	---
1,1 Dichloroethylene	✔		1	EPA624.1	1	<1	<1	3.2 µg/L	---
Ethylene Dibromide	✔		1	EPA504.1	0.01	<0.01	<0.01	0.05 µg/L	---
Methylene Chloride	✔		1	EPA624.1	1	<1	<1	4.6 µg/L	---
1,1,1 Trichloroethane	✔		1	EPA624E	2	<2	<2	200 µg/L	---
1,1,2 Trichloroethane	✔		1	EPA624.1	1.5	<1.5	<1.5	5.0 µg/L	---
Trichloroethylene	✔		1	EPA624.1	1	<1	<1	5.0 µg/L	---
Tetrachloroethylene	✔		1	EPA624.1	1	<1	<1	5.0 µg/L	----
cis-1,2 Dichloroethylene	✔		1	EPA624.1	1	<1	<1	70 µg/L	---
Vinyl Chloride	✔		1	EPA624.1	1	<1	<1	2.0 µg/L	---
D. Non-Halogenated SVOCs									
Total Phthalates	✔		1	EPA625.1	27.2	<27.2	<27.2	190 µg/L	3.0 ug/L
Diethylhexyl phthalate	✔		1	EPA625.1	5	<5	<5	101 µg/L	2.2 ug/L
Total Group I PAHs	✔		1	EPA625.1	0.7	<0.7	<0.7	1.0 µg/L	---
Benzo(a)anthracene	✔		1	EPA625.1	0.1	<0.1	<0.1	As Total PAHs	0.0038 ug/L
Benzo(a)pyrene	✔		1	EPA625.1	0.1	<0.1	<0.1		0.0038 ug/L
Benzo(b)fluoranthene	✔		1	EPA625.1	0.1	<0.1	<0.1		0.0038 ug/L
Benzo(k)fluoranthene	✔		1	EPA625.1	0.1	<0.1	<0.1		0.0038 ug/L
Chrysene	✔		1	EPA625.1	0.1	<0.1	<0.1		0.0038 ug/L
Dibenzo(a,h)anthracene	✔		1	EPA625.1	0.1	<0.1	<0.1		0.0038 ug/L
Indeno(1,2,3-cd)pyrene	✔		1	EPA625.1	0.1	<0.1	<0.1		0.0038 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
Total Group II PAHs		✔	1	EPA625.1	0.9	0.91	0.91	100 µg/L	---
Naphthalene		✔	1	EPA625.1	0.1	0.11	0.11	20 µg/L	---
E. Halogenated SVOCs									
Total PCBs	✔		1	EPA608.3	1.7	<1.7	<1.7	0.000064 µg/L	---
Pentachlorophenol	✔		1	EPA608.3	1	<1	<1	1.0 µg/L	---
F. Fuels Parameters									
Total Petroleum Hydrocarbons	✔		1	1664A	4000	<4000	<4000	5.0 mg/L	---
Ethanol	✔		1	1671A	20000	<20000	<20000	Report mg/L	---
Methyl-tert-Butyl Ether	✔		1	8060C	10	<10	<10	70 µg/L	---
tert-Butyl Alcohol	✔		1	8260C	1000	<1000	<1000	120 µg/L in MA 40 µg/L in NH	---
tert-Amyl Methyl Ether	✔		1	8260C	20	<20	<20	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:									
pH	✔		1			7.32	7.32		
Temperature	✔		1			9.5	9.5		

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:

Influent frac tank and weir tank, followed by bag filters, and LGAC vessels before a final holding tank prior to discharge point

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

Groundwater will be pumped from the excavation into a 20,000-gallon frac tank followed by a weir tank to precipitate out the solids, then pumped through a a series of bag filtration followed by liquid granular activated carbon vessels. Water will be pumped into a final holding tank for sampling prior to final discharge to an onsite catch basin.

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: weir tank and LGAC vessels

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: LGAC vessels which will be design for max flow of 50 gpm Is use of a flow meter feasible? (check one): ■ Yes ☐ No, if so, provide justification:	
Provide the proposed maximum effluent flow in gpm.	Max 50 gpm
Provide the average effluent flow in gpm.	Avg 40 gpm
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:
NA

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

Please see Attachment 1 through Attachment 6.

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: Upon initiation of the new discharge, BMPP will be developed and implemented.
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: Luis Ferreira * As agent for 7-Eleven See attached sheets Date: March 11, 2021
Print Name and Title: Luis Ferreira, Project Manager

EXHIBIT D

LIMITED AUTHORIZATION

KNOW ALL MEN BY THESE PRESENTS:

That 7-ELEVEN, INC. ("7-Eleven"), a Texas corporation, acting by and through Darren Rebelez, Vice President, does hereby nominate, constitute and appoint AECOM TECHNICAL SERVICES, INC., a Delaware corporation, as Limited Agent ("Agent") of 7-Eleven, for purposes of executing and delivering instruments and documents as more particularly described below, and does hereby grant, delegate and invest said Agent with power and authority to execute and deliver for, in the name of, and on behalf of 7-Eleven, and in connection with that certain Second Amended and Restated Agreement by and between 7-Eleven and Agent dated as of January 1, 2014 (as heretofore or hereafter amended, the "Agreement"), the instruments and documents listed in Attachment I hereto.

Agent may exercise the power and authority herein granted, delegated and invested, in any particular and appropriate transaction or matter, as an agent of 7-Eleven. Any instruments and documents executed and delivered by Agent under this Limited Authorization shall be acts of 7-Eleven and may be relied upon by third parties dealing with 7-Eleven, such acts being hereby ratified and confirmed by virtue hereof. Agent shall deliver all instruments and documents executed and delivered by Agent under this Limited Authorization to 7-Eleven promptly following such execution and delivery.

Any and all acts of Agent hereunder shall comply with all applicable federal, state and local laws, regulations, rules and ordinances and with all applicable orders of any courts of competent jurisdiction.

This Limited Authorization shall expire upon the expiration or earlier termination of the Agreement, except as otherwise provided therein, or may be terminated at any time for any reason by 7-Eleven.

APPROVED AND EXECUTED this 20 day of March, 2014, to be effective as of January 1, 2014.

ATTEST:

Assistant Secretary

7-ELEVEN, INC.

By:

Name: DARREN REBELEZ

Title: EVP & COO

STATE OF TEXAS §
§
COUNTY OF DALLAS §

BEFORE ME, the undersigned, a Notary Public in and for the County and State aforesaid, on this day personally appeared Dennis McBeth and David J. Colletti, Sr Eric, Vice President and Assistant Secretary, respectively, of 7-Eleven, Inc., known to me to be the persons whose names are subscribed to the foregoing instrument, and acknowledged to me that the same was the act of the said corporation, a Texas corporation, and that they executed the same as the act of such corporation for the purposes and consideration therein expressed and in the capacities therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 20 day of March, 2014.

Karen Pennell
NOTARY PUBLIC

My Commission Expires:

5-1-2017

Karen Pennell
Notary Public, State of Texas
My Comm. Expires 05/01/2017

ATTACHMENT I

[7-ELEVEN MAY REVISE THIS ATTACHMENT I IN ITS SOLE DISCRETION, INCLUDING, WITHOUT LIMITATION, TO ADD OR DELETE DOCUMENTATION SUBJECT TO THIS LIMITED AUTHORIZATION.]

Such permits, reports, applications and other documentation issued by any federal, state or local governmental authority and such other standard form documentation provided by 7-Eleven or third parties to be completed in connection with Agent's performance of environmental consulting services pursuant to the Agreement, including, without limitation, the following:

a. Waste Manifests;

b. Waste Characterization Forms;

c. Bills of Lading;

d. Waste Disposal Agreements;

e. Registration and Notification Forms for underground storage tanks;

f. Incident Reports;

g. Discharge Notification Forms;

h. Tank Closure Reports;

i. Permit Applications, Notices and other documents relating to the investigation, monitoring or remediation work performed under the Agreement;

j. Reports to state environmental agencies regarding investigation, monitoring or remediation work performed under the Agreement; and

k. Applications to any state underground storage tank insurance or reimbursement fund;

Provided, however, that in each case, the foregoing authorization shall not extend to any permits, reports, applications or other documentation that contain: (i) any language, the effect of which is to require 7-Eleven to indemnify, defend and/or hold harmless any third party for any act or omission of any kind; or (ii) any statement of any kind, including, without limitation, any representation or warranty, which Agent does not personally know to be true and correct, including, without limitation, any representation concerning the legal existence or financial condition of 7-Eleven.

ATTACHMENT 1

Section B.6 of NOI Application

After having a discussion with the town to find the proper location of the discharge, a series of communications conducted between AECOM and NHDES. Haley Franz, from the Wastewater Engineering Bureau, confirmed that 7Q10 is 0.00048 cfs and DF is 1 for the receiving water of this discharge. Please see attached maps for the location of the on-site discharge and receiving water. A copy of the e-mail communication with NHDES is also attached for reference.

Fallahpour, Noushin

From: Franz, Hayley <Hayley.G.Franz@des.nh.gov>
Sent: Friday, February 19, 2021 2:17 PM
To: Fallahpour, Noushin
Subject: [EXTERNAL] RE: Waterbody classification

Hi Noush,

Thank you for providing the stormwater system map, that was exactly what I needed!

The 7Q10 is 0.00048 cfs and the DF is 1.

Please let me know if you need any additional information.

Thanks!
Hayley

Hayley Franz, P.E.
Permits Engineer
Wastewater Engineering Bureau, Water Division
New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95, Concord, NH 03302
Tel: (603) 271-0671

From: Fallahpour, Noushin <Noushin.Fallahpour@aecom.com>
Sent: Friday, February 19, 2021 8:54 AM
To: Franz, Hayley <Hayley.G.Franz@des.nh.gov>
Subject: RE: Waterbody classification

Good morning Hayley,

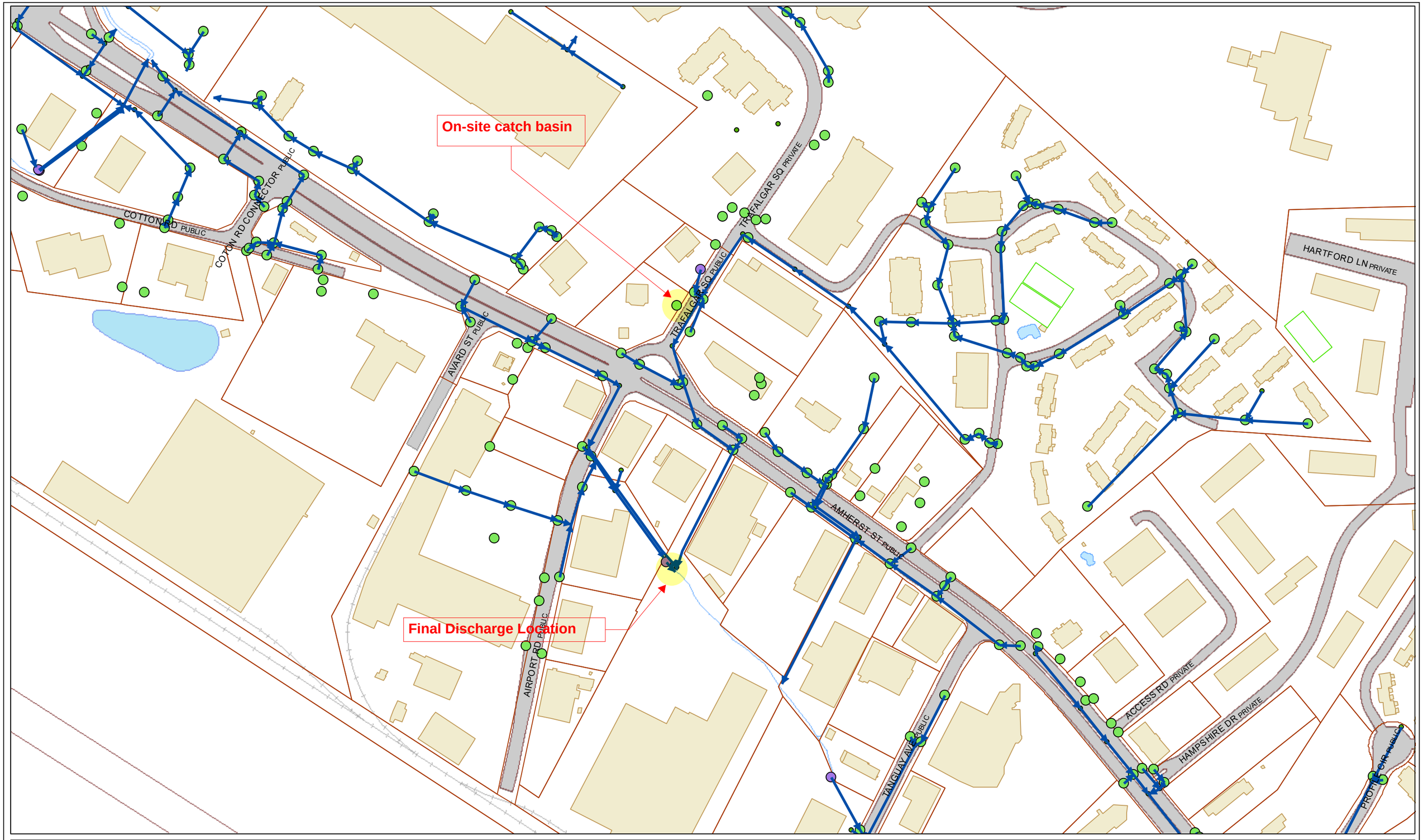
Happy Friday!
As our deadline is approaching, I am just writing to check in and see if I did send you all the required information? Please let me know if something is missing so I can collect that info for you to proceed forward.

Thank you very much for the time you take out of your busy schedule to help me. I truly appreciate it.

Best,
Noush

Noushin Fallahpour, **Ph.D, PE**
Environmental Engineering
D 1-978-905-2238 C 1-857-253-9872
noushin.fallahpour@aecom.com

AECOM
250 Apollo Drive,



Nashua Storm water drain map

ATTACHMENT 2

Section B.7 of NOI Application

Please see attached for the receiving water sampling analysis.

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-181605-1
Client Project/Site: 7-11 No 24433 (NH)

For:
AECOM
10 Orms Street
Suite 405
Providence, Rhode Island 02904

Attn: Mr. Luis A. Ferreira

Authorized for release by:
3/8/2021 5:19:54 PM

Lauren Evans, Project Manager I
(615)301-5034
Lauren.Evans@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: AECOM
Job ID: 480-181605-1
Project/Site: 7-11 No 24433 (NH)

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: AECOM
Project/Site: 7-11 No 24433 (NH)

Job ID: 480-181605-1

Job ID: 480-181605-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-181605-1

Comments
No additional comments.

Receipt
The samples were received on 3/3/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 7196A: The matrix spike (MS) recoveries for analytical batch 480-571221 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. Sample re-run at 2x dilution to confirm.

Methods 9040C: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: RECEIVING WATER (480-181605-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AECOM
Project/Site: 7-11 No 24433 (NH)

Job ID: 480-181605-1

Client Sample ID: EFFLUENT — Lab Sample ID: 480-181605-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hardness as calcium carbonate	260		4.00		mg/L	1		SM 2340C	Total/NA

Client Sample ID: RECEIVING WATER — Lab Sample ID: 480-181605-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0477		0.0100		mg/L	1		6010C	Total Recoverable
Ammonia	0.0800		0.0200		mg/L	1		350.1	Total/NA
pH	6.99	HF	0.100		SU	1		9040C	Total/NA
Temperature	20.7	HF	0.00100		Degrees C	1		9040C	Total/NA
Hardness as calcium carbonate	132		4.00		mg/L	1		SM 2340C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AECOM
Project/Site: 7-11 No 24433 (NH)

Job ID: 480-181605-1

Client Sample ID: EFFLUENT
Date Collected: 03/02/21 12:15
Date Received: 03/03/21 10:30

Lab Sample ID: 480-181605-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	260		4.00		mg/L			03/08/21 15:10	1

Client Sample Results

Client: AECOM
Project/Site: 7-11 No 24433 (NH)

Job ID: 480-181605-1

Client Sample ID: RECEIVING WATER

Date Collected: 03/02/21 13:00
Date Received: 03/03/21 10:30

Lab Sample ID: 480-181605-2

Matrix: Water

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0200		mg/L		03/04/21 14:08	03/05/21 15:23	1
Arsenic	ND		0.0150		mg/L		03/04/21 14:08	03/05/21 15:23	1
Cadmium	ND		0.00200		mg/L		03/04/21 14:08	03/05/21 15:23	1
Chromium	ND		0.00400		mg/L		03/04/21 14:08	03/05/21 15:23	1
Copper	ND		0.0100		mg/L		03/04/21 14:08	03/05/21 15:23	1
Lead	ND		0.0100		mg/L		03/04/21 14:08	03/05/21 15:23	1
Nickel	ND		0.0100		mg/L		03/04/21 14:08	03/05/21 15:23	1
Selenium	ND		0.0250		mg/L		03/04/21 14:08	03/05/21 15:23	1
Silver	ND		0.00600		mg/L		03/04/21 14:08	03/05/21 15:23	1
Zinc	**0.0477**		0.0100		mg/L		03/04/21 14:08	03/05/21 15:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		03/04/21 13:34	03/04/21 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**0.0800**		0.0200		mg/L			03/05/21 06:30	1
Chromium, hexavalent	ND	F1	0.0100		mg/L			03/03/21 12:00	1
Hardness as calcium carbonate	**132**		4.00		mg/L			03/08/21 15:10	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.99**	**HF**	0.100		SU			03/04/21 15:40	1
Temperature	**20.7**	**HF**	0.00100		Degrees C			03/04/21 15:40	1
Total Suspended Solids	ND		4000		ug/L			03/03/21 13:04	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-571378/1-A
Matrix: Water
Analysis Batch: 571627

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 571378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0200		mg/L		03/04/21 14:08	03/05/21 14:46	1
Arsenic	ND		0.0150		mg/L		03/04/21 14:08	03/05/21 14:46	1
Cadmium	ND		0.00200		mg/L		03/04/21 14:08	03/05/21 14:46	1
Chromium	ND		0.00400		mg/L		03/04/21 14:08	03/05/21 14:46	1
Copper	ND		0.0100		mg/L		03/04/21 14:08	03/05/21 14:46	1
Lead	ND		0.0100		mg/L		03/04/21 14:08	03/05/21 14:46	1
Nickel	ND		0.0100		mg/L		03/04/21 14:08	03/05/21 14:46	1
Selenium	ND		0.0250		mg/L		03/04/21 14:08	03/05/21 14:46	1
Silver	ND		0.00600		mg/L		03/04/21 14:08	03/05/21 14:46	1
Zinc	ND		0.0100		mg/L		03/04/21 14:08	03/05/21 14:46	1

Lab Sample ID: LCS 480-571378/2-A
Matrix: Water
Analysis Batch: 571627

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 571378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.200	0.2017		mg/L		101	80 - 120
Arsenic	0.200	0.2027		mg/L		101	80 - 120
Cadmium	0.200	0.2002		mg/L		100	80 - 120
Chromium	0.200	0.1990		mg/L		100	80 - 120
Copper	0.200	0.1975		mg/L		99	80 - 120
Lead	0.200	0.1962		mg/L		98	80 - 120
Nickel	0.200	0.1918		mg/L		96	80 - 120
Selenium	0.200	0.2012		mg/L		101	80 - 120
Silver	0.0500	0.04873		mg/L		97	80 - 120
Zinc	0.200	0.1942		mg/L		97	80 - 120

Lab Sample ID: 480-181605-A-1-C MS
Matrix: Water
Analysis Batch: 571627

Client Sample ID: 480-181605-A-1-C MS
Prep Type: Total Recoverable
Prep Batch: 571378

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		0.200	0.2091		mg/L		105	75 - 125
Arsenic	ND		0.200	0.2240		mg/L		112	75 - 125
Cadmium	ND		0.200	0.2101		mg/L		105	75 - 125
Chromium	ND		0.200	0.2059		mg/L		101	75 - 125
Copper	ND		0.200	0.2045		mg/L		100	75 - 125
Lead	ND		0.200	0.2114		mg/L		104	75 - 125
Nickel	ND		0.200	0.2089		mg/L		103	75 - 125
Selenium	ND		0.200	0.2132		mg/L		107	75 - 125
Silver	ND		0.0500	0.05132		mg/L		103	75 - 125
Zinc	0.0125		0.200	0.2176		mg/L		103	75 - 125

Lab Sample ID: 480-181605-A-1-D MSD
Matrix: Water
Analysis Batch: 571627

Client Sample ID: 480-181605-A-1-D MSD
Prep Type: Total Recoverable
Prep Batch: 571378

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		0.200	0.2093		mg/L		105	75 - 125	0	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-181605-A-1-D MSD
Matrix: Water
Analysis Batch: 571627

Client Sample ID: 480-181605-A-1-D MSD
Prep Type: Total Recoverable
Prep Batch: 571378

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		0.200	0.2227		mg/L		111	75 - 125	1	20
Cadmium	ND		0.200	0.2110		mg/L		106	75 - 125	0	20
Chromium	ND		0.200	0.2069		mg/L		102	75 - 125	0	20
Copper	ND		0.200	0.2081		mg/L		102	75 - 125	2	20
Lead	ND		0.200	0.2137		mg/L		105	75 - 125	1	20
Nickel	ND		0.200	0.2106		mg/L		104	75 - 125	1	20
Selenium	ND		0.200	0.2123		mg/L		106	75 - 125	0	20
Silver	ND		0.0500	0.05332		mg/L		107	75 - 125	4	20
Zinc	0.0125		0.200	0.2185		mg/L		103	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-571352/1-A
Matrix: Water
Analysis Batch: 571416

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571352

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		03/04/21 13:34	03/04/21 16:26	1

Lab Sample ID: LCS 480-571352/2-A
Matrix: Water
Analysis Batch: 571416

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571352

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	6.67	6.800		ug/L		102	80 - 120

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-571438/3
Matrix: Water
Analysis Batch: 571438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.0200		mg/L			03/05/21 06:26	1

Lab Sample ID: LCS 480-571438/4
Matrix: Water
Analysis Batch: 571438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.080		mg/L		108	90 - 110
Ammonia as NH3	1.22	1.314		mg/L		108	90 - 110

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-571221/3
Matrix: Water
Analysis Batch: 571221

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.0100		mg/L			03/03/21 12:00	1

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: LCS 480-571221/4
Matrix: Water
Analysis Batch: 571221

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hexavalent			0.0500	0.04984		mg/L		100	85 - 115		

Lab Sample ID: 480-181605-2 MS
Matrix: Water
Analysis Batch: 571221

Client Sample ID: RECEIVING WATER
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hexavalent	ND	F1	0.0500	0.03501	F1	mg/L		70	85 - 115		

Lab Sample ID: 480-181605-2 DU
Matrix: Water
Analysis Batch: 571221

Client Sample ID: RECEIVING WATER
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium, hexavalent	ND	F1	ND		mg/L				NC	20

Method: 9040C - pH

Lab Sample ID: LCS 480-571589/1
Matrix: Water
Analysis Batch: 571589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.031		SU		100	99 - 101		

Lab Sample ID: 480-181605-2 DU
Matrix: Water
Analysis Batch: 571589

Client Sample ID: RECEIVING WATER
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.99	HF		7.015		SU				0.4	5
Temperature	20.7	HF		20.80		Degrees C				0.5	10

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 480-571741/3
Matrix: Water
Analysis Batch: 571741

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		2.00		mg/L			03/08/21 15:10	1

Lab Sample ID: LCS 480-571741/4
Matrix: Water
Analysis Batch: 571741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hardness as calcium carbonate			183	188.0		mg/L		103	90 - 110		

Method: SM 2340C - Hardness, Total (mg/l as CaC03) (Continued)

Lab Sample ID: 480-181605-1 MS
Matrix: Water
Analysis Batch: 571741

Client Sample ID: EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	260		200	464.0		mg/L		102	74 - 130

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-571198/1
Matrix: Water
Analysis Batch: 571198

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1000		ug/L			03/03/21 13:04	1

Lab Sample ID: LCS 480-571198/2
Matrix: Water
Analysis Batch: 571198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	3010000	3004000		ug/L		100	88 - 110

Metals

Prep Batch: 571352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-2	RECEIVING WATER	Total/NA	Water	7470A	
MB 480-571352/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-571352/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 571378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-2	RECEIVING WATER	Total Recoverable	Water	3005A	
MB 480-571378/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 480-571378/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
480-181605-A-1-C MS	480-181605-A-1-C MS	Total Recoverable	Water	3005A	
480-181605-A-1-D MSD	480-181605-A-1-D MSD	Total Recoverable	Water	3005A	

Analysis Batch: 571416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-2	RECEIVING WATER	Total/NA	Water	7470A	571352
MB 480-571352/1-A	Method Blank	Total/NA	Water	7470A	571352
LCS 480-571352/2-A	Lab Control Sample	Total/NA	Water	7470A	571352

Analysis Batch: 571627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-2	RECEIVING WATER	Total Recoverable	Water	6010C	571378
MB 480-571378/1-A	Method Blank	Total Recoverable	Water	6010C	571378
LCS 480-571378/2-A	Lab Control Sample	Total Recoverable	Water	6010C	571378
480-181605-A-1-C MS	480-181605-A-1-C MS	Total Recoverable	Water	6010C	571378
480-181605-A-1-D MSD	480-181605-A-1-D MSD	Total Recoverable	Water	6010C	571378

General Chemistry

Analysis Batch: 571198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-2	RECEIVING WATER	Total/NA	Water	SM 2540D	
MB 480-571198/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-571198/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 571221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-2	RECEIVING WATER	Total/NA	Water	7196A	
MB 480-571221/3	Method Blank	Total/NA	Water	7196A	
LCS 480-571221/4	Lab Control Sample	Total/NA	Water	7196A	
480-181605-2 MS	RECEIVING WATER	Total/NA	Water	7196A	
480-181605-2 DU	RECEIVING WATER	Total/NA	Water	7196A	

Analysis Batch: 571438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-2	RECEIVING WATER	Total/NA	Water	350.1	
MB 480-571438/3	Method Blank	Total/NA	Water	350.1	
LCS 480-571438/4	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 571589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-2	RECEIVING WATER	Total/NA	Water	9040C	

General Chemistry (Continued)

Analysis Batch: 571589 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-571589/1	Lab Control Sample	Total/NA	Water	9040C	
480-181605-2 DU	RECEIVING WATER	Total/NA	Water	9040C	

Analysis Batch: 571741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-1	EFFLUENT	Total/NA	Water	SM 2340C	
480-181605-2	RECEIVING WATER	Total/NA	Water	SM 2340C	
MB 480-571741/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-571741/4	Lab Control Sample	Total/NA	Water	SM 2340C	
480-181605-1 MS	EFFLUENT	Total/NA	Water	SM 2340C	

Lab Chronicle

Client: AECOM
Project/Site: 7-11 No 24433 (NH)

Job ID: 480-181605-1

Client Sample ID: EFFLUENT
Date Collected: 03/02/21 12:15
Date Received: 03/03/21 10:30

Lab Sample ID: 480-181605-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2340C		1	571741	03/08/21 15:10	MJB	TAL BUF

Client Sample ID: RECEIVING WATER
Date Collected: 03/02/21 13:00
Date Received: 03/03/21 10:30

Lab Sample ID: 480-181605-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			571378	03/04/21 14:08	KMP	TAL BUF
Total Recoverable	Analysis	6010C		1	571627	03/05/21 15:23	AMH	TAL BUF
Total/NA	Prep	7470A			571352	03/04/21 13:34	BMB	TAL BUF
Total/NA	Analysis	7470A		1	571416	03/04/21 16:30	BMB	TAL BUF
Total/NA	Analysis	350.1		1	571438	03/05/21 06:30	CLT	TAL BUF
Total/NA	Analysis	7196A		1	571221	03/03/21 12:00	KEB	TAL BUF
Total/NA	Analysis	9040C		1	571589	03/04/21 15:40	KEB	TAL BUF
Total/NA	Analysis	SM 2340C		1	571741	03/08/21 15:10	MJB	TAL BUF
Total/NA	Analysis	SM 2540D		1	571198	03/03/21 13:04	CSS	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: AECOM
Job ID: 480-181605-1
Project/Site: 7-11 No 24433 (NH)

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Hampshire	NELAP	2337	11-19-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Water	Mercury
9040C		Water	pH
9040C		Water	Temperature

Method Summary

Client: AECOM
Project/Site: 7-11 No 24433 (NH)

Job ID: 480-181605-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
7196A	Chromium, Hexavalent	SW846	TAL BUF
9040C	pH	SW846	TAL BUF
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: AECOM
Project/Site: 7-11 No 24433 (NH)

Job ID: 480-181605-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-181605-1	EFFLUENT	Water	03/02/21 12:15	03/03/21 10:30	
480-181605-2	RECEIVING WATER	Water	03/02/21 13:00	03/03/21 10:30	

eurofins | Environment Testing New England

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

☐ Standard TAT - 5 business days

☑ Rush TAT - Date Needed: 3 days

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: Luis Ferreira
AECOM
10 Orms St.,
Providence, RI 02904
Telephone #: 4012745685
Project Mgr: Luis Ferreira

Invoice To: Same
P.O No.: Quote #:

Project No: 60617854
Site Name: 7-Eleven Store #24433
Location: Nashua State: NH
Sampler(s): Tony Wang-Li

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= 12=

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= X2= X3=

G= Grab C=Composite

List Preservative Code below:

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: pH and hexavalent Chromium	Ammonia (Nitrogen-Ammonia)	TSS	Hardness	*Total recoverable metals				Check if chlorinated
										F	3	F	4	4				
	Effluent	3/2/2021	1215	G	GW				1				x					☐
	Receiving water	3/2/2021	1300	G	SW				5	x	x	x	x	x				☐
																		☐
																		☐
																		☐
																		☐
																		☐
																		☐
																		☐
	* For total metals please																	☐
	refer to the e-mail communications																	☐

480-181605 Chain of Custody

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☑ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☑ Other: Attached via email
State-specific reporting standards:

#1 2.9

Relinquished by:	Received by:	Date:	Time:	Temp °C
		3/2/21	1345	Observed 1.4
		3/2/21	1523	Correction Factor +1
	Cwallace	3/3/21	1030	Corrected 2.4
				IR ID # 6

☐ EDD format:
☑ E-mail to: Luis.ferreira@aecom.com
Noushin.fallahpour@aecom.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Sample shipping address: 11 Almgren Drive • Agawam, MA 01001 • 413-789-9018 • www.EurofinsUS.com/Spectrum

Rev. Sep 2015

3/8/2021

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-181605-1

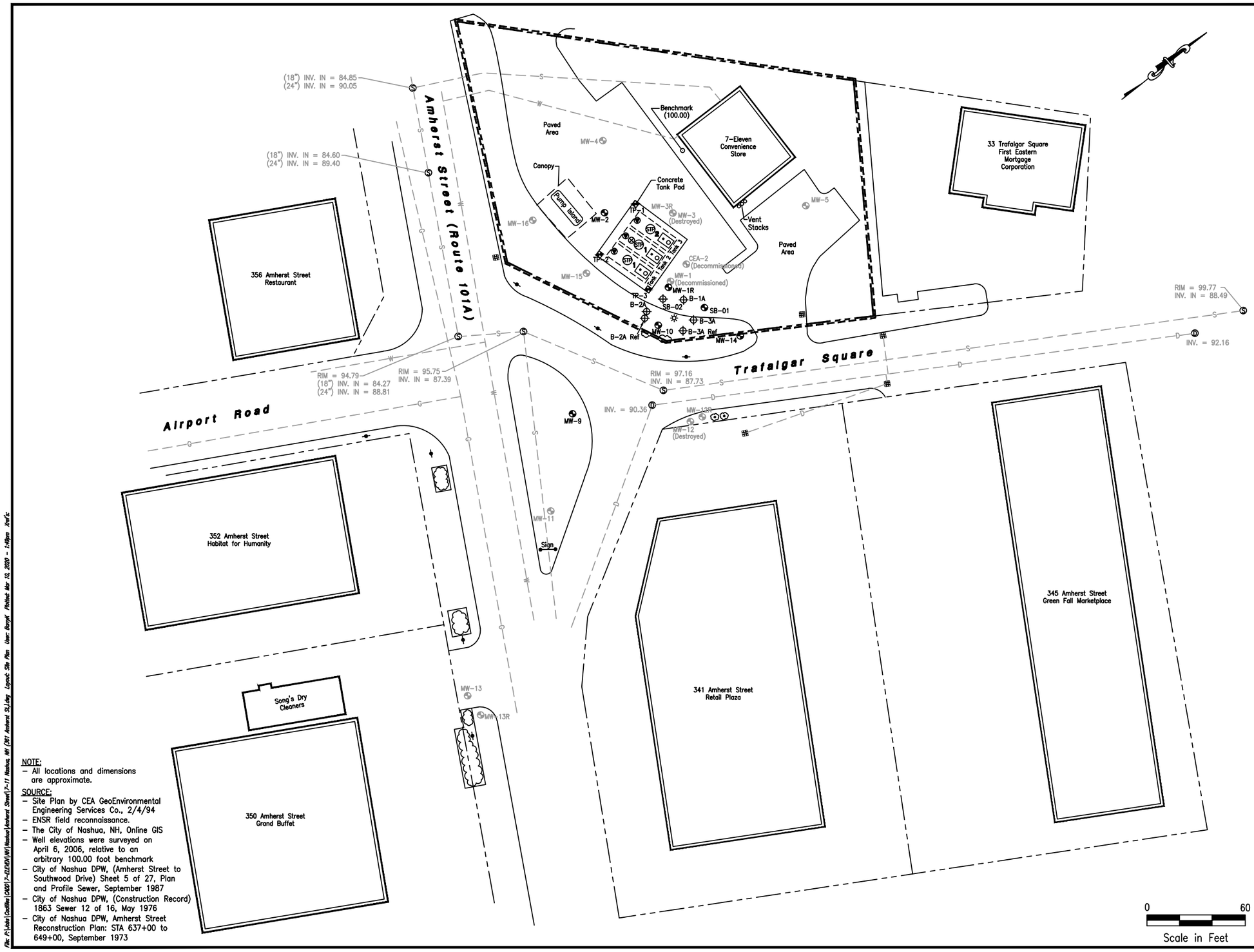
Login Number: 181605
List Number: 1
Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT 3

Section E.4 of NOI Application



NOTE:
- All locations and dimensions are approximate.

SOURCE:
- Site Plan by CEA GeoEnvironmental Engineering Services Co., 2/4/94
- ENSR field reconnaissance.
- The City of Nashua, NH, Online GIS
- Well elevations were surveyed on April 6, 2006, relative to an arbitrary 100.00 foot benchmark
- City of Nashua DPW, (Amherst Street to Southwood Drive) Sheet 5 of 27, Plan and Profile Sewer, September 1987
- City of Nashua DPW, (Construction Record) 1863 Sewer 12 of 16, May 1976
- City of Nashua DPW, Amherst Street Reconstruction Plan: STA 637+00 to 649+00, September 1973

LEGEND:
- Site Property Boundary
- Property Boundary
- Underground Sewer Line (9–10' BSG)
- Undeground Storm Drain Line
- Undeground Water Line (5' BSG)
- Undeground Gas Line
- Ref — Refusal at Soil Boring Location
- B–1A — Soil Boring
- Tank Pad Well
- Catch Basin
- 1 — Regular Grade
- 2 — Premium Grade
- STP — Submersible Turbine Pump Manway & Line Leak Detector
- Syphon Line
- Fill
- Vapor Bar
- Electronic Interstice Space Monitor & ATG Probe Product Line
- Light
- Bushes
- Trees
- Sewer Manhole
- Drain Manhole
- Utility Pole
- MW–9 — Monitoring Well

CLIENT

7-Eleven, Inc.
P.O. Box 711
Dallas, TX 75221

PROJECT TITLE

7-Eleven Store #24433
361 Amherst Street
Nashua, New Hampshire

FIGURE TITLE

Site Plan

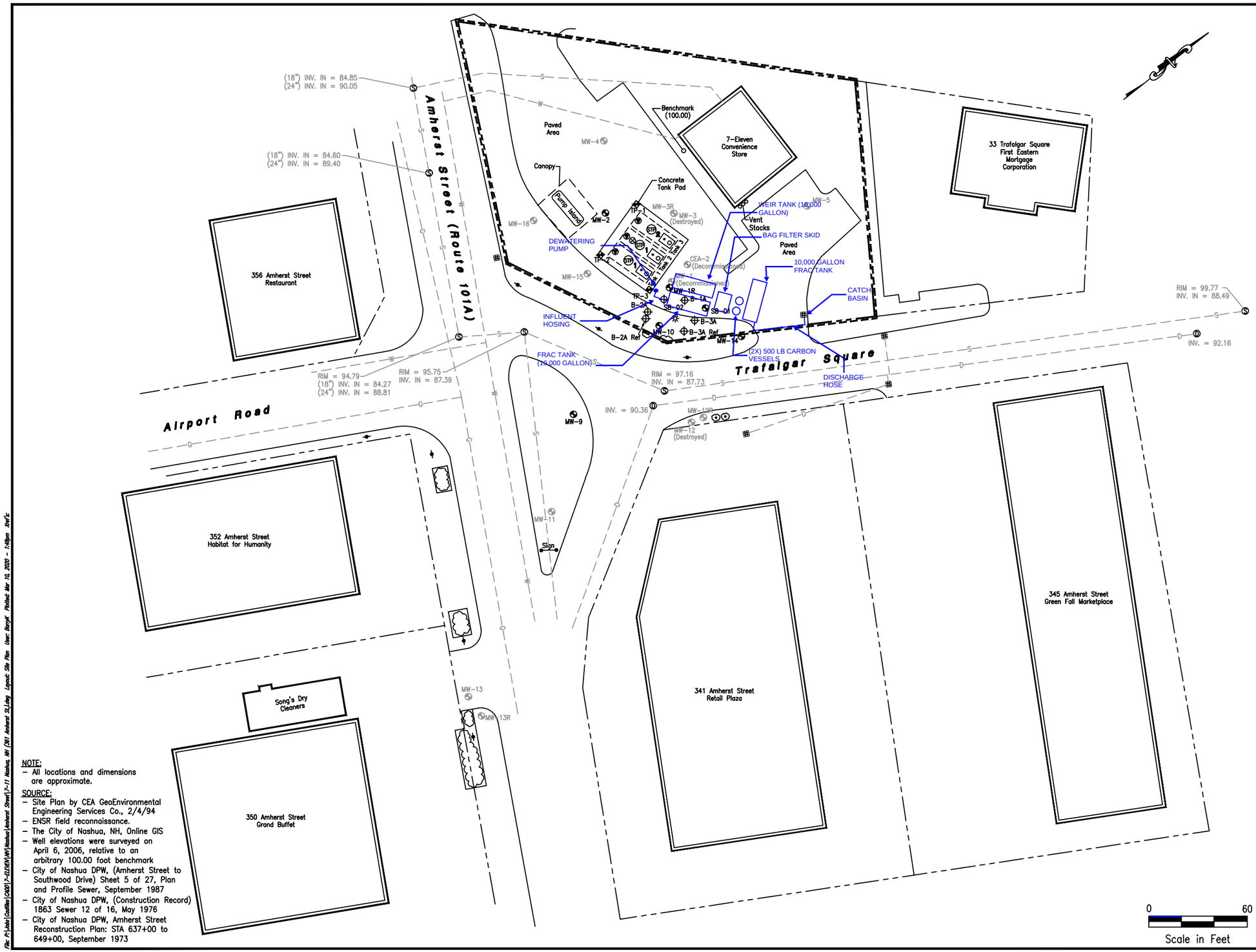
APPROVED BY	REVIEWED BY
M. Redmond	H. Glow
DRAWN BY	SCALE
K.Barry	1" = 60'
JOB NUMBER	DATE
60617854	March 2020

AECOM Environment
250 Apollo Drive
Chelmsford, MA 01824
(978) 905-2100

Figure 1

SHEET

AECOM



NOTE:
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SOURCE:
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- The City of Nashua, NH, Online GIS
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- City of Nashua DPW, Amherst Street Reconstruction Plan: STA 637+00 to 649+00, September 1973

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- 1 — Regular Grade
- 2 — Premium Grade
- STP — Submersible Turbine Pump
- Manway & Line Leak Detector
- Syphon Line
- Fill
- Vapor Bar
- Electronic Interstice Space Monitor & ATG Probe Product Line
- Light
- Bushes
- Trees
- Sewer Manhole
- Drain Manhole
- Utility Pole
- MW-9 — Monitoring Well

CLIENT

7-Eleven, Inc.
P.O. Box 711
Dallas, TX 75221

PROJECT TITLE

7-Eleven Store #24433
361 Amherst Street
Nashua, New Hampshire

FIGURE TITLE

Site Plan

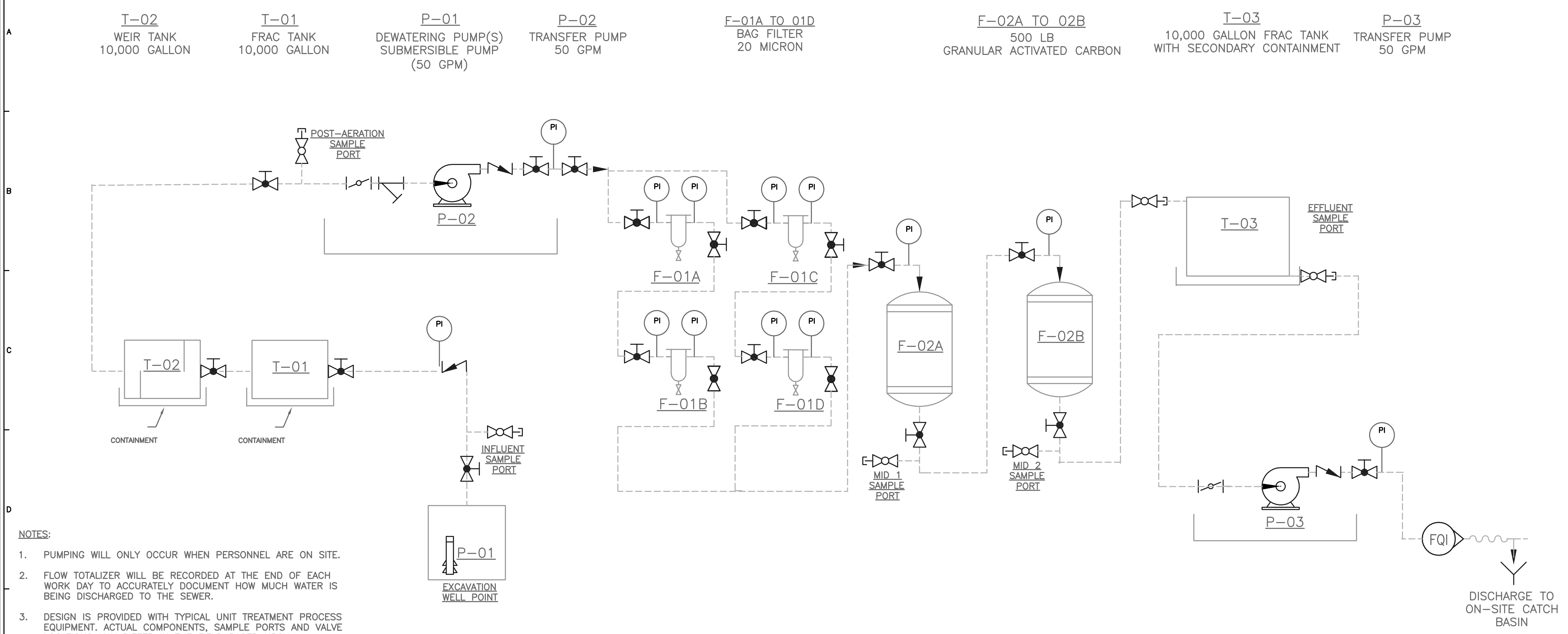
APPROVED BY	REVIEWED BY
M. Redmond	H. Glow
DRAWN BY	SCALE
K.Barry	1" = 60'
JOB NUMBER	DATE
60617854	March 2020

AECOM Environment
250 Apollo Drive
Chelmsford, MA 01824
(978) 905-2100

Figure 2

SHEET

AECOM



NOTES:

1. PUMPING WILL ONLY OCCUR WHEN PERSONNEL ARE ON SITE.
2. FLOW TOTALIZER WILL BE RECORDED AT THE END OF EACH WORK DAY TO ACCURATELY DOCUMENT HOW MUCH WATER IS BEING DISCHARGED TO THE SEWER.
3. DESIGN IS PROVIDED WITH TYPICAL UNIT TREATMENT PROCESS EQUIPMENT. ACTUAL COMPONENTS, SAMPLE PORTS AND VALVE LOCATIONS MAY DIFFER IN THE FIELD BASED UPON CONSTRUCTION DEWATERING AND TREATMENT EQUIPMENT AVAILABLE FOR RENT.
4. MAX DEWATERING FLOW: 50 GPM

LEGEND

- TREATED WATER
- IMPACTED WATER
- CHECK VALVE
- BALL VALVE
- Y-STRAINER
- BUTTERFLY VALVE
- PI PRESSURE INDICATOR
- PRESSURE GAUGE
- FQI LOCAL MOUNTED INSTRUMENT FLOW TOTALIZER

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
7							
6							
5							
4							
3							
2							
1							
0	NF	02/26/21	P&ID FOR DISCHARGE	MP	02/26/21	MP	02/26/21

AECOM

AECOM
250 Apollo Drive
Chelmsford, MA 01824
www.aecom.com

7-ELEVEN STORE #24433
361 Amherst St., Nashua, NH 03063

PROJ. NUMBER: 60617854 DATE: 02/24/2020

PROPOSED WATER TREATMENT SYSTEM PROCESS AND INSTRUMENTATION DIAGRAM

DRAWING NUMBER: Figure 2

SHEET NUMBER: 2 OF 2

REVISION 0

ATTACHMENT 4

Section G.2 of NOI Application

To determine the ESA eligibility, a preliminary determination by checking the IPaC online system is attached. An informal call was made to the U.S. Fish and Wildlife Services and Maria Tur from the Concord, NH office confirmed (on February 24, 2021) that the proposed activities in this location will not affect any species in the area. The preliminary assessment report is attached for reference.

IPaC resource list

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

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

Location

Hillsborough County, New Hampshire

Local office

New England Ecological Services Field Office

(603) 223-2541
(603) 223-0104

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

http://www.fws.gov/newengland

Endangered species

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

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

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

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

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

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

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

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

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

Mammals

NAME	STATUS

Northern Long-eared Bat Myotis septentrionalis — Threatened

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/9045

Critical habitats

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

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

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

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

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

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

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

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

NAME	BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Oct 15 to Aug 31
Black-billed Cuckoo *Coccyzus erythropthalmus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399	Breeds May 15 to Oct 10
Bobolink *Dolichonyx oryzivorus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Jul 31
Canada Warbler *Cardellina canadensis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Aug 10
Lesser Yellowlegs *Tringa flavipes* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere
Prairie Warbler *Dendroica discolor* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Jul 31

Rusty Blackbird Euphagus carolinus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Semipalmated Sandpiper Calidris pusilla This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Wood Thrush Hylocichla mustelina This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Aug 31

Probability of Presence Summary

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

Probability of Presence (■)

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

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

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

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

Breeding Season (■)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

What are the levels of concern for migratory birds?

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

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

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

Details about birds that are potentially affected by offshore projects

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

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

What if I have eagles on my list?

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

Proper Interpretation and Use of Your Migratory Bird Report

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

confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

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

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

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

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

THERE ARE NO KNOWN WETLANDS AT THIS LOCATION.

Data limitations

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

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

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

Data exclusions

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

Data precautions

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

ATTACHMENT 5

Section H.2 of NOI Application

To certify that the proposed activities and its discharges does not have adverse effects on a property or place that is listed in or eligible for listing in the National Register of Historic Places, a thorough search was conducted on the National Park Service's website as advised by EPA and the report is attached. No historic properties are present at or around this location.

Inventory #	Property Name	Address	Town	NR Listing Date
ACW0001	Acworth Congregational Church	Town Common	Acworth	6/13/1975
ACW0002	Acworth Silsby Library	Cold Pond and Lynn Hill Road	Acworth	12/8/1983
ALB0049	Russell-Colbath House	Kancamagus Highway	Albany	4/23/1987
ALL0007	Allenstown Meeting House	Deerfield Road	Allenstown	12/6/2004
ALL0013	Bear Brook State Park Civilian Conservation Corps	Allenstown-Deerfield Road intersection	Allenstown	4/23/1992
ALS0004	Jewett-Kemp-Marlens House	North Road	Alstead	5/30/1997
ALS0048	Shedd-Porter Memorial Library	3 Main Street	Alstead	12/27/2010
ALS0050	Hutchinson House	400 Alstead Center Road	Alstead	2/2/2015
ALT0001	Alton Bay Railroad Station	Route 11	Alton	9/22/1983
ALT0002	First Congregational Church	Church Street	Alton	3/9/1990
ALT0003	First Freewill Baptist Church	Drew Hill Road	Alton	8/1/1978
ALT0004	Second Free Baptist Church	Main Street, PO Box 338	Alton	3/9/1990
AMH0028	The Wigwam/The Old Methodist Church	Middle/Cross Street	Amherst	8/18/1982
AMH0031	Hildreth-Jones Tavern	18 Jones Road	Amherst	8/18/1982
AMH0043	Amherst Village Historic District	Mack Hill, Amherst Street, Davis, Foundry	Amherst	8/18/1982
AND0001	Bog Bridge	unidentified road over Pleasant Brook	Andover	3/16/1989
AND0002	Keniston Bridge	Bridge Road	Andover	3/16/1989
AND0003	Potter Place Railroad Station	Depot Street	Andover	3/16/1989
AND0009	Gershom Durgin House	Route 11, just west of Plains Road	Andover	10/26/2000
AND0015	Tucker Mountain School	Tucker Mountain Road	Andover	3/18/2005
AND0027	East Andover Village Center Historic District	Route 11, Chase Hill Road	Andover	3/16/1989
AND0028	Hersey Farms Historic District	1057 & 1088 Franklin Highway	Andover	6/10/2008
ANT0001	The Flint Estate	Old Keene Road	Antrim	12/13/1984
ASH0001	Ashland Grist Mill and Dam	Main Street	Ashland	12/10/1979
ASH0002	Ashland Railroad Station	39 Depot Street	Ashland	11/10/1982
ASH0003	Ashland Junior High School	12 School Street	Ashland	4/8/1983
ASH0035	Ashland Town Hall	10 Highland Street	Ashland	3/24/1983
ASH0036	First Freewill Baptist Church	13-15 Main Street	Ashland	4/8/1983
ASH0037	Saint Mark's Episcopal Church	6-8 Highland Street	Ashland	12/13/1984
ASH0038	Whipple House	4 Pleasant Street	Ashland	12/13/1978
ATK0005	Atkinson Academy School	17 Academy Avenue	Atkinson	8/26/1980
BAR0016	Oscar Foss Memorial Library	111 South Barnstead Road	Barnstead	11/7/1985
BRR0009	Canaan Chapel	Route 202 & Canaan Back Road	Barrington	3/11/1982
BRT0033	Bartlett Engine House	Route 302	Bartlett	9/29/2015
BAT0030	Goodall-Woods Law Office	Route 302, east side 2.75 mi. south of Landaff lin	Bath	8/26/1980
BAT0034	Jeremiah Hutchins Tavern	Route 302, west side 2.65 mi. south of Landaff Lin	Bath	9/7/1984
BAT0058	Bath Covered Bridge	off Route 302 over the Ammonoosuc River	Bath	9/1/1976
BAT0061	The Brick Store	Route 302, west side, Bath Village Green	Bath	11/7/1985
BAT0092	Swiftwater Covered Bridge	Porter Road over Ammonoosuc River	Bath	11/21/1976
BED0029	Bedford Town Hall	10 Meetinghouse Road	Bedford	12/13/1984
BED0212	Bedford Presbyterian Church	4 Church Road	Bedford	6/12/2007
BEL0112	Belmont Public Library	Main Street	Belmont	9/12/1985

BER0042	George E. Burgess School/Notre Dame High School	411 School Street	Berlin	6/25/2015
BER0049	Congregational Church	921 Main Street	Berlin	1/4/1980
BER0050	Holy Resurrection Orthodox Church	Petrograd Street	Berlin	5/16/1979
BER0051	St. Anne Church	58 Church Street	Berlin	5/29/1979
BER0082	Saint Anne Historic District	Pleasant, Main, Church, School and Success Streets	Berlin	9/18/2018
BET0019	Rocks Estate	Route 302 and Glessner Road	Bethlehem	9/7/1984
BET0023	Burt-Cheney Farm	Rt. 302	Bethlehem	3/25/1982
BET0024	Felsengarten	Lewis Hill Road	Bethlehem	6/18/1973
BOS0014	Boscawen Academy & "Much-I-Do" Hose House	226 King Street	Boscawen	12/8/1980
BOS0015	Boscawen Public Library	250 King Street	Boscawen	5/28/1981
BOS0016	First Congregational Church of Boscawen	12 High Street	Boscawen	4/19/1982
BOS0017	Morrill-Lassonde Property	150 King Street	Boscawen	3/15/1984
BRA0019	Bement Covered Bridge	Center Road	Bradford	11/21/1976
BRA0020	Bradford Center Meetinghouse	18 Rowe Mountain Road	Bradford	6/13/2014
BRA0021	Bradford Town Hall	West Main Street	Bradford	11/13/1980
BRI0044	Bristol Town Hall	45 Summer Street	Bristol	9/29/2015
BRI0059	Minot-Sleeper Library	14 Pleasant Street	Bristol	9/15/1988
BRI0060	Central Square Historic District	Central Square	Bristol	3/24/1983
BRK0001	Brookfield Town Hall	Route 109	Brookfield	6/6/1985
CAN0020	Canaan Meetinghouse	Canaan Street	Canaan	3/24/1972
CAN0021	Canaan Street Historic District	Canaan St.	Canaan	5/7/1973
CND0005	Smyth Library	194 High Street	Candia	9/13/2007
CNT0015	Canterbury Shaker Village	288 Shaker Road	Canterbury	6/17/1975
CAR0022	Crawford Depot	NW of Saco Lake, off Rt. 302	Carroll	4/29/1982
CAR0023	Mount Washington Hotel	310 Mount Washington Road	Carroll	9/27/1978
CAR0024	Fabyan Guard Station	Old Cherry Mountain Road	Carroll	5/14/2018
CEN0009	Centre Harbor Village Historic District	Main and Plymouth Sts.	Center Harbor	9/8/1983
CHA0006	Sumner House	40 Main Street	Charlestown	6/10/1987
CHA0007	Sumner Carriage House	River Street	Charlestown	6/10/1987
CHA0017	Silsby Free Public Library	226 Main Street	Charlestown	6/10/1987
CHA0021	Farwell School	Route 12-A	Charlestown	12/6/1990
CHA0022	Charlestown Town Hall	N. side of Summer Street, off Main St	Charlestown	3/15/1984
CHA0023	North Charlestown Historic District	River Rd.	Charlestown	6/9/2005
CHA0024	Charlestown Main Street Historic District	Main St.	Charlestown	6/10/1987
CHE0008	Chester Congregational Church	4 Chester Street	Chester	6/5/1986
CHE0009	Chester Village Cemetery	Intersection of Routes 102 and 121	Chester	11/29/1979
CHE0010	Stevens Memorial Hall	1 Chester Street	Chester	9/10/2004
CHS0012	Asbury United Methodist Church	536 Route 63	Chesterfield	12/21/1983
CHI0048	Depot Road Bridge	0.15 mi. E of NH 28 on Depot Rd.	Chichester	3/10/2004
CLA0122	Claremont City Hall (Claremont Opera House)	Tremont Square	Claremont	4/26/1973
CLA0123	David Dexter House	Lincoln Heights	Claremont	11/29/1979
CLA0124	English Church	Old Church Road	Claremont	2/1/1980
CLA0125	William Rossiter House	11 Mulberry Street	Claremont	5/25/1979

CLA0126	Claremont Warehouse No. 34	Heritage Place	Claremont	2/28/1979
CLA0127	Lower Village District	Along Central Street and Main Street	Claremont	2/21/1978
CLA0128	Monadnock Mills	Banks of Sugar River	Claremont	2/15/1979
COL0020	Benjamin Aldrich Homestead	Aldrich Road	Colebrook	3/11/2003
CLM0008	Wallace Farm	28 Wallace Farm Road	Columbia	12/13/2001
CLM0015	Columbia Covered Bridge	Columbia Bridge Road	Columbia	12/12/1976
CON0006	New Hampshire Savings Bank	116-118 North Main Street	Concord	6/9/2000
CON0007	Eagle Hotel	110 North Main Street	Concord	9/20/1978
CON0008	Merchants Exchange Block	94-102 North Main Street	Concord	6/9/2000
CON0009	Eagle Stable	7 Eagle Square	Concord	6/9/2000
CON0010	Stone Warehouse	6 Eagle Square	Concord	6/9/2000
CON0011		5 Eagle Square	Concord	6/9/2000
CON0013	Merchants Block	84-92 North Main Street	Concord	6/9/2000
CON0014		82 North Main Street	Concord	6/9/2000
CON0015	Rumford Block	76-80 North Main Street	Concord	6/9/2000
CON0016	Woodward's Block	70-74 North Main Street	Concord	6/9/2000
CON0017	Cyrus Hill Block	64-68 North Main Street	Concord	6/9/2000
CON0018	Governor Hill's Block	58-62 North Main Street	Concord	6/9/2000
CON0019	E&P Hotel Co./ Hill's Block	54-56 North Main Street	Concord	6/9/2000
CON0020	Phenix Hotel	44-52 North Main Street	Concord	6/9/2000
CON0021	Phenix Livery Stable	18 Low Avenue	Concord	6/9/2000
CON0022	Thompson & Hoague Ag. Warehouse	16 Low Avenue	Concord	6/9/2000
CON0023	Phenix Hall	36-42 North Main Street	Concord	6/9/2000
CON0026	Martin and Luscomb Block	1-5 Depot Street	Concord	6/9/2000
CON0027	Griffin Block	7-7 1/2 Depot Street	Concord	6/9/2000
CON0028	Smith and Walker Block	9-15 Depot Street	Concord	6/9/2000
CON0029	Depot Iron Store	17 Depot Street	Concord	6/9/2000
CON0030	Statesman Building	18-20 North Main Street	Concord	6/9/2000
CON0031	Currier's Block	14-16 North Main Street	Concord	6/9/2000
CON0032	Moore's Block	4-12 North Main Street	Concord	6/9/2000
CON0033	Dutton's Block	2-2 1/2 North Main Street	Concord	6/9/2000
CON0034		3-13 Pleasant Street Extension	Concord	6/9/2000
CON0038	Monitor and Statesman Building	10 Pleasant Street Extension	Concord	6/9/2000
CON0039	Endicott Hotel (Blanchard's Block)	1 South Main Street	Concord	5/29/1987
CON0041	Colonial Block	9-13 South Main Street	Concord	6/9/2000
CON0042	Shapiro Building	15-23 South Main Street	Concord	6/9/2000
CON0043	Hall Brothers Commercial Block	25-29 South Main Street	Concord	6/9/2000
CON0044	Hall Brothers Garage	31 South Main Street	Concord	6/9/2000
CON0045		33 South Main Street	Concord	6/9/2000
CON0046	Edson Hill Carriage House	7 Hills Avenue	Concord	6/9/2000
CON0047		9 Hills Avenue	Concord	6/9/2000
CON0048	Hunt-Wood Terrace	28 South Main Street	Concord	6/9/2000
CON0049	First National Store	24-26 South Main Street	Concord	6/9/2000

CON0050	James S. Norris Residence	20-20 1/2 South Main Street	Concord	6/9/2000
CON0051	Norris Bakery/Concord Theater	16-18 South Main Street	Concord	6/9/2000
CON0052	Foster Block	10-14 South Main Street	Concord	6/9/2000
CON0054	Acquilla Building	2-4 South Main Street	Concord	6/9/2000
CON0055	Optima Building	7 Pleasant Street	Concord	6/9/2000
CON0056		9-13 Pleasant Street	Concord	6/9/2000
CON0057	Star Theater	15 Pleasant Street	Concord	6/9/2000
CON0058		19 Pleasant Street	Concord	6/9/2000
CON0059	Fowler Building (West)	34-36 Pleasant Street	Concord	6/9/2000
CON0060	Fowler Building (East)	26-32 Pleasant Street	Concord	6/9/2000
CON0061	Odd Fellows Building	18-24 Pleasant Street	Concord	6/9/2000
CON0062		9-11 Odd Fellows Avenue	Concord	6/9/2000
CON0064	McShane's Block	1-5 Odd Fellows Avenue	Concord	6/9/2000
CON0065	Whittemore and Kimball Sawing mill	5 Market Lane	Concord	6/9/2000
CON0069	Chase Block	11-19 North Main Street	Concord	6/9/2000
CON0070	Morrill and Silsby Building	21 North Main Street	Concord	6/9/2000
CON0071	Central Block	25-35 North Main Street	Concord	6/9/2000
CON0072	Police Station	3-5 Warren Street	Concord	6/9/2000
CON0074	McShane Block	9-17 Warren Street	Concord	6/9/2000
CON0075		32 Warren Street	Concord	6/9/2000
CON0076		26-30 Warren Street	Concord	6/9/2000
CON0077		22 Warren Street	Concord	6/9/2000
CON0079	Concord National Bank Building	47-49 North Main Street	Concord	6/9/2000
CON0080	Morrill Brothers Building	53-55 North Main Street	Concord	6/9/2000
CON0082	James R. Hill Building	67 North Main Street	Concord	6/9/2000
CON0084	State Block	71-81 North Main Street	Concord	6/9/2000
CON0085	Evans Printing Company	29 School Street	Concord	6/9/2000
CON0086	Board of Trade Building	83-85 North Main Street	Concord	6/9/2000
CON0087	Columbian Building	87-93 North Main Street	Concord	6/9/2000
CON0088	New Hampshire Savings Bank	97 North Main Street	Concord	6/14/1988
CON0089	White's Block	7-19 Capitol Street	Concord	6/9/2000
CON0090	Patriot Building	103-111 North Main Street	Concord	6/9/2000
CON0093	St. Paul's Episcopal Church	Park Street	Concord	6/9/2000
CON0094	Upham-Walker House	18 Park Street	Concord	5/15/1980
CON0095	First Baptist Church	20 North State Street	Concord	6/9/2000
CON0096		12 North State Street (34-36 Warren St.)	Concord	6/9/2000
CON0097	Kirkwood-Kimball House	10 North State Street	Concord	6/9/2000
CON0098		8 North State Street	Concord	6/9/2000
CON0099	Fellows Building	4 North State Street	Concord	6/9/2000
CON0100	The Kearsarge	5-7 South State Street	Concord	6/9/2000
CON0101	Wonolancet Club	1 North State Street	Concord	6/9/2000
CON0102	Concord Monitor Building	3 North State Street	Concord	6/9/2000
CON0103	Enos Blake House	7 North State Street	Concord	6/9/2000

CON0105	Central Fire Station	38-42 Warren Street	Concord	6/9/2000
CON0107	First Church of Christ, Scientist	39 School Street	Concord	6/9/2000
CON0138	Page Belting Company Mills	26 Commercial Street	Concord	6/14/2002
CON0148	H. Styles Bridges House	21 Mountain Road	Concord	12/22/2005
CON0157	Leavitt Farm	103 Old Loudon Road	Concord	3/11/1982
CON0166	White Farm	144 Clinton Street	Concord	5/15/1981
CON0170	Dimond Hill Farm	314 Hopkinton Road	Concord	3/15/2007
CON0201		6 Dixon Avenue	Concord	6/9/2000
CON0202	Dow Block	8-14 Dixon Avenue	Concord	6/9/2000
CON0203	Stickney North Block	148-158 North Main Street	Concord	6/9/2000
CON0204	Stickney's Block	132 1/2-146 North Main Street	Concord	6/9/2000
CON0205	Stickney's Old Block	120-132 North Main Street	Concord	6/9/2000
CON0252	Tuttle House	12 Gabby Lane (formerly 257 Pleasant Street)	Concord	8/31/1995
CON0256	Rolfe Family Barn and Homestead	16 Penacook Street	Concord	3/15/2007
CON0288	Concord Gas Light Co. Gasholder House	Gas Street	Concord	1/12/2018
CON0308	Williams-Pierce House site	52 South Main Street	Concord	1/1/1979
CON0357	Chamberlain House	44 Pleasant Street	Concord	8/16/1982
CON0405	Blossom Hill and Calvary Cemeteries	North State Street	Concord	12/15/2010
CON0526	Concord Civic District	107 N. Main, 25 Capitol, 39-45 Green, 20-30 Park	Concord	12/22/1983
CON0527	Concord Historic District	Church Street, Bouton Street, N. State Street	Concord	6/11/1975
CON0528	Henry J. Crippen House	189-191 North Main Street	Concord	12/22/1983
CON0529	Lewis Downing Jr. House	33 Pleasant Street	Concord	9/11/1987
CON0530	Downtown Concord Historic District	N&S Main, N&S State, Dixon, Low, Capitol, Park.	Concord	6/9/2000
CON0531	Farrington House	30 South Main Street	Concord	3/9/1982
CON0532	Reuben Foster & Perley Cleaves House	62-64 North State Street	Concord	3/15/1982
CON0533	Merrimack County Courthouse	163 North Main Street	Concord	11/27/1979
CON0534	Merrimack County Bank	214 North Main Street	Concord	2/28/1980
CON0535	Millville School	2 Fisk Road	Concord	11/7/1985
CON0536	Old North Cemetery	North State Street	Concord	11/9/2008
CON0537	Old Post Office	33 North State Street	Concord	8/13/1973
CON0538	Franklin Pierce House	52 South Main Street	Concord	10/15/1979
CON0540	2 1/2 Beacon Street	2.5 Beacon Street	Concord	12/17/1984
CON0541	White Park	Beacon, White, Washington, High, Centre Streets	Concord	11/9/1982
CON0552	Governor Frank West Rollins House	135 North State Street	Concord	3/15/1984
CNW0106	North Conway 5 Cents and 10 Cents Store	2683 White Mountain Highway/Main Street	Conway	1/5/2004
CNW0171	William K. Eastman House	100 White Mountain Highway/ Main Street	Conway	6/6/2001
CNW0181	Bolduc Block	36 White Mountain Highway/ Main Street	Conway	9/20/2016
CNW0188	Conway Public Library	15 Greenwood Avenue	Conway	7/17/2018
CNW0214	Abenaki Indian Shop and Camp	Intervale Cross Road, NE of railroad tracks	Conway	2/28/1991
CNW0773	North Conway Depot and Railroad Yard	Norcross Circle off Main Street/White Mountain Hwy	Conway	8/10/1979
CNW0777	Eastern Slope Inn	2760 White Mountain Highway/Main St	Conway	8/10/1982
COR0005	Louis St. Gaudens Home and Studio	Dingleton Hill and Whitten Roads	Cornish	11/15/1972
COR0006	Salmon Portland Chase Birthplace and Boyhood Home	Route 12A	Cornish	5/15/1975

COR0007	Blow-Me-Down Covered Bridge	Lang Road/ Squag City Road	Cornish	5/19/1978
COR0008	Cornish-Windsor Covered Bridge	Bridge Street	Cornish	11/21/1976
COR0009	Dingleton Hill Covered Bridge	Root Hill Road	Cornish	11/8/1978
COR0010	First Baptist Church	20 Cornish Stage Road	Cornish	2/14/1978
COR0011	Kenyon Bridge	Town House Road	Cornish	5/22/1978
COR0012	Trinity Church	883 Route 12A	Cornish	7/31/1978
COR0013	Saint-Gaudens National Historic Site Historic District	139 Saint Gaudens Rd.	Cornish	10/2/2013
DNB0009	South Danbury Christian Meeting House / South Danbury Christian Church	Rt. 4 (1/4 mile S of where Walker Rd meets Rt. 4)	Danbury	6/6/1985
DAN0001	Danville Town Hall	210 Main Street	Danville	12/1/2001
DAN0003	John Elkins Farmstead	156 Beach Plain Road	Danville	8/30/1996
DAN0010	Danville Meeting House	470 Main Street	Danville	4/19/1982
DAN0011	Elm Farm	599 Main Street	Danville	1/22/1988
DAN0012	John Elkins Farmstead		Danville	8/30/1996
DEE0003	Deerfield Town House	Church Street	Deerfield	4/17/1980
DEE0004	Deerfield Center Historic District	1 Candia Road, 1-14 Old Center Road South	Deerfield	9/14/2002
DER0048	Adams Memorial Building	29 West Broadway	Derry	1/11/1972
DER0187	Matthew Thornton House	2 Thornton Street	Derry	11/11/1971
DER0188	Robert Frost Homestead	122 Rockingham Rd	Derry	5/23/1968
DER0190	East Derry Historic District	East Derry	Derry	8/10/1982
DIX0001	The Balsams	Route 26	Dixville	3/13/2002
DOR0001	Dorchester Community Church	North Dorchester Road	Dorchester	11/25/1980
DOR0003	Dorchester Common Historic District	Dorchester Road north of intersection with Rt. 118	Dorchester	3/7/1985
DOV0171	Public Market	93 Washington Street	Dover	3/7/1985
DOV0211	Cocheco Mills	Main & Washington Streets	Dover	3/24/2014
DOV0212	County Farm Covered Bridge	County Farm Road	Dover	5/21/1975
DOV0213	Back River Farm	99 111 Bay View Rd	Dover	6/22/1984
DOV0214	First Parish Church	218 Central Avenue	Dover	3/11/1982
DOV0215	Garrison Hill Park and Tower	Abbie Sawyer Memorial Drive	Dover	9/11/1987
DOV0216	William Hale House	5 Hale Street	Dover	11/18/1908
DOV0217	US Post Office - Dover Main	133-137 Washington Street	Dover	7/17/1986
DOV0218	Michael Reade House	43 Main Street	Dover	2/12/1980
DOV0219	Religious Society of Friends Meetinghouse	141 Central Avenue	Dover	2/29/1980
DOV0220	St. Thomas' Episcopal Church	5 Hale Street	Dover	6/7/1994
DOV0222	Sawyer Woolen Mills	1 Mill Street	Dover	9/13/1989
DOV0223	Strafford County Farm	County Farm Road	Dover	2/25/1981
DOV0224	Woodbury Mill	1 Dover Street	Dover	3/25/2013
DOV0225	Woodman Institute	182 Central Avenue	Dover	7/24/1980
DOV0226	Samuel Wyatt House	7 Church Street	Dover	12/2/1982
DUB0005	Dublin Town Hall	1120 Main Street	Dublin	6/25/1980
DUB0006	Eli Morse Farm	Lake Road	Dublin	4/11/1983
DUB0007	Dublin Village Historic District	Old Common, Harrisville, Main, and Church Streets	Dublin	12/15/1983
DUB0008	Dublin Lake Historic District	Dublin Lakeshore	Dublin	12/18/1983
DUB0009	Eli Morse Sawmill Foundations	Old Marlborough Road	Dublin	12/18/1983

DUB0010	Asa Morse Farm	716 Main Street	Dublin	12/15/1983
DUB0011	Capt. Samuel Allison House	459 Main Street	Dublin	12/18/1983
DUB0012	Capt. Thomas Morse Farm	Old Marlborough Road	Dublin	12/15/1983
DUB0013	Foothill Farm	60 Old Troy Road	Dublin	12/15/1983
DUB0014	Amory House	Old Troy Road	Dublin	12/15/1983
DUB0015	Amory Ballroom	Old Troy Road	Dublin	5/2/1985
DUB0016	Amory- Appel Cottage	Old Troy Road	Dublin	5/2/1985
DUB0017	Weldwood	Old Troy Road	Dublin	12/15/1983
DUB0018	Lattice Cottage	Old Troy Road	Dublin	12/15/1983
DUB0019	Frost Farm	Old Marlborough Road	Dublin	12/15/1983
DUB0020	Ballou-Newbegin House	Old Marlborough Road	Dublin	12/18/1983
DUB0021	Stone-Darracott House	Old Marlborough Road	Dublin	12/15/1983
DUB0022	Stone Farm	Stone Pond	Dublin	12/18/1983
DUB0023	Solomon Piper Farm	Valley Road	Dublin	12/18/1983
DUB0024	Ivory Perry Homestead	Valley Road	Dublin	12/18/1983
DUB0025	John Perry Homestead	Dooe Road	Dublin	12/18/1983
DUB0026	Brackett House	High Ridge Road	Dublin	12/18/1983
DUB0027	James Robbe Jr. House	Old Peterborough Road	Dublin	12/18/1983
DUB0028	Micajah Martin Farm	Old Peterborough Road	Dublin	12/18/1983
DUB0029	Wood House	Bond's Corner	Dublin	12/15/1983
DUB0030	Amos Learned Farm	Lower Jaffrey Road	Dublin	12/15/1983
DUB0031	Frost Farm	Korpi Road	Dublin	12/18/1983
DUB0032	The Moore Farm and Twitchell Mill Site	Page Road	Dublin	12/18/1983
DUB0033	James Gowing Farm	Page Road	Dublin	12/18/1983
DUB0034	Joseph Gowing Farm	Page Road	Dublin	12/15/1983
DUB0035	Appleton Farm	73 Brush Brook Road	Dublin	12/18/1983
DUB0036	Luke Richardson House	Hancock Road	Dublin	12/15/1983
DUB0037	Appleton-Hannaford House	253 Hancock Road	Dublin	12/15/1983
DUB0038	Deacon Abijah Richardson House	334 Hancock Road	Dublin	12/18/1983
DUB0039	Abijah Richardson Sr. House	359 Hancock Road	Dublin	12/18/1983
DUB0040	John Richardson Homestead	Hancock Road	Dublin	12/18/1983
DUB0041	Townsend Farm	East Harrisville Road	Dublin	12/15/1983
DUB0042	Benjamin Marshall House	1541 Peterborough Road	Dublin	12/15/1983
DUB0043	Richard Strong Cottage	35 Gowing Lane	Dublin	12/15/1983
DUB0044	Capt. Richard Strong House	1471 Peterborough Road	Dublin	12/18/1983
DUB0045	Fisk Barn	Gerry Road	Dublin	12/18/1983
DUB0046	Henry Strongman House	1443 Peterborough Road	Dublin	12/15/1983
DUB0047	Isaac Greenwood House	Peterborough Road	Dublin	12/18/1983
DUB0048	William Strongman House	85 Old County Road	Dublin	12/18/1983
DUB0049	Moses Greenwood House	Pierce and Old County Road	Dublin	12/15/1983
DUB0050	Ivanov-Rinov House	88 Pierce Road	Dublin	12/18/1983
DUB0051	Rufus Piper Homestead	Pierce Road	Dublin	12/15/1983
DUB0052	Louis Cabot House	Windmill Hill Road	Dublin	12/18/1983

DUB0053	Windmill Hill	Windmill Hill Road	Dublin	12/18/1983
DUB0054	Stonehenge	Windmill Hill Road	Dublin	12/18/1983
DUB0055	McKenna Cottage	Windmill Hill Road	Dublin	12/18/1983
DUB0056	Corey Farm	Parsons Road	Dublin	12/15/1983
DUB0057	Parsons Studio and Casino	Parsons Road	Dublin	12/18/1983
DUB0058	Spur House	Old Common Road	Dublin	12/15/1983
DUB0059	Beech Hill	Off New Harrisville Road	Dublin	12/15/1983
DUB0060	Benjamin Learned House	Upper Jaffrey Road	Dublin	12/18/1983
DUB0061	Learned Homestead	Upper Jaffrey Road	Dublin	12/15/1983
DUB0062	Knollwood	Windmill Hill Road	Dublin	12/18/1983
DUB0063	Mountain View Farm	Upper Jaffrey Road	Dublin	12/18/1983
DUB0064	Far Horizons	Learned Road	Dublin	12/15/1983
DUB0065	Burpee Farm	Burpee Road	Dublin	12/18/1983
DUB0066	Eveleth Farm	Burpee Road	Dublin	12/18/1983
DUB0067	Markham House	Snow Hill Road	Dublin	12/18/1983
DUB0068	Mary Anne Wales House	Snow Hill Road	Dublin	12/18/1983
DUB0069	Mason House	Snow Hill Road	Dublin	12/15/1983
DUB0070	Pumpelly Studio	Snow Hill Road	Dublin	12/18/1983
DUB0071	T.H. Cabot Cottage	Snow Hill Road	Dublin	12/15/1983
DUR0010	Thompson Hall	Main Street (UNH Campus)	Durham	12/6/1996
DUR0023	Smith Chapel	45 Mill Pond Road	Durham	2/13/2013
DUR0030	Durham Historic District	Main Street and Newmarket Road	Durham	5/31/1980
DUR0031	General John Sullivan House	23 Newmarket Road	Durham	11/28/1972
EAK0015	Greeley House	84 NH Route 108	East Kingston	6/16/1990
EAT0003	White Meetinghouse	Towle Hill Road at Burnham Road	Eaton	5/15/1980
EFF0004	Lord's Hill Congregational Church	Route 153	Effingham	9/12/1985
EFF0009	Lord's Hill Historic District	Route 153, Plantation Road Hobbs Road	Effingham	9/12/1985
ENF0023	Woodbury House	130 Main Street	Enfield	4/19/2010
ENF0025	Francis H. Wells House	16 Wells Street	Enfield	4/19/2010
ENF0031	North Enfield Universalist Meeting House	96 Main Street	Enfield	4/19/2010
ENF0033	J.P. Washburn House	102 Main Street	Enfield	4/19/2010
ENF0035	Duplex	264 Route 4	Enfield	4/19/2010
ENF0036	The Hewitt House	US Route 4 (corner of May Street)	Enfield	11/7/1985
ENF0037	Center Village Meeting House	NH Route 4A	Enfield	6/6/1985
ENF0038	Enfield Village Historic District		Enfield	4/19/2010
ENF0039	Enfield Shaker District	Route 4A	Enfield	11/7/1979
ENF0050	Enfield Center Town House	1044 NH Route 4A	Enfield	7/17/2017
EPP0094	Prescott, Benjamin Franklin House	Prescott Road	Epping	12/3/1987
EPP0095	Watson Academy	Academy Street	Epping	11/9/1982
EPS0070	Charles S. Hall House	Dover Road, N side, .2 mi. E of Goboro Rd.	Epsom	6/13/2002
EXE0020	Exeter Banking Co.	154 Water Street	Exeter	7/5/1973
EXE0021	Exeter News-Letter Building	156 Water Street	Exeter	7/5/1973
EXE0100	First Church	21 Front Street	Exeter	9/10/1971

EXE0101	Dudley House	14 Front Street	Exeter	6/21/1971
EXE0102	Gilman Garrison House	12 Water Street	Exeter	6/21/1971
EXE0103	Major John Gilman House	25 Cass Street	Exeter	6/14/1988
EXE0104	Moses/Kent House	1 Pine Street	Exeter	9/12/1985
EXE0105	Edward Sewall Garrison	16 Epping Road	Exeter	1/1/1980
EXE0106	Samuel Tenney House	65 High Street	Exeter	11/25/1980
EXE0107	Ladd-Gilman House	Governor's Lane	Exeter	12/2/1974
EXE0108	Front Street Historic District	0-100 Front St. to int. of Spring & Water Streets	Exeter	7/5/1973
EXE0109	Exeter Waterfront Commercial-Historic District	Water, Franklin, Pleasant, High, Chestnut Sts.	Exeter	12/3/1980
FAR0008	Town Pound	Pound Road	Farmington	9/2/1993
FAR0024	First Congregational Church	400 Main Street	Farmington	1/12/2018
FIT0018	Fitzwilliam Common Historic Distric	Rt 119, Richmond Road, Templeton Hwy	Fitzwilliam	5/2/1997
FIT0020	Third Fitzwilliam Meetinghouse	13 Templeton Turnpike	Fitzwilliam	8/26/1977
FRN0017	Levi Woodbury Homestead	1 Main Street	Francestown	3/15/2007
FRN0067	Francestown Meetinghouse	44 Route 136	Francestown	6/14/1996
FRN0068	Old County Road Historic District	Old County Road	Francestown	5/15/1980
FRC0002	Abbie Greenleaf Library	Main Street	Franconia	6/13/2003
FRC0012	Lovett's Inn	1474 Profile Road	Franconia	3/11/1982
FRC0013	Dow Academy	Dow Avenue	Franconia	8/31/1982
FRC0014	The Frost Place	South of Franconia off NH Route 116 on Ridge Road	Franconia	11/30/1976
FRA0050	Daniel Webster Family Home	South Main Street	Franklin	5/30/1974
FRA0051	Sulphite Railroad Bridge	Off Rt. 3 over Winnipesaukee River	Franklin	6/11/1975
FRA0172	Franklin Falls Historic District		Franklin	8/19/1982
FRM0008	Fremont Meeting House	464 Main Street	Fremont	5/27/1993
GLF0045	Benjamin Rowe House	88 Alvah Wilson Road (former Belknap Mountain Rd)	Gilford	4/30/2008
GLF0064	District No.9 Schoolhouse	358 Hoyt Road	Gilford	3/15/2000
GLF0114	Kimball Castle (The Broads)	Locke's Hill Road	Gilford	8/16/1982
GLF0119	John J. Morrill Store	Belknap Mountain Road	Gilford	8/29/1980
GLM0032	Centre Congregational Church	Province Road	Gilmanton	9/8/1983
GLM0033	Smith Meeting House	Meetinghouse Road	Gilmanton	3/23/1998
GLM0035	First Baptist Church	Province Road (Route 107)	Gilmanton	12/1/1989
GLM0036	Gilmanton Academy	Province Road	Gilmanton	9/8/1983
GLM0037	Gilmanton Ironworks Library	Elm Street	Gilmanton	3/16/1989
GIL0001	Gilsum Stone Arch Bridge		Gilsum	8/31/1989
GOF0008	Congregational Church	10 Main Street	Goffstown	3/1/1996
GOF0028	Goffstown High School	12 Reed Street	Goffstown	12/19/1997
GOF0043	Goffstown Public Library	2 High Street	Goffstown	12/7/1995
GOF0062	Grasmere Schoolhouse #9 and Town Hall	87 Center Street	Goffstown	9/5/1990
GOF0064	Main Street Historic District	Main Street	Goffstown	3/15/2007
GOF0065	Goffstown Covered Railroad Bridge	Main Street	Goffstown	6/18/1975
GOF0066	Parker's Store	North Mast Road	Goffstown	5/14/1980
GOF0067	Kennedy Hill Farm	Kennedy Hill Road	Goffstown	6/7/1984
GOR0010	George Washington Noyes House	2 Prospect Terrace	Gorham	9/19/2016

GOS0016	Garber House	144 Lempster Coach Road	Goshen	6/21/1985
GOS0018	Durham House	24 Ball Park Road	Goshen	6/21/1985
GOS0029	Windswept Acres/Powers House	1394 Washington Road	Goshen	6/21/1985
GOS0033	Captain John Gunnison House	Goshen Center Road	Goshen	12/19/1979
GOS0034	Backside Inn	Brook Road	Goshen	6/21/1985
GOS0035	Burford House	NH Route 10	Goshen	6/21/1985
GOS0036	Cote House	Goshen Center Road	Goshen	6/21/1985
GOS0037	Covit House	Goshen Center Road	Goshen	6/21/1985
GOS0038	Giffin House	NH Route 10	Goshen	6/21/1985
GOS0039	Janicke House	Goshen Cener Road	Goshen	6/21/1985
GOS0040	Knights-Morey House	Province Road	Goshen	6/21/1985
GOS0042	Pike House	NH Route 10	Goshen	6/21/1985
GOS0043	Purnell House	NH Route 10	Goshen	6/21/1985
GOS0044	Scranton House	Brook Road	Goshen	6/21/1985
GOS0045	Seavey House	NH Route 10	Goshen	6/21/1985
GOS0046	Stelljes House	NH Route 31	Goshen	6/21/1985
GOS0047	Welcome Acres	NH Route 10	Goshen	6/21/1985
GRE0396	Greenfield Meetinghouse	Forest Road	Greenfield	12/8/1983
GRL0023	Weeks House	Weeks Avenue	Greenland	6/20/1975
HMP0007	Hampstead Meeting House	Emerson Avenue	Hampstead	4/10/1980
HAM0027	James House	186 Towle Farm Road	Hampton	3/13/2002
HAM0106	Reuben Lamprey Homestead	416 Winnacunnet Road	Hampton	11/9/1982
HMF0005	Governor Meshech Weare House	Exeter Road	Hampton Falls	6/29/1973
HMF0006	Unitarian Church	Exeter Road	Hampton Falls	12/13/1984
HAN0016	Hancock-Greenfield Bridge/County Bridge	Forest Road	Hancock	5/5/1981
HAN0017	Hancock Village Historic District	Main Street/Bennington Road/Norway Hill Road	Hancock	3/8/1988
HNO0001	Etna or Town Library	130 Etna Road	Hanover	4/25/1970
HNO0002	Etna Stone Bridge	Great Hollow Road over Mink Brook	Hanover	5/12/1997
HNO0112	Epic of American Civilization Murals, Baker Library	6025 Baker-Berry Library	Hanover	2/27/2013
HAR0006	Harrisville Rural District	Harrisville	Harrisville	2/18/1987
HAR0007	Harrisville Historic District	Harrisville-Dublin Road	Harrisville	9/17/1971
HAR0008	Fasnacloich / E.C. MacVeigh House	MacVeigh Road	Harrisville	1/14/1988
HAR0009	Beech Hill Summer Home District	Venable Road	Harrisville	1/14/1988
HAR0010	Pottersville District	Brown Road	Harrisville	12/29/1986
HAR0011	Chesham Village District	Seaver Rd, Yellow Wings Rd, Silver Lake Rd	Harrisville	12/29/1986
HAR0012	Silver Lake District	Eastside and Westside Road	Harrisville	12/29/1986
HAR0013	The Acre	187 Main Street	Harrisville	1/14/1988
HAR0014	George Cheever Farm	9 Tolman Pond Road	Harrisville	1/14/1988
HAR0015	Clymer House	31 Clymers Drive	Harrisville	1/14/1988
HAR0016	Wildwood Cottage	100 Bancroft Road	Harrisville	1/14/1988
HAR0017	Timothy Bancroft House	98 Bancroft Road	Harrisville	1/14/1988
HAR0018	Raubold House	835 Chesham Road	Harrisville	1/14/1988
HAR0019	Aldworth Manor	184 Aldworth Manor Road	Harrisville	1/14/1988

HAR0020	Needham House	Meadow Road	Harrisville	1/14/1988
HAR0021	Smith-Mason Farm	Old Harrisville Road/Meadow Road	Harrisville	1/14/1988
HAR0022	Elbridge G. Bemis House	365 Chesham Road	Harrisville	1/14/1988
HAR0023	George Bemis House	363 Chesham Road	Harrisville	1/14/1988
HAR0024	Willard Homestead	10 Monadnock Road	Harrisville	1/14/1988
HAR0025	John Adams Homestead/ Wellscroft Farm	167 Sunset Hill Road	Harrisville	1/14/1988
HAR0026	Kendall Cottage	210 Breed Road	Harrisville	1/14/1988
HAR0027	Silver Lake Farm	Seaver Road	Harrisville	1/14/1988
HAR0028	Corban C. Farwell Homestead	26-28 Cricket Hill Road	Harrisville	1/14/1988
HAR0029	Glenchrest	Route 137	Harrisville	1/14/1988
HAR0030	Gilchrest	Route 137	Harrisville	1/14/1988
HAR0031	Moses Eaton Jr. House	5 Sargent Camp Road	Harrisville	1/14/1988
HAR0032	Jabez Townsend House	660 Hancock Road	Harrisville	1/14/1988
HAR0033	Stationmaster's House	Jaquith Road	Harrisville	1/14/1988
HAR0034	Point Comfort	225 Skatutakee Lake Road	Harrisville	1/14/1988
HAR0035	Persia Beal House	797 Chesham Road	Harrisville	1/14/1988
HAR0036	Adams Farm	MacVeagh Road	Harrisville	1/14/1988
HAV0015	Opera Block	Central Street, corner of South Court Street	Haverhill	5/15/1980
HAV0065	Bath-Haverhill Covered Bridge	North Court Street./Monroe Road over Ammonoosuc R.	Haverhill	4/18/1977
HAV0129	Daniel Carr House	Brier Hill Road	Haverhill	3/27/1992
HAV0130	Haverhill Corner Historic District	along Rt. 10, Piermont line to bisection of Rt. 25	Haverhill	8/27/1987
HEB0003	Grange Hall	8 Church Lane	Hebron	3/7/1985
HEB0004	Hebron Academy	7 School Street	Hebron	3/7/1985
HEB0005	The Parsonage	34 North Shore Road	Hebron	3/7/1985
HEB0006	Memorial Chapel (Town Offices) & Grange Hall	8 Church Lane	Hebron	3/7/1985
HEB0014	Meadow Wind	41 North Shore Road	Hebron	3/7/1985
HEB0015	Elliot House	6 Hobart Hill Road	Hebron	3/7/1985
HEB0016	Powers House & E. Adams Study	14 Church Lane	Hebron	3/7/1985
HEB0017	Noyes House	2 Church Lane	Hebron	3/7/1985
HEB0018	Hebron Common	North Shore Road	Hebron	3/7/1985
HEB0019	Gurney House	7 Groton Road	Hebron	3/7/1985
HEB0020	Hebron Village Store	7 North Shore Road	Hebron	3/7/1985
HEB0021	Hebron Village Cemetery	Church Lane	Hebron	3/7/1985
HEB0022	Adams House/Post Office	5 School Street	Hebron	3/7/1985
HEB0023	Hazelton House	23 West Shore Road	Hebron	3/7/1985
HEN0018	Henniker Town Hall	Depot Hill Road	Henniker	2/21/1981
HHL0007	Murray Hill Summer Home District	Murray Hill Road	Hill	3/17/1988
HHL0008	Hill Center Church	Hill Center Road	Hill	9/12/1985
HIL0015	Governor John Butler Smith House/ Community Building	29 School Street	Hillsborough	9/14/2002
HIL0016	Union Chapel	220 Sawmill Road	Hillsborough	2/3/2009
HIL0036	Jonathan Barnes House	593 Center Road	Hillsborough	3/1/1982
HIL0037	Contoocook Mills Industrial District	Mill Street	Hillsborough	12/12/1985
HIL0038	Contoocook Mills Industrial District	Mill Street	Hillsborough	6/10/1975

HIL0039	Hillsborough Covered Railroad Bridge	Adjacent to NH Route 149	Hillsborough	6/10/1975
HIL0040	Franklin Pierce Homestead	301 Second NH Turnpike	Hillsborough	10/15/1966
HIN0019	Holman & Merriman Machine Shop	63 Canal Street	Hinsdale	12/11/2007
HIN0026	Todd Block	14 Main Street	Hinsdale	6/14/1988
HOL0046	Holderness Inn	Route 3	Holderness	12/13/1984
HOL0054	Chapel of the Holy Cross	45 Chapel Lane	Holderness	9/7/2005
HOL0055	Holderness Free Library	Junction of Rte. 3 and Rte. 113	Holderness	3/7/1985
HOL0056	North Holderness Freewill Baptist Church-Holderness Historical Society Building	Owl Brook Road	Holderness	9/4/1986
HOL0057	Rockywold-Deephaven Camps	Pinehurst Road	Holderness	6/14/2013
HOL0058	Webster Estate	NH Route 113	Holderness	6/9/1989
HOL0059	Trinity Church	Churchyard Cemetery, Route 175	Holderness	9/7/1984
HOL0060	Shepard Hill Historic District	Shepard Hill Road, Asquam Road, Coxboro Road	Holderness	10/8/2014
HOL0066	Chocorua Island Chapel	40 Chocorua Island	Holderness	9/20/2016
HLL0016	"The Block"	22-24 Main Street	Hollis	3/2/2001
HLL0017	Goodhue-Eastman House	2-4 Main Street	Hollis	3/2/2001
HLL0018	Congregational Church	3 Monument Square	Hollis	3/2/2001
HLL0022	Moses Smith Barn Foundation	2 Ash Street	Hollis	3/2/2001
HLL0023	Old Lorden Office	20 Ash Street	Hollis	3/2/2001
HLL0027	Central Schoolhouse	55 Broad Street	Hollis	3/2/2001
HLL0028	Grain Store	59 Broad Street	Hollis	3/2/2001
HLL0029	Spaulding House	60 Broad Street	Hollis	3/2/2001
HLL0066		11 Main Street	Hollis	3/2/2001
HLL0067	Gould House	28 Main Street	Hollis	3/2/2001
HLL0068	Buttonwood Farm/Cutter House	43 Main Street	Hollis	3/2/2001
HLL0069	Fisk House	54 Main Street	Hollis	3/2/2001
HLL0104	Peter Powers Site	8 Silver Lake Road	Hollis	3/2/2001
HLL0152	Nichols, Marion, Summer Home (The Lodge)	56 Love Lane	Hollis	12/10/2003
HLL0153	The Meeting House	2 Cleasby Lane, Monument Square	Hollis	3/11/1982
HLL0154	Hollis Village Historic District	Parts of Ash St., Broad St., Cleasby Lane, more	Hollis	3/2/2001
HOK0002	Robie's Country Store	9 Riverside Street	Hooksett	8/31/2000
HOP0001	Contoocook Railroad Depot	896 Main Street	Hopkinton	3/16/2006
HOP0002	Stanley Tavern	371 Main Street	Hopkinton	9/7/2005
HOP0010	William H. Long Memorial	300 Main Street	Hopkinton	7/15/1977
HOP0011	Rowell's Covered Bridge	Clement Hill Road	Hopkinton	11/21/1976
HOP0012	Hopkinton Railroad Covered Bridge	NH 103 and NH 127	Hopkinton	1/11/1980
HUD0030	Hills Memorial Library	18 Library Street	Hudson	6/7/1984
HUD0065	G.O. Sanders House	10 Derry Street	Hudson	2/27/1986
HUD0106	Hills House "Alvirne"	211 Derry Road	Hudson	4/8/1983
JAC0001	Eagle Mountain House	Carter Notch Road (Route 16B), west side	Jackson	12/6/1990
JAC0008	Jackson Falls National Register Historic District	parts of Jackson Village Rd. and 5 Mile Circuit Rd	Jackson	3/12/2003
JAF0205	Jaffrey Mills/White Brothers Cotton Mill	10 Main Street (corner of Main & North Sts)	Jaffrey	8/10/1982
JAF0513	Jaffrey Center Historic District	Main Street	Jaffrey	6/11/1975
JAF0514	Downtown Jaffrey NR Historic District	Route 124	Jaffrey	6/14/2002

JEF0027	Waumbek Cottages District	Cottage Road and Starr King Road	Jefferson	3/15/2006
KEE0020	Noah Cooke House and Archeological Site	143 Daniels Hill Road	Keene	4/23/1973
KEE0182	Stone Arch Bridge, Cheshire Railroad	Cheshire Railroad over the Branch River, mm 89.41	Keene	8/14/2012
KEE0184	Beaver Mills	93 and 101-129 Railroad Street	Keene	12/9/1999
KEE0194	Sawyer Tavern	63 Arch Street	Keene	5/15/1980
KEE0233	Dr. Daniel Adams House	324 Main Street	Keene	6/8/1989
KEE0235	Colony's Block	4-7 Central Square	Keene	3/24/1984
KEE0236	Colony House	104 West Street	Keene	9/9/2005
KEE0237	Dinsmoor-Hale House	Southwest Corner of Main & Winchester St. Rotary	Keene	4/26/1976
KEE0238	Elliot Mansion	305 Main Street	Keene	4/30/1976
KEE0239	Catherine Fiske Seminary for Young Ladies	251 Main Street	Keene	5/3/1976
KEE0240	Grace Methodist Episcopal Church	34 Court Street	Keene	3/7/1985
KEE0241	United Church of Christ	25 Central Square	Keene	3/9/1982
KEE0242	Wyman Tavern	339 Main Street	Keene	4/3/1972
KEE0243	Cheshire County Courthouse	12 Court Street	Keene	12/13/1978
KEN0002	Union Meeting House/Universalist Church	97 Amesbury Road	Kensington	2/13/2013
KEN0004	Kensington Town House	95 Amesbury Road	Kensington	4/9/2013
KEN0005	North School	63 Amesbury Road	Kensington	2/13/2013
KIN0103	First Universalist Church	Main Street, corner of Ronnie Lane	Kingston	12/26/1979
KIN0104	Josiah Bartlett House	West side of Main Street opposite Town Hall	Kingston	11/11/1971
KIN0105	Nichols Memorial Library	Main Street at corner of Depot Road	Kingston	1/28/1981
KIN0106	Sanborn Seminary	178 Main Street	Kingston	3/15/1984
LAC0016	Ossian Wilbur Goss Reading Room	188 Elm Street	Laconia	9/4/1986
LAC0171	John W. Busiel House/St. Joseph Rectory	30 Church Street	Laconia	9/19/1994
LAC0656	United Baptist Church of Lakeport	23 Park Street	Laconia	6/6/1985
LAC0661	Evangelical Baptist Church	Veteran Square	Laconia	9/12/1985
LAC0667	Belknap-Sulloway Mill	Mill Street	Laconia	1/25/1971
LAC0668	Busiel-Seeburg Mill	Mill Street	Laconia	1/25/1971
LAC0669	Endicott Rock	Weirs Channel, Weirs Beach	Laconia	5/28/1980
LAC0670	Federal Building	719 Main Street	Laconia	11/25/2011
LAC0671	Gale Memorial Library	695 Main Street	Laconia	9/12/1985
LAC0672	Laconia Passenger Station	Veterans Square	Laconia	1/11/1982
LAC0673	United States Post Office	33 Church Street	Laconia	7/18/1986
LAC0674	Laconia District Court	Academy Square	Laconia	11/9/1982
LAC0675	New Hampshire Veterans' Association Historic District	Lakeside Avenue	Laconia	5/22/1980
LAN0008	William D. Weeks Memorial Library	128 Main Street	Lancaster	12/1/2000
LAN0025	Weeks Estate	Route 3, east side, 2.3 miles south of Lancaster	Lancaster	6/6/1985
LAN0031	Garland Mill	Garland Road	Lancaster	11/12/1982
LAN0032	United States Post Office	120 Main Street	Lancaster	7/17/1986
LAN0033	Mount Orne Covered Bridge	Across Connecticut River from NH Rt. 135	Lancaster	12/12/1976
LAN0034	Wilder-Holton House	226 Main Street	Lancaster	6/11/1975
LAG0002	Cold River Covered Bridge	East of Langdon on McDermott Road	Langdon	5/17/1973
LAG0003	Prentiss Bridge (Drewsville Bridge)	Off Old Cheshire Turnpike Road	Langdon	5/24/1973

LEB0325	Colburn Park Historic District	Park Street area	Lebanon	1/10/1986
LEB0326	Spring Hill Farm	263 Meridan Road	Lebanon	6/13/2002
LEB0327	Stone Arch Underpass	Glen Road (apprx. .5 mi from Rts. 4 and 12A)	Lebanon	9/12/1985
LEM0002	Universalist Chapel at East Lempster	3 2nd NH Turnpike	Lempster	12/12/2006
LEM0050	Lempster Meeting House/ Union Hall	929 Route 10	Lempster	9/8/1980
LIS0738	Lisbon Inn	230 Main Street	Lisbon	12/1/1980
LTL0015	Edward H. Lane Residence	16 Cottage Street	Littleton	12/8/1980
LTL0017	US Post Office - Littleton	165 Main Street	Littleton	7/17/1986
LTL1002	Littleton Town Building (Littleton Opera House)	1 Union Street	Littleton	5/7/1973
LTL1003	Thayer's Hotel	136 Main Street	Littleton	3/9/1982
LON0564	General Mason J. Young House	4 Young Road	Londonderry	2/27/1986
LOU0407	Loudon Town Hall	433 Clough Hill Road	Loudon	9/5/1990
LME0010	Lyme Center Historic District	34-55 Dorchester Road	Lyme	3/31/1986
LME0011	Lyme Common Historic District	vicinity of Town Common	Lyme	9/1/1988
LYN0001	Citizens' Hall	Citizens' Hall Road	Lyndeborough	12/9/1999
LYN0005	Lyndeborough Center Historic District	Center Road	Lyndeborough	6/7/1984
MDI0007	Joy Farm	Salter Hill Road	Madison	11/11/1971
MDI0012	Madison Corner School/ District Number 1	Route 113	Madison	12/11/1980
MAN0032	Valley Cemetery	Pine and Auburn Streets	Manchester	9/10/2004
MAN0100	Roger Sullivan House	168 Walnut Street	Manchester	3/10/2004
MAN0160	Smyth Tower	718 Smyth Road	Manchester	7/24/1978
MAN0171	Harrington-Smith Block	18-52 Hanover Street	Manchester	1/28/1987
MAN0173	New Hampshire State Union Armory	60 Pleasant Street	Manchester	8/10/1982
MAN0175	Old Post Office Block	54-72 Hanover Street	Manchester	12/1/1986
MAN0481	Stark Park	River Road at Park Avenue	Manchester	6/14/2006
MAN1086	Smith and Dow Block	1426-1470 Elm Street	Manchester	12/13/2002
MAN1150		418-420 Notre Dame Avenue	Manchester	12/20/1996
MAN1232	Amoskeag Manufacturing Company Housing District A	Bedford, State, Granite, & W. Pleasant Streets	Manchester	11/12/1982
MAN1233	Amoskeag Manufacturing Company Housing District B	Canal, Mechanic, Franklin, & Pleasant Streets	Manchester	11/12/1982
MAN1234	Amoskeag Manufacturing Company Housing District C	Hollis, Bridge, Canal, & S. Hampshire Lane	Manchester	11/12/1982
MAN1235	Amoskeag Manufacturing Company Housing District D	W. Brook, Langdon, & Canal Streets	Manchester	11/12/1982
MAN1236	Amoskeag Manufacturing Company Housing District E	258-322 McGregor Street	Manchester	11/12/1982
MAN1237	Ash Street School	101 Ash Street	Manchester	5/30/1975
MAN1238	Athen's Building (Palace Theater)	76-96 Hanover Street	Manchester	5/30/1975
MAN1239	Carpenter and Bean Block	1382-1414 Elm Street	Manchester	12/13/2002
MAN1240	Frank Pierce Carpenter House	1800 Elm Street	Manchester	3/17/1994
MAN1241	Currier Gallery of Art	192 Orange Street	Manchester	12/19/1979
MAN1242	Dunlap Building	967 Elm Street	Manchester	6/9/2004
MAN1243	Hill-Lassonde House	269 Hanover Street	Manchester	12/2/1985
MAN1244	Hoyt Shoe Factory	477 Silver Street	Manchester	11/7/1985
MAN1245	Hubbard-Varney House	220 Myrtle Street	Manchester	3/8/1988
MAN1246	Kimball Brothers Shoe Factory	335 Cypress Street	Manchester	11/7/1985
MAN1247	Manchester City Hall	908 Elm Street	Manchester	6/13/1975

MAN1248	St. George's School and Convent	521 Pine Street	Manchester	9/12/1985
MAN1249	General John Stark House	2000 Elm Street	Manchester	6/29/1973
MAN1250	Varney School	84 Varney Street	Manchester	1/11/1982
MAN1251	Victory Park Historic District	405 Pine St, 148 Concord St, 112 & 129 Amherst St.	Manchester	6/3/1996
MAN1252	Weston Observatory	Louis Isreal Martel Drive	Manchester	5/28/1975
MAN1253	Zimmerman House	223 Heather Street	Manchester	10/18/1979
MAN1254	Alpheus Gay House/ Bowen House	184 Myrtle Street	Manchester	3/9/1982
MAN1255	William Parker Straw House	282 River Road	Manchester	12/8/1987
MRL0013	Jones Hall	Church Street	Marlow	6/7/1984
MRD0320	Oak Hill Meetinghouse	Winona Road	Meredith	12/1/1986
MRD0323	Meredith Public Library	50 Main Street	Meredith	12/13/1984
MER0165	McClure-Hilton House	16 Tinker Road	Merrimack	12/1/1989
MER0166	The Signer's House and Matthew Thornton Cemetery	304 Daniel Webster Highway (W&E sides of Hwy)	Merrimack	12/22/1978
MIL0037	Milford Town Hall	1 Union Square and Nashua Street	Milford	12/1/1988
MIL0106	Milford Suspension Bridge	over Souhegan Riv btwn Souhegan St. and Pine St.	Milford	7/17/2017
MIL0107	Hillsborough Mills	37 Wilton Street	Milford	6/14/2013
MIL0108	Milford Cotton and Woolen Manufacturing Company	40 Bridge Street	Milford	8/18/1982
MIL0109	William Peabody House	97 North River Road	Milford	11/30/1979
MLT0006	Milton Town House	Townhouse Road	Milton	11/26/1980
MLT0011	Plummer Jones Farm	1305 White Mountain Hwy	Milton	3/23/1979
MLT0012	Plummer Homestead	1273 White Mountain Highway	Milton	6/14/2002
MTV0006	Lamson Farm	Lamson Road	Mont Vernon	2/24/1981
MOU0011	Moultonborough Town House	951 Whittier Hwy	Moultonborough	12/1/1989
MOU0030	Castle in the Clouds / Lucknow	455 Old Mountain Road	Moultonborough	7/5/2018
MOU0034	Freese's Tavern	Main Street, corner of Routes 25 & 109	Moultonborough	4/29/1982
MOU0035	Swallow Boathouse	Windward	Moultonborough	8/26/1980
MOU0036	Windermere	Long Island	Moultonborough	11/14/1979
NAS0003	Abbot-Spalding House Museum	1 Nashville Street/1 Abbot Square	Nashua	4/17/1980
NAS0103	Killicut-Way House	2 Old House Road	Nashua	11/1/1989
NAS0116	LaBombarde Estate	160 Daniel Webster Highway	Nashua	1/1/1984
NAS1171	Hillsborough County Courthouse	19 Temple Street	Nashua	6/6/1985
NAS1172	Hunt Memorial Library	6 Main Street	Nashua	6/28/1971
NAS1173	Nashua Gummed & Coated Paper Company District	34,44,45 Franklin St, 21,25 30 Front St.	Nashua	12/22/2015
NAS1175	Nashville Historic District		Nashua	12/13/1984
NAS1176	George Stark House	22 Concord Street	Nashua	11/25/1980
NEL0003	Old Nelson Schoolhouse, District #1	7 Nelson Common Road	Nelson	4/23/1973
NWC0009	Portsmouth Harbor Lightstation	Access Road, US Coast Guard Station	New Castle	10/8/2009
NWC0012	Fort Constitution	Walbach Street	New Castle	7/9/1973
NWD0003	Free Will Baptist Church	56 Ridge Road	New Durham	11/13/1980
NWD0004	Old Town Meetinghouse and Pound	207 Old Bay Road	New Durham	12/8/1980
NWD0005	New Durham Town Hall	4 Main Street	New Durham	11/13/1980
NWH0005	Washington Mooney House	Routes 104 and I-93	New Hampton	9/4/1997
NWH0008	Dana Meeting House	Dana Hill Road	New Hampton	12/13/1984

NWH0010	New Hampton Town House	Town House Road	New Hampton	3/23/1998
NWH0011	New Hampton Community Church	Main Street	New Hampton	3/7/1985
NWH0015	Gordon-Nash Library	Main Street	New Hampton	9/15/1988
NWI0005	New Ipswich Center Village Historic District	Turnpike, Porter Hill, Main, 123A	New Ipswich	9/3/1991
NWI0006	New Ipswich Town Hall	160 Main Street	New Ipswich	12/13/1984
NWL0002	Baptist New Meeting House	461 Main Street	New London	12/22/2005
NWL0010	The Dr. Solomon M. Whipple House	356 Main Street	New London	9/12/1985
NBR0014	Center Meetinghouse	945 NH-103	Newbury	12/19/1979
NBR0015	Hay Estate/ The Fells	456 NH Route 103A	Newbury	11/2/2000
NWN0002	Margeson, Richman, Estate	Long Point Rd.	Newington	6/21/1990
NWN0013	Newington Center Historic District	272-336, 305-353 Nimble Hill Road	Newington	11/30/1987
NWN0014	Newington Center Historic District (Boundary Increase)	Merrimac Drive north of Short Street	Newington	12/9/1991
NWN0168	Newington Depot/Toll House	0.06 mi. south of the end of River Rd, East side	Newington	4/19/2010
NWM0024	Stone School	Granite Street	Newmarket	7/12/1978
NWM0025	Newmarket Industrial and Commercial Historic District		Newmarket	12/1/1980
NWP0084	Newport Downtown Historic District	2-66, 35-48 North Main St.; 17 Depot St, Depot Sq.	Newport	6/6/1985
NWP0085	Little Red School House 1835 District #7	NH Route 10, 2 miles south of Newport	Newport	12/1/1980
NWP0086	Nettleton House	26-30 Central Street	Newport	11/16/1977
NWP0087	Pier Bridge	3 mi west of Newport off Chandlers Mill Road	Newport	6/10/1975
NWP0088	Isaac Reed House	30-34 Main Street	Newport	7/19/1978
NWP0089	Richards Free Library	58 North Main Street	Newport	9/7/1984
NWP0090	Sullivan County Court House	Court Square	Newport	6/25/1973
NWP0091	South Congrational Church	58 South Main Street	Newport	3/30/1989
NWP0092	Town Hall and Courthouse	20 Main Street	Newport	2/29/1980
NWP0093	Wright's Covered Railroad Bridge	E of Claremont, Sugar River on Chandler Mill Road	Newport	6/10/1975
NWP0108	Dexter Richards & Sons Woolen Mill	169 Sunapee Street	Newport	1/17/2017
NHA0001	Centennial Hall	105 Post Road	North Hampton	4/5/2016
NHA0003	North Hampton Town Hall	231 Atlantic Avenue	North Hampton	2/13/2013
NHA0007	North Hampton Town Library	237 Atlantic Avenue	North Hampton	2/5/2014
NHA0016	Drake Farm	148 Lafayette Road	North Hampton	9/20/2016
NHA0017	Little Boar's Head Historic District	multiple streets	North Hampton	6/3/1999
NRF0108	Hall Memorial Library	18 Park Street	Northfield	10/4/1978
NRF0109	Memorial Arch of Tilton	Memorial Street	Northfield	5/19/1980
NRF0110	Northfield Union Church	Sondogardy Pond Road	Northfield	3/15/1984
NOR0156	Congregational Church	RT 4,S SIDE, .7 MI E HARVEY LAKE RD	Northwood	11/30/1979
NOT0021	Dame School	NH Route 152	Nottingham	10/30/1980
NOT0022	Dame School	NH Route 152	Nottingham	10/30/1980
NOT0023	Square Schoolhouse	Corner of Route 156 and Ledge Farm Road	Nottingham	4/17/1980
ORF0011	Orford Street Historic District	Orford Street (Rte. 10)	Orford	8/26/1977
ORF0012	The Samuel Morey Memorial Bridge	NH Rte. 25A over Connecticut River	Orford	12/8/1997
OSS0012	Carroll County Courthouse	Route 171	Ossipee	9/12/2007
OSS0018	Early Settlers Meeting House	Granite Road, Leighton's Corner	Ossipee	6/12/1995
OSS0025	First Free Will Baptist Church	Granite Road	Ossipee	3/15/1984

OSS0034	Whittier Bridge	Old Rt. 25/Covered Bridge Road	Ossipee	3/15/1984
PEL0011	Pelham Library and Memorial Building	5 Main Street	Pelham	4/15/2011
PEM0043	The Jacob Noyes Block/Keeler Block	48 Glass Street	Pembroke	2/27/1986
PEM0044	The Pembroke Mill	100 Main Street	Pembroke	9/12/1985
PEM0045	Suncook Village Commercial/Civic Historic District	Glass, Main, Mill Falls, Union Streets	Pembroke	3/15/2005
PET0037	All Saints' Church	51 Concord Street	Peterborough	12/1/1980
PET0038	MacDowell Colony	High Street	Peterborough	10/15/1966
PET0039	Peterborough Town House	1 Grove Street	Peterborough	2/29/1996
PET0040	Peterborough Unitarian Church	25 Main Street	Peterborough	4/23/1973
PET0041	U.S. Post Office, Peterborough Main	23 Grove Street	Peterborough	7/17/1986
PIE0003	Piermont Bridge (032/103)	Route 25 over Connecticut River	Piermont	6/6/2001
PIE0005	Sawyer-Medlicott House	corner of Bradford and River Roads	Piermont	12/6/1991
PIT0012	Indian Stream Schoolhouse District 1	Tabor Road	Pittsburg	10/11/2011
PTF0009	Pittsfield Center Historic District	Main, Depot, Blake, Carroll, Chestnut, Streets	Pittsfield	12/12/1980
PLA0001	Blow-Me-Down-Grange	1071 Route 12A	Plainfield	3/2/2001
PLA0002	Meriden Town Hall	110 Main Street	Plainfield	12/24/1998
PLA0005	Plainfield Town Hall	Route 12A	Plainfield	6/6/1985
PLA0006	Mothers' and Daughters' Club House	Main Street (Route 12A)	Plainfield	3/11/1982
PLA0007	Meriden Bridge	NH Route 120 at Colby Hill Rd. and Mill Hollow	Plainfield	8/27/1980
PLI1015	Plaistow Carhouse (Trolley Barn)	27 Elm Street	Plaistow	12/10/1980
PLY0027	Old Grafton County Courthouse (Plymouth Public Library)	1 Court Street	Plymouth	4/29/1982
PLY0028	Plymouth Historic District	Bounded by Main, Highland and Court Streets	Plymouth	3/14/1986
POR0008	Peoples Baptist Church	45 Pearl Street	Portsmouth	9/13/2003
POR0134	Atlantic Heights Development	Concord, Crescent, Falkland, Raleigh, Saratog Way	Portsmouth	9/20/2016
POR0135	Samuel Beck House	407 Deer Street	Portsmouth	4/3/1973
POR0136	Benedict House	30 Middle Street	Portsmouth	5/11/1973
POR0137	Jeremiah Hart House	The Hill	Portsmouth	11/14/1972
POR0138	Phoebe Hart House	The Hill	Portsmouth	4/2/1973
POR0139	John Hart House	The Hill	Portsmouth	11/14/1972
POR0140	Haven/White House	229 Pleasant Street	Portsmouth	6/6/1985
POR0141	Richard Jackson House	Northwest Street	Portsmouth	11/24/1968
POR0142	Governor John Langdon Mansion Memorial	143 Pleasant Street	Portsmouth	12/2/1974
POR0143	Larkin-Rice House	180 Middle Street	Portsmouth	11/29/1979
POR0144	Wentworth-Gardner and Tobias Lear Houses	Corner of Mechanic and Gardner Streets	Portsmouth	10/30/1979
POR0145	Moffatt-Ladd House	154 Market Street	Portsmouth	11/24/1968
POR0146	James Neal House	The Hill	Portsmouth	8/7/1972
POR0147	New Hampshire Bank Building	22-26 Market Square	Portsmouth	9/10/1979
POR0148	Nutter-Rymes House	The Hill	Portsmouth	11/3/1972
POR0149	Old North Cemetery	Maplewood Avenue	Portsmouth	3/8/1978
POR0150	Daniel Pinkham House	The Hill	Portsmouth	11/3/1972
POR0151	General Porter House	32-34 Livermore Street	Portsmouth	10/11/1985
POR0152	Portsmouth Athenaeum	9 Market Square	Portsmouth	5/24/1973
POR0153	Portsmouth Cottage Hospital	Junkins Avenue	Portsmouth	9/13/1996

POR0154	Portsmouth Public Library	8 Islington Street	Portsmouth	3/20/1973
POR0155	Rockingham Hotel	401 State Street	Portsmouth	3/11/1982
POR0156	Rundlet-May House	364 Middle Street	Portsmouth	6/7/1976
POR0157	George Rogers House	76 Northwest Street	Portsmouth	6/7/1976
POR0158	St. John's Church	105 Chapel Street	Portsmouth	1/31/1978
POR0159	Henry Sherburne House	62 Deer Street	Portsmouth	8/7/1972
POR0160	Simeon P. Smith House	The Hill	Portsmouth	11/14/1972
POR0161	South Parish	292 State Street	Portsmouth	8/21/1979
POR0162	South Meetinghouse	Corner of Marcy Street and Meeting House Hill Road	Portsmouth	4/19/1982
POR0163	Strawbery Banke Historic District	Bounded by Court, Marcy, Hancock & Washington Sts.	Portsmouth	6/20/1975
POR0164	Governor John Wentworth House	346 Pleasant Street	Portsmouth	6/29/1973
POR0165	Wentworth-Coolidge Mansion	Little Harbor Road	Portsmouth	11/24/1968
POR0166	Whidden-Ward House	The Hill	Portsmouth	11/5/1971
POR0167	Hart-Rice House	The Hill	Portsmouth	8/7/1972
POR0168	MacPhaedris-Warner House	150 Daniel Street (corner of Chapel and Daniel)	Portsmouth	10/15/1966
POR0169	John Paul Jones House	Middle and State Streets	Portsmouth	11/28/1972
POR0170	Shapley Town House (Kelly Property)	454-456 Court Street	Portsmouth	2/28/1973
POR0171	Franklin Block	75 Congress Street	Portsmouth	6/7/1984
POR0172	USS Albacore, (AGSS-569)	Portsmouth Maritime Museum	Portsmouth	4/11/1989
POR0173	Wentworth-Gardner House	140 Mechanic Street	Portsmouth	11/24/1968
POR0174	Portsmouth Downtown Historic District	multiple locations	Portsmouth	6/19/2017
RAY0025	Raymond Boston & Maine Railroad Depot	Main St.	Raymond	5/16/1979
RIC0012	Richmond Community Church	3 Fitzwilliam Road	Richmond	3/24/1983
RIC0013	Veteran's Memorial Hall	150 Old Homestead Highway	Richmond	9/4/1986
RIC0014	Richmond Town Hall	105 Old Homestead Highway	Richmond	12/19/1979
RIC0015	Richmond Schoolhouse No. 6	19 Winchester Road	Richmond	11/25/1980
RIN0013	Second Rindge Meetinghouse, Horse Sheds and Cemetery	Rindge Common	Rindge	10/5/1979
ROC0008	Jenness Farm	626 Pickering Road	Rochester	3/2/2001
ROC0115	Rochester Commercial & Industrial Historic District	North Main, Wakefield, Hanson, South Main Streets	Rochester	4/8/1983
ROC0116	Richard Hayes House	184 Gonic Road	Rochester	2/27/1986
ROL0007	Rollinsford Town Hall	667 Main Street	Rollinsford	3/5/1999
ROL0008	Rollinsford Grade School	487 Locust Street	Rollinsford	9/29/2015
ROL0009	Salmon Falls Mill Historic District	Main & Front Streets	Rollinsford	2/29/1980
ROX0003	Buckminster-Kingsbury Farm	80 Houghton Ledge Road	Roxbury	12/30/2011
RYE0002	St. Andrews By-The-Sea	Church Road	Rye	12/13/2001
RYE0020	Beach Club	2450 Ocean Boulevard	Rye	12/24/2013
RYE0021	Elijah Locke House	5 Grove Road	Rye	12/19/1979
RYE0022	Parson's Homestead	520 Washington Rd	Rye	12/3/1980
SAL0225	Salem Common Historic District	304, 310, 312 Main Street	Salem	4/15/2011
SLS0035	Salisbury Academy	9 Old Coach Road	Salisbury	5/30/1975
SAN0002	Bay Meetinghouse	Upper Bay Road	Sanbornton	6/7/1984
SAN0004	Sanbornton Congregational Church	Meetinghouse Hill Road	Sanbornton	12/8/1980
SND0001	Old Meeting House	27 Freemont Road	Sandown	8/9/1978

SND0002	Sandown Depot Railroad Station	6 Depot Road	Sandown	9/4/1986
SWH0001	North Sandwich Friends Meeting House	Quaker-Whiteface Road	Sandwich	6/5/1986
SWH0003	Baptist Church	Church Street, Center Sandwich	Sandwich	12/22/1983
SWH0004	Methodist Church	Main Street, Center Sandwich	Sandwich	12/22/1983
SWH0014	Durgin Bridge	Durgin Bridge Road	Sandwich	9/22/1983
SWH0015	Center Sandwich Historic District	Skinner,Grove,Church,Maple,Main Streets	Sandwich	12/22/1983
SWH0016	Hansen's Annex	Main Street	Sandwich	9/22/1983
SWH0017	Bradbury Jewell House	Ferncroft Road	Sandwich	8/27/1986
SWH0018	Lower Corner Historic District	Route 109	Sandwich	12/1/1986
SWH0019	Town Hall	Maple Street	Sandwich	5/15/1980
SGP0005	Tip-Top House	Mt. Washington State Park,Summit of Mt. Washington	Sargent's Purchase	1/11/1982
SHA0001	Brick Schoolhouse	432 Route 123	Sharon	9/14/2002
SHE0002	Meadow Bridge (122/110)	Former North Road over Androscoggin River	Shelburne	12/10/2003
SHE0230	Philbrook Farm Inn	North Road	Shelburne	3/15/1984
SOM0049	Green Street School/Union School	104 Green Street	Somersworth	3/7/1985
SOM0325	Forest Glade Cemetery	163 Maple Street	Somersworth	1/17/2017
SOM0327	Lehoullier Building	161-169 Main Street	Somersworth	12/26/1979
SOM0328	Queensbury Mill	1 Market Street	Somersworth	4/10/1987
SOM0329	US Post Office- Somersworth Main	2 Government Way	Somersworth	7/17/1986
SOM1022	Somersworth High School	17 Grand Street	Somersworth	9/29/2015
SHM0003	Currier, Capt. Jonathan, House	Hilldale Avenue at Intersection with Currier St.	South Hampton	4/11/1983
SHM0004	Highland Road Historic District	Highland and Woodman Rds.	South Hampton	4/11/1983
SHM0005	Jewell Town Historic District	W. Whitehall Road and Jewell Street	South Hampton	4/11/1983
SHM0006	Smith's Corner Historic District	Main Ave, South, Stagecoach, Chase Roads	South Hampton	4/11/1983
SHM0007	Town Center Historic District	Main, Hilldale Avenues and Jewell Street	South Hampton	4/11/1983
SHM0008	Woodman Road Historic District	Woodman Road	South Hampton	4/11/1983
SPR0003	Springfield Town Hall & Howard Memorial Methodist Church	Four Corners Road	Springfield	6/5/1986
SPR0004	Protectworth Tavern	Route 4A (Fourth New Hampshire Turnpike)	Springfield	11/25/1980
STA0008	Stark Covered Bridge	Intersection of NH Rte 110 and Northside Road	Stark	12/1/1980
STA0009	Stark Union Church	Stark Village	Stark	12/8/1983
STF0002	Strafford Union Academy, Austin Hall	11 Strafford Road	Strafford	9/22/1983
STR0013	Martin Homestead	Route 3 (west side), on town line	Stratford	10/30/1998
STM0019	Janvrin/Healey/Scammon Farm	69 Portsmouth Avenue	Stratham	4/4/2019
STM0027	George A. and Emma B. Wiggin Memorial Library	158 Portsmouth Avenue	Stratham	1/1/1993
STM0029	Bartlett-Cushman House	82 Portsmouth Avenue	Stratham	10/8/2014
STM0031	John Crocket House	245 Portsmouth Avenue	Stratham	3/24/1983
STM0032	Deacon Samuel Lane and Jabez Lane Homestead	Portsmouth Avenue	Stratham	4/8/1983
STM0033	Cornet Thomas Wiggin House	249 Portsmouth Avenue	Stratham	3/24/1983
STM0087	Emery Farm	16 Emery Lane	Stratham	9/18/2018
SUT0002	Harvey, Matthew House (Muster Field Farm)	85 HARVEY ROAD	Sutton	9/4/1992
SUT0003	Pillsbury Memorial Hall (Sutton Town Hall)	93 Main Street	Sutton	3/4/1993
SUT0004	South Sutton Meeting House	17 Meeting House Hill Road	Sutton	5/27/1993
SWA0056	Golden Rod Grange #114	625 Old Homestead Highway	Swanzey	3/17/1994

SWA0070	Carleton Covered Bridge	86 Carlton Road	Swanzey	6/10/1975
SWA0071	Sawyer's Crossing Covered Bridge	181 Sawyer's Crossing Road	Swanzey	11/14/1978
SWA0072	Slate Covered Bridge	Westport Village Road	Swanzey	11/14/1978
SWA0073	West Swanzey Covered Bridge	96 Main Street	Swanzey	2/29/1980
TAM0014	Enoch Remick House	4 Great Hill Road	Tamworth	6/3/1996
TAM0022	Chocorua Lake Basin Historic District	Chocorua Lake Road (Rt.16) and others	Tamworth	6/9/2005
TAM0023	Cook Memorial Library	Main Street	Tamworth	6/25/1980
TEM0001	Temple Town Hall	Main Street	Temple	6/12/2007
TEM0005	The Birchwood Inn	340 NH-45	Temple	6/6/1985
TIL0004	Northfield-Tilton Coungregational Church	193 Main Street	Tilton	7/7/1983
TIL0005	Trinity Episcopal Church	186-190 Main Street	Tilton	7/7/1983
TIL0024	The House by the Side of the Road	61 School Street	Tilton	11/26/1980
TIL0025	Tilton Island Park Bridge	Tilton Island Park	Tilton	3/21/1980
TIL0026	Tilton Downtown Historic District	Main Stree, 160-190 (even #s), 135-219 (odd #s)	Tilton	7/7/1983
TIL0027	Charles E. Tilton Mansion	School Street	Tilton	8/10/1982
TRO0204	Lawrence Farm	9 Lawrence Road	Troy	6/9/2000
TRO0284	Waterhouse/Russell House	20 Central Square	Troy	12/13/2002
TUF0001	Tuftonboro United Methodist Church	Route 171	Tuftonboro	6/16/1997
UNI0004	Unity Town Hall	approx. 580 ft n of Center Rd/2nd NH Trnpk Int.	Unity	6/6/1985
WAK0001	Wakefield Town Hall	2 High Street	Wakefield	6/12/2007
WAK0006	Episcopal Church of St. John the Baptist	High Street, Sanbornville	Wakefield	6/7/1984
WAK0015	Wakefield Village Historic District	Mountain Laurel Road and Route 153	Wakefield	3/15/1984
WAK0016	Wakefield House	Wakefield Triangle, Route 153	Wakefield	6/23/1983
WAK0017	Wakefield Public Library	Mountain Laurel Road	Wakefield	9/8/1983
WAK0018	Union Hotel	Main Street (corner of Chapel Street)	Wakefield	12/1/1989
WAK0020	District No. 2 Schoolhouse	NH Route 153, .5 miles east of Route 16	Wakefield	10/3/1980
WAL0010	Drewsville Mansion	Old Cheshire Turnpike	Walpole	9/13/1996
WAL0012	Peck-Porter House/Margaret Porter House	27 Main Street	Walpole	8/31/2000
WAL0021	Stephen Rowe Bradley House	43 Westminster Street	Walpole	12/22/2005
WAL0022	Walpole Academy	32 Main Street	Walpole	5/21/1975
WAR0015	Dalton Covered Bridge	West Joppa Road	Warner	11/21/1976
WAR0016	Waterloo Covered Bridge	68 Newmarket Road	Warner	11/21/1976
WAR0017	Lower Warner Meetinghouse	232 East Main Street	Warner	5/25/1989
WAR0018	Waterloo Historic District	Waterloo, Newmarket, Bean, Willoughby-Colby Roads	Warner	9/13/2003
WAS0004	Washington Common Historic District	NH Route 31	Washington	3/14/1986
WEA0015	North Weare Schoolhouse	39 Concord Stage Road	Weare	9/6/1995
WEA0022	Amos Chase House and Mill	299 North Stark Highway	Weare	3/12/1992
WEA0023	Weare Town House	16 North Stark Highway	Weare	12/2/1985
WEA0024	Caleb Whitaker Place	47 Perkins Pond Road	Weare	8/3/1983
WEB0003	Old Webster Meeting House	1220 Battle Street	Webster	3/7/1985
WEB0004	Webster Congregational Church	1011 Long Street	Webster	3/7/1985
WES0004	Corner School / Hightops School / No. 9	River and Poocham Roads	Westmoreland	12/13/1984
WES0010	Park Hill Meetinghouse	Park Hill	Westmoreland	9/8/1980

WHI0020	Mountain View House	120 Mountain View Road	Whitefield	6/9/2004
WLM0009	North Wilmot Union Meetinghouse	Tewksbury Road	Wilmot	3/16/1989
WIL0007	Wilton Town Hall	42 Main Street	Wilton	4/20/2009
WIL0009	Hamblet-Putnam-Frye House	293 Burton Highway	Wilton	6/22/2000
WIL0025	The County Farm Bridge	Old County Farm Road	Wilton	5/14/1981
WIL0026	Daniel Cragin Mill	12 Frye Mill Road	Wilton	3/23/1982
WIL0027	Stonyfield Farm	Barrett Hill Road	Wilton	8/3/1983
WIL0028	The Wilton Public & Gregg Free Library	7 Forest Street	Wilton	1/11/1982
WIL0029	Oliver Whiting Homestead	39 Old County Farm Road	Wilton	3/9/1982
WIN0033	New Hampshire Conservatory of Music and the Arts	Michigan Street	Winchester	5/15/1980
WIN0034	Ashuelot Covered Bridge	Gunn Mountain Road	Winchester	2/20/1981
WIN0035	Conant Public Library	111 Main Street	Winchester	8/27/1987
WIN0036	Coombs Covered Bridge	976 Old Westport Road	Winchester	11/21/1976
WIN0037	Winchester Town Hall	1 Richmond Road	Winchester	8/27/1987
WND0059	Searles School and Chapel	35 Range Road (Route 111)	Windham	1/11/1982
WND0111	Windham Town Hall	3 North Lowell Road	Windham	9/11/2018
WOL0005	Libby Museum	Route 109N/Lang Road	Wolfeboro	6/29/1998
WOL0013	Wolfeboro Centre Community Church	Route 109	Wolfeboro	3/15/1984
WOL0014	Cotton Mountain Community Church	Stoneham Road	Wolfeboro	3/7/1985
WOL0024	Wolfeboro Bible Fellowship	South Main Street, South Wolfeboro	Wolfeboro	4/29/1982
WOL0055	Brewster Memorial Hall	South Main and Union Street	Wolfeboro	9/8/1983
WOL0056	Union Church	South Main Street, Route 28 South	Wolfeboro	4/29/1982
WOL0062	Pickering House	116 South Main Street	Wolfeboro	4/16/2019

ATTACHMENT 6

Section I of NOI Application

Laboratory and WQBELs calculations are attached for the discharge.

ANALYTICAL REPORT

Lab Number:	L2105226
Client:	AECOM 10 Orms St. Suite 400 Providence, RI 02904
ATTN:	Luis Ferreira
Phone:	(401) 274-5685
Project Name:	7-ELEVEN 24433
Project Number:	60617854
Report Date:	02/12/21

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

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

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2105226-01	EFFLUENT	WATER	NASHUA, NH	02/03/21 13:45	02/03/21
L2105226-02	TRIP BLANK	WATER	NASHUA, NH	02/03/21 00:00	02/03/21

Project Name:	7-ELEVEN 24433	**Lab Number:**	L2105226
Project Number:	60617854	**Report Date:**	02/12/21

Case Narrative

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

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

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

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

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

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

Project Name:	7-ELEVEN 24433	**Lab Number:**	L2105226
Project Number:	60617854	**Report Date:**	02/12/21

Case Narrative (continued)

Report Submission

February 12, 2021: This final report includes the results of all requested analyses.

February 05, 2021: This is a preliminary report.

The analysis of Ethanol and tert-Butyl alcohol was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

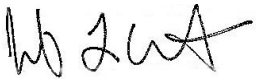
Sample Receipt

L2105226-02: A sample identified as "TRIP BLANK" was received, but not listed on the Chain of Custody. At the client's request, this sample was not analyzed.

Volatile Organics by Method 524.2

L2105226-01: The pH of the sample was greater than two; however, the sample was analyzed within the method required holding time.

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

Authorized Signature:  Jennifer L Clements

Title: Technical Director/Representative Date: 02/12/21

ORGANICS

VOLATILES

Project Name: 7-ELEVEN 24433 **Lab Number:** L2105226

Project Number: 60617854 **Report Date:** 02/12/21

SAMPLE RESULTS

Lab ID: L2105226-01 Date Collected: 02/03/21 13:45
Client ID: EFFLUENT Date Received: 02/03/21
Sample Location: NASHUA, NH Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 02/04/21 08:00
Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	1.0	--	1
1,1-Dichloroethane	ND		ug/l	1.5	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	3.5	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.5	--	1
2-Chloroethylvinyl ether	ND		ug/l	10	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	3.5	--	1
Trichlorofluoromethane	ND		ug/l	5.0	--	1
1,2-Dichloroethane	ND		ug/l	1.5	--	1
1,1,1-Trichloroethane	ND		ug/l	2.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	1.5	--	1
cis-1,3-Dichloropropene	ND		ug/l	1.5	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	5.0	--	1
Bromomethane	ND		ug/l	5.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 7-ELEVEN 24433 **Lab Number:** L2105226

Project Number: 60617854 **Report Date:** 02/12/21

SAMPLE RESULTS

Lab ID: L2105226-01 Date Collected: 02/03/21 13:45

Client ID: EFFLUENT Date Received: 02/03/21

Sample Location: NASHUA, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	5.0	--	1
1,3-Dichlorobenzene	ND		ug/l	5.0	--	1
1,4-Dichlorobenzene	ND		ug/l	5.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
Styrene	ND		ug/l	1.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
Vinyl acetate	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Acrolein	ND		ug/l	8.0	--	1
Acrylonitrile	ND		ug/l	10	--	1
Methyl tert butyl Ether	ND		ug/l	10	--	1
Dibromomethane	ND		ug/l	1.0	--	1
Tert-Butyl Alcohol	ND		ug/l	100	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	20	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	96		60-140
Fluorobenzene	90		60-140
4-Bromofluorobenzene	96		60-140

Project Name: 7-ELEVEN 24433 **Lab Number:** L2105226

Project Number: 60617854 **Report Date:** 02/12/21

SAMPLE RESULTS

Lab ID: L2105226-01
Client ID: EFFLUENT
Sample Location: NASHUA, NH

Date Collected: 02/03/21 13:45
Date Received: 02/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1-SIM
Analytical Date: 02/04/21 11:56
Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Fluorobenzene	98		60-140
4-Bromofluorobenzene	88		60-140

Project Name: 7-ELEVEN 24433 **Lab Number:** L2105226

Project Number: 60617854 **Report Date:** 02/12/21

SAMPLE RESULTS

Lab ID: L2105226-01
Client ID: EFFLUENT
Sample Location: NASHUA, NH

Date Collected: 02/03/21 13:45
Date Received: 02/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 02/04/21 12:52
Analyst: AMM

Extraction Method: EPA 504.1
Extraction Date: 02/04/21 11:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Microextractables by GC - Westborough Lab							
1,2-Dibromoethane	ND		ug/l	0.010	--	1	A
1,2-Dibromo-3-chloropropane	ND		ug/l	0.010	--	1	A
1,2,3-Trichloropropane	ND		ug/l	0.030	--	1	A

Project Name: 7-ELEVEN 24433 **Lab Number:** L2105226

Project Number: 60617854 **Report Date:** 02/12/21

SAMPLE RESULTS

Lab ID: L2105226-01
Client ID: EFFLUENT
Sample Location: NASHUA, NH

Date Collected: 02/03/21 13:45
Date Received: 02/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 16,524.2
Analytical Date: 02/03/21 21:12
Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Acetone	ND		ug/l	5.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	103		80-120
4-Bromofluorobenzene	96		80-120

Project Name: 7-ELEVEN 24433 **Lab Number:** L2105226

Project Number: 60617854 **Report Date:** 02/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 02/04/21 03:31
Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1461206-12					
Methylene chloride	ND		ug/l	1.0	--
1,1-Dichloroethane	ND		ug/l	1.5	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	3.5	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.5	--
2-Chloroethylvinyl ether	ND		ug/l	10	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	3.5	--
Trichlorofluoromethane	ND		ug/l	5.0	--
1,2-Dichloroethane	ND		ug/l	1.5	--
1,1,1-Trichloroethane	ND		ug/l	2.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	1.5	--
cis-1,3-Dichloropropene	ND		ug/l	1.5	--
Bromoform	ND		ug/l	1.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	5.0	--
Bromomethane	ND		ug/l	5.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.5	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--

Project Name: 7-ELEVEN 24433 **Lab Number:** L2105226

Project Number: 60617854 **Report Date:** 02/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 02/04/21 03:31
Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1461206-12					
1,2-Dichlorobenzene	ND		ug/l	5.0	--
1,3-Dichlorobenzene	ND		ug/l	5.0	--
1,4-Dichlorobenzene	ND		ug/l	5.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
Styrene	ND		ug/l	1.0	--
Acetone	ND		ug/l	10	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	10	--
Vinyl acetate	ND		ug/l	10	--
4-Methyl-2-pentanone	ND		ug/l	10	--
2-Hexanone	ND		ug/l	10	--
Acrolein	ND		ug/l	8.0	--
Acrylonitrile	ND		ug/l	10	--
Methyl tert butyl Ether	ND		ug/l	10	--
Dibromomethane	ND		ug/l	1.0	--
Tert-Butyl Alcohol	ND		ug/l	100	--
Tertiary-Amyl Methyl Ether	ND		ug/l	20	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	98		60-140
Fluorobenzene	91		60-140
4-Bromofluorobenzene	94		60-140

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 14,504.1
Analytical Date: 02/04/21 12:38
Analyst: AMM

Extraction Method: EPA 504.1
Extraction Date: 02/04/21 11:41

Parameter	Result	Qualifier	Units	RL	MDL	
Microextractables by GC - Westborough Lab for sample(s): 01 Batch: WG1461661-1						
1,2-Dibromoethane	ND		ug/l	0.010	--	A
1,2-Dibromo-3-chloropropane	ND		ug/l	0.010	--	A
1,2,3-Trichloropropane	ND		ug/l	0.030	--	A

Project Name: 7-ELEVEN 24433 **Lab Number:** L2105226

Project Number: 60617854 **Report Date:** 02/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1-SIM
Analytical Date: 02/04/21 11:16
Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1461749-4					
1,4-Dioxane	ND		ug/l	50	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Fluorobenzene	110		60-140
4-Bromofluorobenzene	79		60-140

Project Name: 7-ELEVEN 24433 **Lab Number:** L2105226

Project Number: 60617854 **Report Date:** 02/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 16,524.2
Analytical Date: 02/03/21 12:17
Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1461788-4					
Acetone	ND		ug/l	5.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	101		80-120
4-Bromofluorobenzene	95		80-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 7-ELEVEN 24433

Project Number: 60617854

Lab Number: L2105226

Report Date: 02/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1461206-11								
Methylene chloride	100		-		60-140	-		28
1,1-Dichloroethane	105		-		50-150	-		49
Chloroform	90		-		70-135	-		54
Carbon tetrachloride	105		-		70-130	-		41
1,2-Dichloropropane	80		-		35-165	-		55
Dibromochloromethane	105		-		70-135	-		50
1,1,2-Trichloroethane	100		-		70-130	-		45
2-Chloroethylvinyl ether	65		-		1-225	-		71
Tetrachloroethene	110		-		70-130	-		39
Chlorobenzene	85		-		65-135	-		53
Trichlorofluoromethane	90		-		50-150	-		84
1,2-Dichloroethane	85		-		70-130	-		49
1,1,1-Trichloroethane	95		-		70-130	-		36
Bromodichloromethane	110		-		65-135	-		56
trans-1,3-Dichloropropene	100		-		50-150	-		86
cis-1,3-Dichloropropene	100		-		25-175	-		58
Bromoform	115		-		70-130	-		42
1,1,2,2-Tetrachloroethane	105		-		60-140	-		61
Benzene	85		-		65-135	-		61
Toluene	100		-		70-130	-		41
Ethylbenzene	90		-		60-140	-		63
Chloromethane	90		-		1-205	-		60
Bromomethane	75		-		15-185	-		61

Lab Control Sample Analysis

Batch Quality Control

Project Name: 7-ELEVEN 24433

Project Number: 60617854

Lab Number: L2105226

Report Date: 02/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1461206-11								
Vinyl chloride	75		-		5-195	-		66
Chloroethane	100		-		40-160	-		78
1,1-Dichloroethene	95		-		50-150	-		32
trans-1,2-Dichloroethene	105		-		70-130	-		45
cis-1,2-Dichloroethene	85		-		60-140	-		30
Trichloroethene	80		-		65-135	-		48
1,2-Dichlorobenzene	90		-		65-135	-		57
1,3-Dichlorobenzene	90		-		70-130	-		43
1,4-Dichlorobenzene	90		-		65-135	-		57
p/m-Xylene	90		-		60-140	-		30
o-xylene	85		-		60-140	-		30
Styrene	80		-		60-140	-		30
Acetone	98		-		40-160	-		30
Carbon disulfide	100		-		60-140	-		30
2-Butanone	138		-		60-140	-		30
Vinyl acetate	138		-		60-140	-		30
4-Methyl-2-pentanone	100		-		60-140	-		30
2-Hexanone	112		-		60-140	-		30
Acrolein	122		-		60-140	-		30
Acrylonitrile	112		-		60-140	-		60
Methyl tert butyl Ether	85		-		60-140	-		30
Dibromomethane	70		-		70-130	-		30
Tert-Butyl Alcohol	130		-		60-140	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 7-ELEVEN 24433

Project Number: 60617854

Lab Number: L2105226

Report Date: 02/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1461206-11								
Tertiary-Amyl Methyl Ether	70		-		60-140	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	98				60-140
Fluorobenzene	90				60-140
4-Bromofluorobenzene	94				60-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 7-ELEVEN 24433

Project Number: 60617854

Lab Number: L2105226

Report Date: 02/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Microextractables by GC - Westborough Lab Associated sample(s): 01 Batch: WG1461661-2									
1,2-Dibromoethane	118		-		80-120	-			A
1,2-Dibromo-3-chloropropane	98		-		80-120	-			A
1,2,3-Trichloropropane	99		-		80-120	-			A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 7-ELEVEN 24433

Project Number: 60617854

Lab Number: L2105226

Report Date: 02/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1461749-3								
1,4-Dioxane	140		-		60-140	-		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Fluorobenzene	113				60-140
4-Bromofluorobenzene	81				60-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 7-ELEVEN 24433

Project Number: 60617854

Lab Number: L2105226

Report Date: 02/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1461788-3								
Acetone	99		-		70-130	-		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichlorobenzene-d4	100				80-120
4-Bromofluorobenzene	98				80-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 7-ELEVEN 24433

Project Number: 60617854

Lab Number: L2105226

Report Date: 02/12/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*	*Column*
Microextractables by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461661-3 QC Sample: L2105240-02 Client ID: MS Sample													
1,2-Dibromoethane	ND	0.25	0.260	104		-	-		80-120	-		20	A
1,2-Dibromo-3-chloropropane	ND	0.25	0.263	105		-	-		80-120	-		20	A
1,2,3-Trichloropropane	ND	0.25	0.236	94		-	-		80-120	-		20	A

Matrix Spike Analysis
Batch Quality Control

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461788-6 QC Sample: L2102617-18 Client ID: MS Sample												
Methylene chloride	ND	4	4.0	100		-	-		70-130	-		20
1,1-Dichloroethane	ND	4	4.3	108		-	-		70-130	-		20
Chloroform	3.9	4	8.4	113		-	-		70-130	-		20
Carbon tetrachloride	ND	4	4.3	108		-	-		70-130	-		20
1,2-Dichloropropane	ND	4	4.1	103		-	-		70-130	-		20
Dibromochloromethane	1.8	4	6.0	105		-	-		70-130	-		20
1,1,2-Trichloroethane	ND	4	4.0	100		-	-		70-130	-		20
Tetrachloroethene	ND	4	4.5	113		-	-		70-130	-		20
Chlorobenzene	ND	4	4.0	100		-	-		70-130	-		20
Trichlorofluoromethane	ND	4	4.5	113		-	-		70-130	-		20
1,2-Dichloroethane	ND	4	4.1	103		-	-		70-130	-		20
1,1,1-Trichloroethane	ND	4	4.3	108		-	-		70-130	-		20
Bromodichloromethane	0.55	4	4.6	101		-	-		70-130	-		20
trans-1,3-Dichloropropene	ND	4	3.5	88		-	-		70-130	-		20
cis-1,3-Dichloropropene	ND	4	3.7	92		-	-		70-130	-		20
Bromoform	3.6	4	7.7	103		-	-		70-130	-		20
1,1,2,2-Tetrachloroethane	ND	4	3.9	98		-	-		70-130	-		20
Benzene	ND	4	4.2	105		-	-		70-130	-		20
Toluene	ND	4	4.1	103		-	-		70-130	-		20
Ethylbenzene	ND	4	4.0	100		-	-		70-130	-		20
p/m-Xylene	ND	8	8.2	103		-	-		70-130	-		20
Chloromethane	ND	4	4.3	108		-	-		70-130	-		20
Bromomethane	ND	4	3.6	90		-	-		70-130	-		20
Vinyl chloride	ND	4	4.6	115		-	-		70-130	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461788-6 QC Sample: L2102617-18 Client ID: MS Sample												
Chloroethane	ND	4	4.3	108		-	-		70-130	-		20
1,1-Dichloroethene	ND	4	4.3	108		-	-		70-130	-		20
trans-1,2-Dichloroethene	ND	4	4.2	105		-	-		70-130	-		20
cis-1,2-Dichloroethene	ND	4	4.2	105		-	-		70-130	-		20
Trichloroethene	ND	4	4.4	110		-	-		70-130	-		20
1,2-Dichlorobenzene	ND	4	3.9	98		-	-		70-130	-		20
1,3-Dichlorobenzene	ND	4	4.1	103		-	-		70-130	-		20
1,4-Dichlorobenzene	ND	4	4.0	100		-	-		70-130	-		20
Styrene	ND	4	4.0	100		-	-		70-130	-		20
o-Xylene	ND	4	3.9	98		-	-		70-130	-		20
1,1-Dichloropropene	ND	4	4.4	110		-	-		70-130	-		20
2,2-Dichloropropane	ND	4	4.3	108		-	-		70-130	-		20
1,1,1,2-Tetrachloroethane	ND	4	3.8	95		-	-		70-130	-		20
1,2,3-Trichloropropane	ND	4	3.8	95		-	-		70-130	-		20
Bromochloromethane	ND	4	4.1	103		-	-		70-130	-		20
n-Butylbenzene	ND	4	4.1	103		-	-		70-130	-		20
Dichlorodifluoromethane	ND	4	4.3	108		-	-		70-130	-		20
Hexachlorobutadiene	ND	4	3.9	98		-	-		70-130	-		20
Isopropylbenzene	ND	4	4.1	103		-	-		70-130	-		20
p-Isopropyltoluene	ND	4	4.1	103		-	-		70-130	-		20
Naphthalene	ND	4	3.5	88		-	-		70-130	-		20
n-Propylbenzene	ND	4	4.2	105		-	-		70-130	-		20
sec-Butylbenzene	ND	4	4.2	105		-	-		70-130	-		20
tert-Butylbenzene	ND	4	4.1	103		-	-		70-130	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461788-6 QC Sample: L2102617-18 Client ID: MS Sample												
1,2,3-Trichlorobenzene	ND	4	3.8	95		-	-		70-130	-		20
1,2,4-Trichlorobenzene	ND	4	3.7	92		-	-		70-130	-		20
1,2,4-Trimethylbenzene	ND	4	4.2	105		-	-		70-130	-		20
1,3,5-Trimethylbenzene	ND	4	4.1	103		-	-		70-130	-		20
Bromobenzene	ND	4	4.0	100		-	-		70-130	-		20
o-Chlorotoluene	ND	4	4.1	103		-	-		70-130	-		20
p-Chlorotoluene	ND	4	4.2	105		-	-		70-130	-		20
Dibromomethane	ND	4	4.4	110		-	-		70-130	-		20
1,2-Dibromoethane	ND	4	4.0	100		-	-		70-130	-		20
1,2-Dibromo-3-chloropropane	ND	4	3.4	85		-	-		70-130	-		20
1,3-Dichloropropane	ND	4	4.0	100		-	-		70-130	-		20
Methyl tert butyl ether	ND	4	3.8	95		-	-		70-130	-		20
1,3,5-Trichlorobenzene	ND	4	3.8	95		-	-		70-130	-		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	100				80-120
4-Bromofluorobenzene	99				80-120

Lab Duplicate Analysis
Batch Quality Control

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461788-5 QC Sample: L2102617-17 Client ID: DUP Sample						
Methylene chloride	ND	ND	ug/l	NC		20
1,1-Dichloroethane	ND	ND	ug/l	NC		20
Chloroform	ND	ND	ug/l	NC		20
Carbon tetrachloride	ND	ND	ug/l	NC		20
1,2-Dichloropropane	ND	ND	ug/l	NC		20
Dibromochloromethane	ND	ND	ug/l	NC		20
1,1,2-Trichloroethane	ND	ND	ug/l	NC		20
Tetrachloroethene	ND	ND	ug/l	NC		20
Chlorobenzene	ND	ND	ug/l	NC		20
Trichlorofluoromethane	ND	ND	ug/l	NC		20
1,2-Dichloroethane	ND	ND	ug/l	NC		20
1,1,1-Trichloroethane	ND	ND	ug/l	NC		20
Bromodichloromethane	ND	ND	ug/l	NC		20
trans-1,3-Dichloropropene	ND	ND	ug/l	NC		20
cis-1,3-Dichloropropene	ND	ND	ug/l	NC		20
Bromoform	ND	ND	ug/l	NC		20
1,1,2,2-Tetrachloroethane	ND	ND	ug/l	NC		20
Benzene	ND	ND	ug/l	NC		20
Toluene	ND	ND	ug/l	NC		20
Ethylbenzene	ND	ND	ug/l	NC		20
p/m-Xylene	ND	ND	ug/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461788-5 QC Sample: L2102617-17 Client ID: DUP Sample						
Chloromethane	ND	ND	ug/l	NC		20
Bromomethane	ND	ND	ug/l	NC		20
Vinyl chloride	ND	ND	ug/l	NC		20
Chloroethane	ND	ND	ug/l	NC		20
1,1-Dichloroethene	ND	ND	ug/l	NC		20
trans-1,2-Dichloroethene	ND	ND	ug/l	NC		20
cis-1,2-Dichloroethene	ND	ND	ug/l	NC		20
Trichloroethene	ND	ND	ug/l	NC		20
1,2-Dichlorobenzene	ND	ND	ug/l	NC		20
1,3-Dichlorobenzene	ND	ND	ug/l	NC		20
1,4-Dichlorobenzene	ND	ND	ug/l	NC		20
Styrene	ND	ND	ug/l	NC		20
o-Xylene	ND	ND	ug/l	NC		20
1,1-Dichloropropene	ND	ND	ug/l	NC		20
2,2-Dichloropropane	ND	ND	ug/l	NC		20
1,1,1,2-Tetrachloroethane	ND	ND	ug/l	NC		20
1,2,3-Trichloropropane	ND	ND	ug/l	NC		20
Bromochloromethane	ND	ND	ug/l	NC		20
n-Butylbenzene	ND	ND	ug/l	NC		20
Dichlorodifluoromethane	ND	ND	ug/l	NC		20
Hexachlorobutadiene	ND	ND	ug/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461788-5 QC Sample: L2102617-17 Client ID: DUP Sample						
Isopropylbenzene	ND	ND	ug/l	NC		20
p-Isopropyltoluene	ND	ND	ug/l	NC		20
Naphthalene	ND	ND	ug/l	NC		20
n-Propylbenzene	ND	ND	ug/l	NC		20
sec-Butylbenzene	ND	ND	ug/l	NC		20
tert-Butylbenzene	ND	ND	ug/l	NC		20
1,2,3-Trichlorobenzene	ND	ND	ug/l	NC		20
1,2,4-Trichlorobenzene	ND	ND	ug/l	NC		20
1,2,4-Trimethylbenzene	ND	ND	ug/l	NC		20
1,3,5-Trimethylbenzene	ND	ND	ug/l	NC		20
Bromobenzene	ND	ND	ug/l	NC		20
o-Chlorotoluene	ND	ND	ug/l	NC		20
p-Chlorotoluene	ND	ND	ug/l	NC		20
Dibromomethane	ND	ND	ug/l	NC		20
1,2-Dibromoethane	ND	ND	ug/l	NC		20
1,2-Dibromo-3-chloropropane	ND	ND	ug/l	NC		20
1,3-Dichloropropane	ND	ND	ug/l	NC		20
Methyl tert butyl ether	ND	ND	ug/l	NC		20
1,3,5-Trichlorobenzene	ND	ND	ug/l	NC		20
Xylene (Total)	ND	ND	ug/l	NC		20
Trihalomethanes, Total	ND	ND	ug/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461788-5 QC Sample: L2102617-17 Client ID: DUP Sample

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	101		103		80-120
4-Bromofluorobenzene	96		96		80-120

SEMIVOLATILES

Project Name: 7-ELEVEN 24433 **Lab Number:** L2105226

Project Number: 60617854 **Report Date:** 02/12/21

SAMPLE RESULTS

Lab ID: L2105226-01
Client ID: EFFLUENT
Sample Location: NASHUA, NH

Date Collected: 02/03/21 13:45
Date Received: 02/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 129,625.1
Analytical Date: 02/04/21 09:18
Analyst: SZ

Extraction Method: EPA 625.1
Extraction Date: 02/03/21 16:37

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	73		42-122
2-Fluorobiphenyl	78		46-121
4-Terphenyl-d14	89		47-138

Project Name: 7-ELEVEN 24433 **Lab Number:** L2105226

Project Number: 60617854 **Report Date:** 02/12/21

SAMPLE RESULTS

Lab ID: L2105226-01
Client ID: EFFLUENT
Sample Location: NASHUA, NH

Date Collected: 02/03/21 13:45
Date Received: 02/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 129,625.1-SIM
Analytical Date: 02/04/21 14:23
Analyst: DV

Extraction Method: EPA 625.1
Extraction Date: 02/03/21 16:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.100	--	1
Fluoranthene	ND		ug/l	0.100	--	1
Naphthalene	0.114		ug/l	0.100	--	1
Benzo(a)anthracene	ND		ug/l	0.100	--	1
Benzo(a)pyrene	ND		ug/l	0.100	--	1
Benzo(b)fluoranthene	ND		ug/l	0.100	--	1
Benzo(k)fluoranthene	ND		ug/l	0.100	--	1
Chrysene	ND		ug/l	0.100	--	1
Acenaphthylene	ND		ug/l	0.100	--	1
Anthracene	ND		ug/l	0.100	--	1
Benzo(ghi)perylene	ND		ug/l	0.100	--	1
Fluorene	ND		ug/l	0.100	--	1
Phenanthrene	ND		ug/l	0.100	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.100	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.100	--	1
Pyrene	ND		ug/l	0.100	--	1
Pentachlorophenol	ND		ug/l	1.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		25-87
Phenol-d6	34		16-65
Nitrobenzene-d5	92		42-122
2-Fluorobiphenyl	78		46-121
2,4,6-Tribromophenol	72		45-128
4-Terphenyl-d14	86		47-138

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1
Analytical Date: 02/04/21 08:32
Analyst: SZ

Extraction Method: EPA 625.1
Extraction Date: 02/03/21 16:37

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1461387-1					
Bis(2-ethylhexyl)phthalate	ND		ug/l	2.20	--
Butyl benzyl phthalate	ND		ug/l	5.00	--
Di-n-butylphthalate	ND		ug/l	5.00	--
Di-n-octylphthalate	ND		ug/l	5.00	--
Diethyl phthalate	ND		ug/l	5.00	--
Dimethyl phthalate	ND		ug/l	5.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	70		42-122
2-Fluorobiphenyl	79		46-121
4-Terphenyl-d14	95		47-138

Project Name: 7-ELEVEN 24433 **Lab Number:** L2105226

Project Number: 60617854 **Report Date:** 02/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1-SIM
Analytical Date: 02/04/21 14:07
Analyst: DV

Extraction Method: EPA 625.1
Extraction Date: 02/03/21 16:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1461388-1					
Acenaphthene	ND		ug/l	0.100	--
Fluoranthene	ND		ug/l	0.100	--
Naphthalene	ND		ug/l	0.100	--
Benzo(a)anthracene	ND		ug/l	0.100	--
Benzo(a)pyrene	ND		ug/l	0.100	--
Benzo(b)fluoranthene	ND		ug/l	0.100	--
Benzo(k)fluoranthene	ND		ug/l	0.100	--
Chrysene	ND		ug/l	0.100	--
Acenaphthylene	ND		ug/l	0.100	--
Anthracene	ND		ug/l	0.100	--
Benzo(ghi)perylene	ND		ug/l	0.100	--
Fluorene	ND		ug/l	0.100	--
Phenanthrene	ND		ug/l	0.100	--
Dibenzo(a,h)anthracene	ND		ug/l	0.100	--
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.100	--
Pyrene	ND		ug/l	0.100	--
Pentachlorophenol	ND		ug/l	1.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		25-87
Phenol-d6	34		16-65
Nitrobenzene-d5	90		42-122
2-Fluorobiphenyl	79		46-121
2,4,6-Tribromophenol	59		45-128
4-Terphenyl-d14	92		47-138

Lab Control Sample Analysis

Batch Quality Control

Project Name: 7-ELEVEN 24433

Project Number: 60617854

Lab Number: L2105226

Report Date: 02/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1461387-2								
Bis(2-ethylhexyl)phthalate	85		-		29-137	-		82
Butyl benzyl phthalate	81		-		1-140	-		60
Di-n-butylphthalate	78		-		8-120	-		47
Di-n-octylphthalate	84		-		19-132	-		69
Diethyl phthalate	74		-		1-120	-		100
Dimethyl phthalate	75		-		1-120	-		183

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	71				42-122
2-Fluorobiphenyl	72				46-121
4-Terphenyl-d14	75				47-138

Lab Control Sample Analysis
Batch Quality Control

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1461388-2								
Acenaphthene	89		-		60-132	-		30
Fluoranthene	101		-		43-121	-		30
Naphthalene	80		-		36-120	-		30
Benzo(a)anthracene	91		-		42-133	-		30
Benzo(a)pyrene	82		-		32-148	-		30
Benzo(b)fluoranthene	96		-		42-140	-		30
Benzo(k)fluoranthene	90		-		25-146	-		30
Chrysene	90		-		44-140	-		30
Acenaphthylene	97		-		54-126	-		30
Anthracene	90		-		43-120	-		30
Benzo(ghi)perylene	90		-		1-195	-		30
Fluorene	93		-		70-120	-		30
Phenanthrene	90		-		65-120	-		30
Dibenzo(a,h)anthracene	95		-		1-200	-		30
Indeno(1,2,3-cd)pyrene	97		-		1-151	-		30
Pyrene	100		-		70-120	-		30
Pentachlorophenol	95		-		38-152	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 7-ELEVEN 24433

Project Number: 60617854

Lab Number: L2105226

Report Date: 02/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1461388-2

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	49				25-87
Phenol-d6	37				16-65
Nitrobenzene-d5	84				42-122
2-Fluorobiphenyl	90				46-121
2,4,6-Tribromophenol	118				45-128
4-Terphenyl-d14	104				47-138

PCBS

Project Name: 7-ELEVEN 24433 **Lab Number:** L2105226

Project Number: 60617854 **Report Date:** 02/12/21

SAMPLE RESULTS

Lab ID: L2105226-01
Client ID: EFFLUENT
Sample Location: NASHUA, NH

Date Collected: 02/03/21 13:45
Date Received: 02/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 127,608.3
Analytical Date: 02/04/21 01:06
Analyst: CW

Extraction Method: EPA 608.3
Extraction Date: 02/03/21 16:16
Cleanup Method: EPA 3665A
Cleanup Date: 02/03/21
Cleanup Method: EPA 3660B
Cleanup Date: 02/03/21

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		37-123	B
Decachlorobiphenyl	104		38-114	B
2,4,5,6-Tetrachloro-m-xylene	72		37-123	A
Decachlorobiphenyl	82		38-114	A

Project Name: 7-ELEVEN 24433 **Lab Number:** L2105226

Project Number: 60617854 **Report Date:** 02/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 127,608.3
Analytical Date: 02/03/21 21:25
Analyst: JAW

Extraction Method: EPA 608.3
Extraction Date: 02/03/21 03:58
Cleanup Method: EPA 3665A
Cleanup Date: 02/03/21
Cleanup Method: EPA 3660B
Cleanup Date: 02/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1461135-1						
Aroclor 1016	ND		ug/l	0.250	--	B
Aroclor 1221	ND		ug/l	0.250	--	B
Aroclor 1232	ND		ug/l	0.250	--	B
Aroclor 1242	ND		ug/l	0.250	--	B
Aroclor 1248	ND		ug/l	0.250	--	B
Aroclor 1254	ND		ug/l	0.250	--	B
Aroclor 1260	ND		ug/l	0.200	--	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		37-123	B
Decachlorobiphenyl	90		38-114	B
2,4,5,6-Tetrachloro-m-xylene	66		37-123	A
Decachlorobiphenyl	72		38-114	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 7-ELEVEN 24433

Project Number: 60617854

Lab Number: L2105226

Report Date: 02/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1461135-2									
Aroclor 1016	57		-		50-140	-		36	B
Aroclor 1260	60		-		8-140	-		38	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50				37-123	B
Decachlorobiphenyl	56				38-114	B
2,4,5,6-Tetrachloro-m-xylene	43				37-123	A
Decachlorobiphenyl	49				38-114	A

METALS

Project Name: 7-ELEVEN 24433 **Lab Number:** L2105226

Project Number: 60617854 **Report Date:** 02/12/21

SAMPLE RESULTS

Lab ID: L2105226-01 Date Collected: 02/03/21 13:45

Client ID: EFFLUENT Date Received: 02/03/21

Sample Location: NASHUA, NH Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.00400	--	1	02/04/21 14:31	02/04/21 18:22	EPA 3005A	3,200.8	AM
Arsenic, Total	0.00399		mg/l	0.00100	--	1	02/04/21 14:31	02/04/21 18:22	EPA 3005A	3,200.8	AM
Cadmium, Total	0.00021		mg/l	0.00020	--	1	02/04/21 14:31	02/04/21 18:22	EPA 3005A	3,200.8	AM
Chromium, Total	0.00314		mg/l	0.00100	--	1	02/04/21 14:31	02/04/21 18:22	EPA 3005A	3,200.8	AM
Copper, Total	0.00471		mg/l	0.00100	--	1	02/04/21 14:31	02/04/21 18:22	EPA 3005A	3,200.8	AM
Iron, Total	3.09		mg/l	0.050	--	1	02/04/21 14:31	02/05/21 09:16	EPA 3005A	19,200.7	GD
Lead, Total	0.00155		mg/l	0.00100	--	1	02/04/21 14:31	02/04/21 18:22	EPA 3005A	3,200.8	AM
Mercury, Total	ND		mg/l	0.00020	--	1	02/04/21 14:35	02/04/21 21:20	EPA 245.1	3,245.1	NB
Nickel, Total	0.00299		mg/l	0.00200	--	1	02/04/21 14:31	02/04/21 18:22	EPA 3005A	3,200.8	AM
Selenium, Total	ND		mg/l	0.00500	--	1	02/04/21 14:31	02/04/21 18:22	EPA 3005A	3,200.8	AM
Silver, Total	ND		mg/l	0.00040	--	1	02/04/21 14:31	02/04/21 18:22	EPA 3005A	3,200.8	AM
Zinc, Total	0.01154		mg/l	0.01000	--	1	02/04/21 14:31	02/04/21 18:22	EPA 3005A	3,200.8	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	--	1		02/04/21 18:22	NA	107,-	

Project Name: 7-ELEVEN 24433 **Lab Number:** L2105226

Project Number: 60617854 **Report Date:** 02/12/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1461408-1										
Antimony, Total	ND		mg/l	0.00400	--	1	02/04/21 14:31	02/04/21 18:02	3,200.8	AM
Arsenic, Total	ND		mg/l	0.00100	--	1	02/04/21 14:31	02/04/21 18:02	3,200.8	AM
Cadmium, Total	ND		mg/l	0.00020	--	1	02/04/21 14:31	02/04/21 18:02	3,200.8	AM
Chromium, Total	ND		mg/l	0.00100	--	1	02/04/21 14:31	02/04/21 18:02	3,200.8	AM
Copper, Total	ND		mg/l	0.00100	--	1	02/04/21 14:31	02/04/21 18:02	3,200.8	AM
Lead, Total	ND		mg/l	0.00100	--	1	02/04/21 14:31	02/04/21 18:02	3,200.8	AM
Nickel, Total	ND		mg/l	0.00200	--	1	02/04/21 14:31	02/04/21 18:02	3,200.8	AM
Selenium, Total	ND		mg/l	0.00500	--	1	02/04/21 14:31	02/04/21 18:02	3,200.8	AM
Silver, Total	ND		mg/l	0.00040	--	1	02/04/21 14:31	02/04/21 18:02	3,200.8	AM
Zinc, Total	ND		mg/l	0.01000	--	1	02/04/21 14:31	02/04/21 18:02	3,200.8	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1461409-1										
Iron, Total	ND		mg/l	0.050	--	1	02/04/21 14:31	02/05/21 08:53	19,200.7	GD

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1461410-1										
Mercury, Total	ND		mg/l	0.00020	--	1	02/04/21 14:35	02/04/21 21:13	3,245.1	NB

Prep Information

Digestion Method: EPA 245.1

Lab Control Sample Analysis

Batch Quality Control

Project Name: 7-ELEVEN 24433

Project Number: 60617854

Lab Number: L2105226

Report Date: 02/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1461408-2								
Antimony, Total	85		-		85-115	-		
Arsenic, Total	103		-		85-115	-		
Cadmium, Total	108		-		85-115	-		
Chromium, Total	96		-		85-115	-		
Copper, Total	95		-		85-115	-		
Lead, Total	102		-		85-115	-		
Nickel, Total	94		-		85-115	-		
Selenium, Total	107		-		85-115	-		
Silver, Total	99		-		85-115	-		
Zinc, Total	105		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1461409-2								
Iron, Total	98		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1461410-2								
Mercury, Total	92		-		85-115	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1461408-3 QC Sample: L2105226-01 Client ID: EFFLUENT												
Antimony, Total	ND	0.5	0.5019	100		-	-		70-130	-		20
Arsenic, Total	0.00399	0.12	0.1277	103		-	-		70-130	-		20
Cadmium, Total	0.00021	0.051	0.05191	101		-	-		70-130	-		20
Chromium, Total	0.00314	0.2	0.1946	96		-	-		70-130	-		20
Copper, Total	0.00471	0.25	0.2458	96		-	-		70-130	-		20
Lead, Total	0.00155	0.51	0.5266	103		-	-		70-130	-		20
Nickel, Total	0.00299	0.5	0.4654	92		-	-		70-130	-		20
Selenium, Total	ND	0.12	0.1261	105		-	-		70-130	-		20
Silver, Total	ND	0.05	0.04917	98		-	-		70-130	-		20
Zinc, Total	0.01154	0.5	0.5116	100		-	-		70-130	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1461409-3 QC Sample: L2105226-01 Client ID: EFFLUENT												
Iron, Total	3.09	1	4.00	91		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1461410-3 QC Sample: L2105226-01 Client ID: EFFLUENT												
Mercury, Total	ND	0.005	0.00446	89		-	-		70-130	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 7-ELEVEN 24433

Project Number: 60617854

Lab Number: L2105226

Report Date: 02/12/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1461408-4 QC Sample: L2105226-01 Client ID: EFFLUENT						
Antimony, Total	ND	ND	mg/l	NC		20
Arsenic, Total	0.00399	0.00381	mg/l	5		20
Cadmium, Total	0.00021	0.00020	mg/l	2		20
Chromium, Total	0.00314	0.00307	mg/l	2		20
Copper, Total	0.00471	0.00452	mg/l	4		20
Lead, Total	0.00155	0.00149	mg/l	4		20
Nickel, Total	0.00299	0.00344	mg/l	14		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.01154	0.01140	mg/l	1		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1461409-4 QC Sample: L2105226-01 Client ID: EFFLUENT						
Iron, Total	3.09	3.15	mg/l	2		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1461410-4 QC Sample: L2105226-01 Client ID: EFFLUENT						
Mercury, Total	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

SAMPLE RESULTS

Lab ID: L2105226-01
Client ID: EFFLUENT
Sample Location: NASHUA, NH

Date Collected: 02/03/21 13:45
Date Received: 02/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	150		mg/l	5.0	NA	1	-	02/04/21 14:15	121,2540D	AC
Cyanide, Total	ND		mg/l	0.005	--	1	02/03/21 23:20	02/04/21 12:03	121,4500CN-CE	CR
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	02/03/21 18:03	121,4500CL-D	AS
Nitrogen, Ammonia	0.392		mg/l	0.150	--	2	02/04/21 02:06	02/04/21 14:36	121,4500NH3-BH	JO
TPH, SGT-HEM	ND		mg/l	4.00	--	1	02/04/21 19:00	02/04/21 20:00	74,1664A	TL
Phenolics, Total	ND		mg/l	0.030	--	1	02/04/21 07:04	02/04/21 10:41	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	--	1	02/04/21 05:45	02/04/21 06:22	1,7196A	AW
Anions by Ion Chromatography - Westborough Lab										
Chloride	1800		mg/l	50.0	--	100	-	02/03/21 19:38	44,300.0	AT

Project Name: 7-ELEVEN 24433 **Lab Number:** L2105226

Project Number: 60617854 **Report Date:** 02/12/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1461415-1										
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	02/03/21 18:03	121,4500CL-D	AS
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG1461454-1										
Chloride	ND		mg/l	0.500	--	1	-	02/03/21 16:44	44,300.0	AT
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1461455-1										
Cyanide, Total	ND		mg/l	0.005	--	1	02/03/21 23:20	02/04/21 12:07	121,4500CN-CE	CR
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1461459-1										
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	02/04/21 02:06	02/04/21 14:11	121,4500NH3-BH	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1461539-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	02/04/21 05:45	02/04/21 06:22	1,7196A	AW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1461552-1										
Phenolics, Total	ND		mg/l	0.030	--	1	02/04/21 07:04	02/04/21 10:33	4,420.1	KP
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1461605-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	02/04/21 14:15	121,2540D	AC
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1461760-1										
TPH, SGT-HEM	ND		mg/l	4.00	--	1	02/04/21 19:00	02/04/21 20:00	74,1664A	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1461415-2								
Chlorine, Total Residual	104		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG1461454-2								
Chloride	102		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1461455-2								
Cyanide, Total	97		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1461459-2								
Nitrogen, Ammonia	92		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1461539-2								
Chromium, Hexavalent	104		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1461552-2								
Phenolics, Total	106		-		70-130	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1461605-2								
Solids, Total Suspended	90		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 7-ELEVEN 24433

Project Number: 60617854

Lab Number: L2105226

Report Date: 02/12/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1461760-2					
TPH	82	-	64-132	-	34

Matrix Spike Analysis
Batch Quality Control

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461415-4 QC Sample: L2105226-01 Client ID: EFFLUENT												
Chlorine, Total Residual	ND	0.25	0.23	92		-	-		80-120	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461454-3 QC Sample: L2104306-06 Client ID: MS Sample												
Chloride	82.6	40	124	105		-	-		90-110	-		18
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461455-4 QC Sample: L2104719-06 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.172	**86**	Q	-	-		90-110	-		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461459-4 QC Sample: L2105282-02 Client ID: MS Sample												
Nitrogen, Ammonia	0.292	4	4.12	96		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461539-4 QC Sample: L2105226-01 Client ID: EFFLUENT												
Chromium, Hexavalent	ND	0.1	0.098	98		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461552-4 QC Sample: L2105226-01 Client ID: EFFLUENT												
Phenolics, Total	ND	0.4	0.36	89		-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461760-4 QC Sample: L2104936-13 Client ID: MS Sample												
TPH	ND	20.6	15.9	77		-	-		64-132	-		34

Lab Duplicate Analysis

Batch Quality Control

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461415-3 QC Sample: L2105108-01 Client ID: DUP Sample						
Chlorine, Total Residual	1.7	1.8	mg/l	6		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461454-4 QC Sample: L2104306-06 Client ID: DUP Sample						
Chloride	82.6	85.1	mg/l	5		18
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461455-3 QC Sample: L2104719-04 Client ID: DUP Sample						
Cyanide, Total	ND	ND	mg/l	NC		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461459-3 QC Sample: L2105282-02 Client ID: DUP Sample						
Nitrogen, Ammonia	0.292	0.347	mg/l	17		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461539-3 QC Sample: L2105226-01 Client ID: EFFLUENT						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461552-3 QC Sample: L2105226-01 Client ID: EFFLUENT						
Phenolics, Total	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461605-3 QC Sample: L2105175-01 Client ID: DUP Sample						
Solids, Total Suspended	120	130	mg/l	8		29
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1461760-3 QC Sample: L2104936-12 Client ID: DUP Sample						
TPH	ND	ND	mg/l	NC		34

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2105226-01A	Vial Na2S2O3 preserved	A	NA		2.7	Y	Absent		624.1-SIM-RGP(7),624.1-RGP(3)
L2105226-01A1	Vial Na2S2O3 preserved	A	NA		2.7	Y	Absent		624.1-SIM-RGP(7),624.1-RGP(3)
L2105226-01B	Vial Na2S2O3 preserved	A	NA		2.7	Y	Absent		624.1-SIM-RGP(7),624.1-RGP(3)
L2105226-01B1	Vial Na2S2O3 preserved	A	NA		2.7	Y	Absent		624.1-SIM-RGP(7),624.1-RGP(3)
L2105226-01C	Vial Na2S2O3 preserved	A	NA		2.7	Y	Absent		624.1-SIM-RGP(7),624.1-RGP(3)
L2105226-01C1	Vial Na2S2O3 preserved	A	NA		2.7	Y	Absent		624.1-SIM-RGP(7),624.1-RGP(3)
L2105226-01D	Vial Na2S2O3 preserved	A	NA		2.7	Y	Absent		504(14)
L2105226-01E	Vial Na2S2O3 preserved	A	NA		2.7	Y	Absent		504(14)
L2105226-01F	Vial unpreserved	A	NA		2.7	Y	Absent		SUB-ETHANOL(14),SUB-TBA(14)
L2105226-01G	Vial unpreserved	A	NA		2.7	Y	Absent		SUB-ETHANOL(14),SUB-TBA(14)
L2105226-01H	Vial unpreserved	A	NA		2.7	Y	Absent		SUB-ETHANOL(14),SUB-TBA(14)
L2105226-01I	Vial Ascorbic Acid/HCl preserved	A	NA		2.7	Y	Absent		NH-524(14)
L2105226-01J	Vial Ascorbic Acid/HCl preserved	A	NA		2.7	Y	Absent		NH-524(14)
L2105226-01K	Plastic 250ml NaOH preserved	A	>12	>12	2.7	Y	Absent		TCN-4500(14)
L2105226-01L	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	Y	Absent		CD-2008T(180),NI-2008T(180),ZN-2008T(180),FE-UI(180),CU-2008T(180),AG-2008T(180),HG-U(28),SE-2008T(180),AS-2008T(180),SB-2008T(180),CR-2008T(180),PB-2008T(180)
L2105226-01M	Plastic 500ml H2SO4 preserved	A	<2	<2	2.7	Y	Absent		NH3-4500(28)
L2105226-01N	Plastic 950ml unpreserved	A	7	7	2.7	Y	Absent		HEXCR-7196(1),CL-300(28),TRC-4500(1)
L2105226-01O	Plastic 950ml unpreserved	A	7	7	2.7	Y	Absent		TSS-2540(7)
L2105226-01P	Amber 950ml H2SO4 preserved	A	<2	<2	2.7	Y	Absent		TPHENOL-420(28)
L2105226-01Q	Amber 1000ml Na2S2O3	A	7	7	2.7	Y	Absent		PCB-608.3(365)
L2105226-01R	Amber 1000ml Na2S2O3	A	7	7	2.7	Y	Absent		PCB-608.3(365)

*Values in parentheses indicate holding time in days

Project Name: 7-ELEVEN 24433
Project Number: 60617854

Lab Number: L2105226
Report Date: 02/12/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2105226-01S	Amber 1000ml Na2S2O3	A	7	7	2.7	Y	Absent		625.1-RGP(7)
L2105226-01T	Amber 1000ml Na2S2O3	A	7	7	2.7	Y	Absent		625.1-RGP(7)
L2105226-01U	Amber 1000ml Na2S2O3	A	7	7	2.7	Y	Absent		625.1-SIM-RGP(7)
L2105226-01V	Amber 1000ml Na2S2O3	A	7	7	2.7	Y	Absent		625.1-SIM-RGP(7)
L2105226-01W	Amber 1000ml HCl preserved	A	NA		2.7	Y	Absent		TPH-1664(28)
L2105226-01X	Amber 1000ml HCl preserved	A	NA		2.7	Y	Absent		TPH-1664(28)
L2105226-02A	Vial Ascorbic Acid/HCl preserved	A	NA		2.7	Y	Absent		ARCHIVE()
L2105226-02B	Vial Ascorbic Acid/HCl preserved	A	NA		2.7	Y	Absent		ARCHIVE()

*Values in parentheses indicate holding time in days

Project Name:	7-ELEVEN 24433	**Lab Number:**	L2105226
Project Number:	60617854	**Report Date:**	02/12/21

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: Data Usability Report

Project Name:	7-ELEVEN 24433	**Lab Number:**	L2105226
Project Number:	60617854	**Report Date:**	02/12/21

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

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

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

Report Format: Data Usability Report

Project Name:	7-ELEVEN 24433	**Lab Number:**	L2105226
Project Number:	60617854	**Report Date:**	02/12/21

Data Qualifiers

the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

Project Name:	7-ELEVEN 24433	**Lab Number:**	L2105226
Project Number:	60617854	**Report Date:**	02/12/21

REFERENCES

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

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

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

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

16 Methods for the Determination of Organic Compounds in Drinking Water - Supplement II. EPA/600/R-92/129, August 1992.

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

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

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

107 Alpha Analytical - In-house calculation method.

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

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

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

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

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

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

Mansfield Facility:

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

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

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

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab: 2/3/21

ALPHA Job #: L2105226

Client Information

Client: AECOM
Address: 10 ORMS ST.
PROVIDENCE, RI 02904
Phone: 401-274-5685
Email: LUIS.FERREIRA@AECOM.COM

Project Information

Project Name: 7-ELEVEN 24433
Project Location: NASHUA, NH
Project #: 60617854
Project Manager: LUIS FERREIRA
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)
Date Due:

Report Information - Data Deliverables

☐ ADEx ☒ EMAIL

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC: ☐ 8260 ☒ 624 ☒ 524.2	SVOC: ☐ ABN ☐ PAH ☒ 8270 CT/MA	METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15	METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13 Total Acetates	EPH: ☐ Ranges & Targets ☐ Ranges Only	VPH: ☐ Ranges & Targets ☐ Ranges Only	☐ PCB ☐ PEST	TPH: ☐ Quant Only ☐ Fingerprint 1664	TSS - 2540	HEXCR TRC-4500 NH CL	625.1	TP-NEWGL	NH3	TCN	Sample Comments	TOTAL # BOTTLES
05226-01	EFFLUENT	2/3/21	1345	W	TWL	X	X		X				X	X	X	X	X	X	X		27
Container Type						✓	✓		P				A	P	P	A	A	P	P		
Preservative						H/B	—		HNO3				HCl	—	—	H	D	D	E		

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
	2/3/21 3:00pm	ARL	2/3/21 15:00

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

ALPHA ANALYTICAL
World Class Chemistry

Subcontract Chain of Custody

Tek Lab, Inc.
5445 Horsehoe Lake Road
Collinsville, IL 62234-7425

Alpha Job Number
L2105226

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 508.439.5137
Email: nhunt@alphalab.com

Project Information

Project Location: NH
Project Manager: Nichole Hunt

Turnaround & Deliverables Information

Due Date: 02/12/21 (RUSH)
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2105226

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com Tert-Butyl Alcohol by Method 1671 Ethanol by Method 1666

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	EFFLUENT	02-03-21 13:45	WATER	Ethanol by EPA 1671 Revision A; Tert-Butyl-Alcohol	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
	C Tebeau	2/4/21		
Form No: AL_subcoc				

Teklab, Inc.
Environmental Laboratory

http://www.teklabinc.com/

February 12, 2021

Nichole Hunt
Alpha Analytical
145 Flanders Road
Westborough, MA 01581
TEL: (508) 898-9220
FAX:

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

RE: L2105226 **WorkOrder:** 21020388

Dear Nichole Hunt:

TEKLAB, INC received 1 sample on 2/5/2021 9:45:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Marvin L. Darling II

Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com

Teklab, Inc.
Environmental Laboratory

Report Contents

http://www.teklabinc.com/

Client: Alpha Analytical
Work Order: 21020388
Client Project: L2105226
Report Date: 12-Feb-21

This reporting package includes the following:

Teklab, Inc.
Environmental Laboratory

Definitions

http://www.teklabinc.com/

Client: Alpha Analytical **Work Order:** 21020388

Client Project: L2105226 **Report Date:** 12-Feb-21

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Teklab, Inc. Environmental Laboratory

Definitions

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Client: Alpha Analytical

Work Order: 21020388

Client Project: L2105226

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Qualifiers

# -	Unknown hydrocarbon	B -	Analyte detected in associated Method Blank
C -	RL shown is a Client Requested Quantitation Limit	E -	Value above quantitation range
H -	Holding times exceeded	I -	Associated internal standard was outside method criteria
J -	Analyte detected below quantitation limits	M -	Manual Integration used to determine area response
ND -	Not Detected at the Reporting Limit	R -	RPD outside accepted recovery limits
S -	Spike Recovery outside recovery limits	T -	TIC(Tentatively identified compound)
X -	Value exceeds Maximum Contaminant Level		

Teklab, Inc. Environmental Laboratory

Case Narrative

http://www.teklabinc.com/

Client: Alpha Analytical

Client Project: L2105226

Work Order: 21020388

Report Date: 12-Feb-21

Cooler Receipt Temp: 3.2 °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Teklab, Inc. Environmental Laboratory

Accreditations

http://www.teklabinc.com/

Client: Alpha Analytical

Work Order: 21020388

Client Project: L2105226

Report Date: 12-Feb-21

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2022	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2021	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2021	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2021	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2021	Collinsville
Arkansas	ADEQ	88-0966		3/14/2021	Collinsville
Illinois	IDPH	17584		5/31/2021	Collinsville
Kentucky	UST	0073		1/31/2022	Collinsville
Missouri	MDNR	00930		5/31/2021	Collinsville
Missouri	MDNR	930		1/31/2022	Collinsville

Teklab, Inc. Environmental Laboratory

Laboratory Results

http://www.teklabinc.com/

Client: Alpha Analytical
Work Order: 21020388
Client Project: L2105226
Report Date: 12-Feb-21
Lab ID: 21020388-001
Client Sample ID: EFFLUENT
Matrix: AQUEOUS
Collection Date: 02/03/2021 13:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 1671A, PHARMACEUTICAL MANUFACTURING INDUSTRY NON-PURGEABLE VOLATILE ORGANICS								
Ethanol	*	20		**ND**	mg/L	1	02/09/2021 11:16	R287256
EPA 600 1666A (MODIFIED), VOLATILE ORGANIC COMPOUNDS BY GC/MS								
tert-Butyl alcohol	*	1000		**ND**	µg/L	20	02/09/2021 13:44	173732
Surr: Bromofluorobenzene	*	70-130		**99.7**	%REC	20	02/09/2021 13:44	173732
Surr: Cyclohexane-d12	*	8-156		**95.7**	%REC	20	02/09/2021 13:44	173732
Surr: Ethyl acetate-C13	*	58-159		**95.2**	%REC	20	02/09/2021 13:44	173732
Surr: m-Xylene-d10	*	70-130		**100.1**	%REC	20	02/09/2021 13:44	173732
Surr: n-Heptane-d16	*	14-128		**97.2**	%REC	20	02/09/2021 13:44	173732
Surr: n-Hexane-d14	*	5-157		**98.7**	%REC	20	02/09/2021 13:44	173732
Surr: o-Xylene-d10	*	70-130		**99.2**	%REC	20	02/09/2021 13:44	173732
Surr: tert-Butanol-d10	*	40-160		**104.8**	%REC	20	02/09/2021 13:44	173732
Surr: Tetrahydrofuran-d8	*	42-178		**101.6**	%REC	20	02/09/2021 13:44	173732

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Alpha Analytical
Work Order: 21020388
Client Project: L2105226
Report Date: 12-Feb-21

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

Batch R287256 **SampType:** MBLK Units **mg/L**
SampID: MBLK-020921

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Ethanol	*	20		**ND**						02/09/2021

Batch R287256 **SampType:** LCS Units **mg/L**
SampID: LCS-020921

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Ethanol	*	20		**230**	250.0	0	92.4	70	132	02/09/2021

Batch R287256 **SampType:** MS Units **mg/L**
SampID: 21020388-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Ethanol	*	20		**180**	250.0	0	70.1	70	132	02/09/2021

Batch R287256 **SampType:** MSD Units **mg/L** RPD Limit **30**
SampID: 21020388-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Ethanol	*	20		**200**	250.0	0	78.3	175.3	11.01	02/09/2021

EPA 600 1666A (MODIFIED), VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 173732 **SampType:** MBLK Units **µg/L**
SampID: MBLK-AK210209A-1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
tert-Butyl alcohol	*	50.0		**ND**						02/09/2021
Surr: Bromofluorobenzene	*			**49.8**	50.00		99.6	70	130	02/09/2021
Surr: Cyclohexane-d12	*			**48.1**	50.00		96.2	8	156	02/09/2021
Surr: Ethyl acetate-C13	*			**46.7**	50.00		93.4	58	159	02/09/2021
Surr: m-Xylene-d10	*			**50.1**	50.00		100.3	70	130	02/09/2021
Surr: n-Heptane-d16	*			**48.9**	50.00		97.8	14	128	02/09/2021
Surr: n-Hexane-d14	*			**49.7**	50.00		99.4	5	157	02/09/2021
Surr: o-Xylene-d10	*			**49.5**	50.00		99.0	70	130	02/09/2021
Surr: tert-Butanol-d10	*			**508**	500.0		101.5	40	160	02/09/2021
Surr: Tetrahydrofuran-d8	*			**50.1**	50.00		100.3	42	178	02/09/2021

Teklab, Inc. Environmental Laboratory

Quality Control Results

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Client: Alpha Analytical
Work Order: 21020388
Client Project: L2105226
Report Date: 12-Feb-21

EPA 600 1666A (MODIFIED), VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 173732 **SampType:** LCS Units **µg/L**
SampID: LCS-AK210209A-1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
tert-Butyl alcohol	*	50.0		**124**	125.0	0	99.4	1	212	02/09/2021
Surr: Bromofluorobenzene	*			**50.5**	50.00		100.9	70	130	02/09/2021
Surr: Cyclohexane-d12	*			**48.0**	50.00		96.1	8	156	02/09/2021
Surr: Ethyl acetate-C13	*			**49.1**	50.00		98.2	58	159	02/09/2021
Surr: m-Xylene-d10	*			**50.0**	50.00		100.0	70	130	02/09/2021
Surr: n-Heptane-d16	*			**49.4**	50.00		98.9	14	128	02/09/2021
Surr: n-Hexane-d14	*			**50.2**	50.00		100.4	5	157	02/09/2021
Surr: o-Xylene-d10	*			**49.9**	50.00		99.8	70	130	02/09/2021
Surr: tert-Butanol-d10	*			**504**	500.0		100.8	40	160	02/09/2021
Surr: Tetrahydrofuran-d8	*			**48.7**	50.00		97.5	42	178	02/09/2021

Batch 173732 **SampType:** LCSD Units **µg/L** RPD Limit **25**
SampID: LCSD-AK210209A-1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
tert-Butyl alcohol	*	50.0		**125**	125.0	0	100.0	124.2	0.63	02/09/2021
Surr: Bromofluorobenzene	*			**49.9**	50.00		99.8			02/09/2021
Surr: Cyclohexane-d12	*			**48.3**	50.00		96.7			02/09/2021
Surr: Ethyl acetate-C13	*			**50.6**	50.00		101.1			02/09/2021
Surr: m-Xylene-d10	*			**50.0**	50.00		100.0			02/09/2021
Surr: n-Heptane-d16	*			**49.5**	50.00		98.9			02/09/2021
Surr: n-Hexane-d14	*			**50.2**	50.00		100.3			02/09/2021
Surr: o-Xylene-d10	*			**49.7**	50.00		99.4			02/09/2021
Surr: tert-Butanol-d10	*			**525**	500.0		105.0			02/09/2021
Surr: Tetrahydrofuran-d8	*			**51.0**	50.00		102.1			02/09/2021

Teklab, Inc. Environmental Laboratory

Quality Control Results

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Client: Alpha Analytical
Work Order: 21020388
Client Project: L2105226
Report Date: 12-Feb-21

EPA 600 1666A (MODIFIED), VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 173732 **SampType:** MS Units **µg/L**
SampID: 21020367-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
tert-Butyl alcohol	*	1000		**2470**	2500	0	99.0	1	212	02/09/2021
Surr: Bromofluorobenzene	*			**1000**	1000		100.0	70	130	02/09/2021
Surr: Cyclohexane-d12	*			**948**	1000		94.8	8	156	02/09/2021
Surr: Ethyl acetate-C13	*			**986**	1000		98.6	58	159	02/09/2021
Surr: m-Xylene-d10	*			**1000**	1000		100.4	70	130	02/09/2021
Surr: n-Heptane-d16	*			**985**	1000		98.5	14	128	02/09/2021
Surr: n-Hexane-d14	*			**976**	1000		97.6	5	157	02/09/2021
Surr: o-Xylene-d10	*			**999**	1000		99.9	70	130	02/09/2021
Surr: tert-Butanol-d10	*			**9880**	10000		98.8	40	160	02/09/2021
Surr: Tetrahydrofuran-d8	*			**987**	1000		98.7	42	178	02/09/2021

Batch 173732 **SampType:** MSD Units **µg/L** RPD Limit **25**
SampID: 21020367-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
tert-Butyl alcohol	*	1000		**2450**	2500	0	98.2	2474	0.80	02/09/2021
Surr: Bromofluorobenzene	*			**1000**	1000		100.1			02/09/2021
Surr: Cyclohexane-d12	*			**956**	1000		95.6			02/09/2021
Surr: Ethyl acetate-C13	*			**994**	1000		99.4			02/09/2021
Surr: m-Xylene-d10	*			**1000**	1000		100.0			02/09/2021
Surr: n-Heptane-d16	*			**991**	1000		99.1			02/09/2021
Surr: n-Hexane-d14	*			**975**	1000		97.5			02/09/2021
Surr: o-Xylene-d10	*			**997**	1000		99.7			02/09/2021
Surr: tert-Butanol-d10	*			**9860**	10000		98.6			02/09/2021
Surr: Tetrahydrofuran-d8	*			**992**	1000		99.2			02/09/2021

Teklab, Inc.
Environmental Laboratory

Receiving Check List

http://www.teklabinc.com/

Client: Alpha Analytical
Client Project: L2105226

Work Order: 21020388
Report Date: 12-Feb-21

Carrier: UPS

Received By: PRY

Completed by: Mary E. Kemp
On: 05-Feb-21
Mary E. Kemp

Reviewed by: Marvin L. Darling II
On: 05-Feb-21
Marvin L. Darling

Pages to follow: Chain of custody [1] Extra pages included [0]

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 3.2
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☑	No ☐	No VOA vials ☐
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

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

Subcontract Chain of Custody

Tek Lab, Inc.
5445 Horsehoe Lake Road
Collinsville, IL 62234-7425

21020388

Alpha Job Number
L2105226

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 508.439.5137
Email: nhunt@alphalab.com

Project Information

Project Location: NH
Project Manager: Nichole Hunt

Turnaround & Deliverables Information

Due Date: 02/12/21 (RUSH)
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2105226

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com Tert-Butyl Alcohol by Method 1671 Ethanol by Method 1666 3.2°C LT65 Ice,OHS PRH 2/5/21

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
21020388-001	EFFLUENT	02-03-21 13:45	WATER	Ethanol by EPA 1671 Revision A; Tert-Butyl-Alcohol	

Relinquished By:	Date/Time:	Received By:	Date/Time:
C Telear	2/4/21	(UPS)	2/5/21 0945

Form No: AL_subcoc

PRH 2/5/21

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-181605-1
Client Project/Site: 7-11 No 24433 (NH)

For:
AECOM
10 Orms Street
Suite 405
Providence, Rhode Island 02904

Attn: Mr. Luis A. Ferreira

Authorized for release by:
3/8/2021 5:19:54 PM

Lauren Evans, Project Manager I
(615)301-5034
Lauren.Evans@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: AECOM
Job ID: 480-181605-1
Project/Site: 7-11 No 24433 (NH)

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: AECOM
Project/Site: 7-11 No 24433 (NH)

Job ID: 480-181605-1

Job ID: 480-181605-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-181605-1

Comments
No additional comments.

Receipt
The samples were received on 3/3/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 7196A: The matrix spike (MS) recoveries for analytical batch 480-571221 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. Sample re-run at 2x dilution to confirm.

Methods 9040C: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: RECEIVING WATER (480-181605-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AECOM
Project/Site: 7-11 No 24433 (NH)

Job ID: 480-181605-1

Client Sample ID: EFFLUENT — Lab Sample ID: 480-181605-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hardness as calcium carbonate	260		4.00		mg/L	1		SM 2340C	Total/NA

Client Sample ID: RECEIVING WATER — Lab Sample ID: 480-181605-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0477		0.0100		mg/L	1		6010C	Total Recoverable
Ammonia	0.0800		0.0200		mg/L	1		350.1	Total/NA
pH	6.99	HF	0.100		SU	1		9040C	Total/NA
Temperature	20.7	HF	0.00100		Degrees C	1		9040C	Total/NA
Hardness as calcium carbonate	132		4.00		mg/L	1		SM 2340C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AECOM
Project/Site: 7-11 No 24433 (NH)

Job ID: 480-181605-1

Client Sample ID: EFFLUENT
Date Collected: 03/02/21 12:15
Date Received: 03/03/21 10:30

Lab Sample ID: 480-181605-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	260		4.00		mg/L			03/08/21 15:10	1

Client Sample Results

Client: AECOM
Project/Site: 7-11 No 24433 (NH)

Job ID: 480-181605-1

Client Sample ID: RECEIVING WATER

Date Collected: 03/02/21 13:00
Date Received: 03/03/21 10:30

Lab Sample ID: 480-181605-2

Matrix: Water

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0200		mg/L		03/04/21 14:08	03/05/21 15:23	1
Arsenic	ND		0.0150		mg/L		03/04/21 14:08	03/05/21 15:23	1
Cadmium	ND		0.00200		mg/L		03/04/21 14:08	03/05/21 15:23	1
Chromium	ND		0.00400		mg/L		03/04/21 14:08	03/05/21 15:23	1
Copper	ND		0.0100		mg/L		03/04/21 14:08	03/05/21 15:23	1
Lead	ND		0.0100		mg/L		03/04/21 14:08	03/05/21 15:23	1
Nickel	ND		0.0100		mg/L		03/04/21 14:08	03/05/21 15:23	1
Selenium	ND		0.0250		mg/L		03/04/21 14:08	03/05/21 15:23	1
Silver	ND		0.00600		mg/L		03/04/21 14:08	03/05/21 15:23	1
Zinc	**0.0477**		0.0100		mg/L		03/04/21 14:08	03/05/21 15:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		03/04/21 13:34	03/04/21 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**0.0800**		0.0200		mg/L			03/05/21 06:30	1
Chromium, hexavalent	ND	F1	0.0100		mg/L			03/03/21 12:00	1
Hardness as calcium carbonate	**132**		4.00		mg/L			03/08/21 15:10	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.99**	**HF**	0.100		SU			03/04/21 15:40	1
Temperature	**20.7**	**HF**	0.00100		Degrees C			03/04/21 15:40	1
Total Suspended Solids	ND		4000		ug/L			03/03/21 13:04	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-571378/1-A
Matrix: Water
Analysis Batch: 571627

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 571378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0200		mg/L		03/04/21 14:08	03/05/21 14:46	1
Arsenic	ND		0.0150		mg/L		03/04/21 14:08	03/05/21 14:46	1
Cadmium	ND		0.00200		mg/L		03/04/21 14:08	03/05/21 14:46	1
Chromium	ND		0.00400		mg/L		03/04/21 14:08	03/05/21 14:46	1
Copper	ND		0.0100		mg/L		03/04/21 14:08	03/05/21 14:46	1
Lead	ND		0.0100		mg/L		03/04/21 14:08	03/05/21 14:46	1
Nickel	ND		0.0100		mg/L		03/04/21 14:08	03/05/21 14:46	1
Selenium	ND		0.0250		mg/L		03/04/21 14:08	03/05/21 14:46	1
Silver	ND		0.00600		mg/L		03/04/21 14:08	03/05/21 14:46	1
Zinc	ND		0.0100		mg/L		03/04/21 14:08	03/05/21 14:46	1

Lab Sample ID: LCS 480-571378/2-A
Matrix: Water
Analysis Batch: 571627

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 571378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.200	0.2017		mg/L		101	80 - 120
Arsenic	0.200	0.2027		mg/L		101	80 - 120
Cadmium	0.200	0.2002		mg/L		100	80 - 120
Chromium	0.200	0.1990		mg/L		100	80 - 120
Copper	0.200	0.1975		mg/L		99	80 - 120
Lead	0.200	0.1962		mg/L		98	80 - 120
Nickel	0.200	0.1918		mg/L		96	80 - 120
Selenium	0.200	0.2012		mg/L		101	80 - 120
Silver	0.0500	0.04873		mg/L		97	80 - 120
Zinc	0.200	0.1942		mg/L		97	80 - 120

Lab Sample ID: 480-181605-A-1-C MS
Matrix: Water
Analysis Batch: 571627

Client Sample ID: 480-181605-A-1-C MS
Prep Type: Total Recoverable
Prep Batch: 571378

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		0.200	0.2091		mg/L		105	75 - 125
Arsenic	ND		0.200	0.2240		mg/L		112	75 - 125
Cadmium	ND		0.200	0.2101		mg/L		105	75 - 125
Chromium	ND		0.200	0.2059		mg/L		101	75 - 125
Copper	ND		0.200	0.2045		mg/L		100	75 - 125
Lead	ND		0.200	0.2114		mg/L		104	75 - 125
Nickel	ND		0.200	0.2089		mg/L		103	75 - 125
Selenium	ND		0.200	0.2132		mg/L		107	75 - 125
Silver	ND		0.0500	0.05132		mg/L		103	75 - 125
Zinc	0.0125		0.200	0.2176		mg/L		103	75 - 125

Lab Sample ID: 480-181605-A-1-D MSD
Matrix: Water
Analysis Batch: 571627

Client Sample ID: 480-181605-A-1-D MSD
Prep Type: Total Recoverable
Prep Batch: 571378

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		0.200	0.2093		mg/L		105	75 - 125	0	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-181605-A-1-D MSD
Matrix: Water
Analysis Batch: 571627

Client Sample ID: 480-181605-A-1-D MSD
Prep Type: Total Recoverable
Prep Batch: 571378

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		0.200	0.2227		mg/L		111	75 - 125	1	20
Cadmium	ND		0.200	0.2110		mg/L		106	75 - 125	0	20
Chromium	ND		0.200	0.2069		mg/L		102	75 - 125	0	20
Copper	ND		0.200	0.2081		mg/L		102	75 - 125	2	20
Lead	ND		0.200	0.2137		mg/L		105	75 - 125	1	20
Nickel	ND		0.200	0.2106		mg/L		104	75 - 125	1	20
Selenium	ND		0.200	0.2123		mg/L		106	75 - 125	0	20
Silver	ND		0.0500	0.05332		mg/L		107	75 - 125	4	20
Zinc	0.0125		0.200	0.2185		mg/L		103	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-571352/1-A
Matrix: Water
Analysis Batch: 571416

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571352

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		03/04/21 13:34	03/04/21 16:26	1

Lab Sample ID: LCS 480-571352/2-A
Matrix: Water
Analysis Batch: 571416

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571352

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	6.67	6.800		ug/L		102	80 - 120

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-571438/3
Matrix: Water
Analysis Batch: 571438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.0200		mg/L			03/05/21 06:26	1

Lab Sample ID: LCS 480-571438/4
Matrix: Water
Analysis Batch: 571438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.080		mg/L		108	90 - 110
Ammonia as NH3	1.22	1.314		mg/L		108	90 - 110

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-571221/3
Matrix: Water
Analysis Batch: 571221

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.0100		mg/L			03/03/21 12:00	1

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: LCS 480-571221/4
Matrix: Water
Analysis Batch: 571221

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hexavalent			0.0500	0.04984		mg/L		100	85 - 115		

Lab Sample ID: 480-181605-2 MS
Matrix: Water
Analysis Batch: 571221

Client Sample ID: RECEIVING WATER
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hexavalent	ND	F1	0.0500	0.03501	F1	mg/L		70	85 - 115		

Lab Sample ID: 480-181605-2 DU
Matrix: Water
Analysis Batch: 571221

Client Sample ID: RECEIVING WATER
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium, hexavalent	ND	F1	ND		mg/L				NC	20

Method: 9040C - pH

Lab Sample ID: LCS 480-571589/1
Matrix: Water
Analysis Batch: 571589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.031		SU		100	99 - 101		

Lab Sample ID: 480-181605-2 DU
Matrix: Water
Analysis Batch: 571589

Client Sample ID: RECEIVING WATER
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.99	HF		7.015		SU				0.4	5
Temperature	20.7	HF		20.80		Degrees C				0.5	10

Method: SM 2340C - Hardness, Total (mg/l as CaC03)

Lab Sample ID: MB 480-571741/3
Matrix: Water
Analysis Batch: 571741

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		2.00		mg/L			03/08/21 15:10	1

Lab Sample ID: LCS 480-571741/4
Matrix: Water
Analysis Batch: 571741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hardness as calcium carbonate			183	188.0		mg/L		103	90 - 110		

Method: SM 2340C - Hardness, Total (mg/l as CaC03) (Continued)

Lab Sample ID: 480-181605-1 MS
Matrix: Water
Analysis Batch: 571741

Client Sample ID: EFFLUENT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness as calcium carbonate	260		200	464.0		mg/L		102	74 - 130

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-571198/1
Matrix: Water
Analysis Batch: 571198

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1000		ug/L			03/03/21 13:04	1

Lab Sample ID: LCS 480-571198/2
Matrix: Water
Analysis Batch: 571198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	3010000	3004000		ug/L		100	88 - 110

Metals

Prep Batch: 571352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-2	RECEIVING WATER	Total/NA	Water	7470A	
MB 480-571352/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-571352/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 571378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-2	RECEIVING WATER	Total Recoverable	Water	3005A	
MB 480-571378/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 480-571378/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
480-181605-A-1-C MS	480-181605-A-1-C MS	Total Recoverable	Water	3005A	
480-181605-A-1-D MSD	480-181605-A-1-D MSD	Total Recoverable	Water	3005A	

Analysis Batch: 571416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-2	RECEIVING WATER	Total/NA	Water	7470A	571352
MB 480-571352/1-A	Method Blank	Total/NA	Water	7470A	571352
LCS 480-571352/2-A	Lab Control Sample	Total/NA	Water	7470A	571352

Analysis Batch: 571627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-2	RECEIVING WATER	Total Recoverable	Water	6010C	571378
MB 480-571378/1-A	Method Blank	Total Recoverable	Water	6010C	571378
LCS 480-571378/2-A	Lab Control Sample	Total Recoverable	Water	6010C	571378
480-181605-A-1-C MS	480-181605-A-1-C MS	Total Recoverable	Water	6010C	571378
480-181605-A-1-D MSD	480-181605-A-1-D MSD	Total Recoverable	Water	6010C	571378

General Chemistry

Analysis Batch: 571198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-2	RECEIVING WATER	Total/NA	Water	SM 2540D	
MB 480-571198/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-571198/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 571221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-2	RECEIVING WATER	Total/NA	Water	7196A	
MB 480-571221/3	Method Blank	Total/NA	Water	7196A	
LCS 480-571221/4	Lab Control Sample	Total/NA	Water	7196A	
480-181605-2 MS	RECEIVING WATER	Total/NA	Water	7196A	
480-181605-2 DU	RECEIVING WATER	Total/NA	Water	7196A	

Analysis Batch: 571438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-2	RECEIVING WATER	Total/NA	Water	350.1	
MB 480-571438/3	Method Blank	Total/NA	Water	350.1	
LCS 480-571438/4	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 571589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-2	RECEIVING WATER	Total/NA	Water	9040C	

General Chemistry (Continued)

Analysis Batch: 571589 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-571589/1	Lab Control Sample	Total/NA	Water	9040C	
480-181605-2 DU	RECEIVING WATER	Total/NA	Water	9040C	

Analysis Batch: 571741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181605-1	EFFLUENT	Total/NA	Water	SM 2340C	
480-181605-2	RECEIVING WATER	Total/NA	Water	SM 2340C	
MB 480-571741/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-571741/4	Lab Control Sample	Total/NA	Water	SM 2340C	
480-181605-1 MS	EFFLUENT	Total/NA	Water	SM 2340C	

Lab Chronicle

Client: AECOM
Project/Site: 7-11 No 24433 (NH)

Job ID: 480-181605-1

Client Sample ID: EFFLUENT
Date Collected: 03/02/21 12:15
Date Received: 03/03/21 10:30

Lab Sample ID: 480-181605-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2340C		1	571741	03/08/21 15:10	MJB	TAL BUF

Client Sample ID: RECEIVING WATER
Date Collected: 03/02/21 13:00
Date Received: 03/03/21 10:30

Lab Sample ID: 480-181605-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			571378	03/04/21 14:08	KMP	TAL BUF
Total Recoverable	Analysis	6010C		1	571627	03/05/21 15:23	AMH	TAL BUF
Total/NA	Prep	7470A			571352	03/04/21 13:34	BMB	TAL BUF
Total/NA	Analysis	7470A		1	571416	03/04/21 16:30	BMB	TAL BUF
Total/NA	Analysis	350.1		1	571438	03/05/21 06:30	CLT	TAL BUF
Total/NA	Analysis	7196A		1	571221	03/03/21 12:00	KEB	TAL BUF
Total/NA	Analysis	9040C		1	571589	03/04/21 15:40	KEB	TAL BUF
Total/NA	Analysis	SM 2340C		1	571741	03/08/21 15:10	MJB	TAL BUF
Total/NA	Analysis	SM 2540D		1	571198	03/03/21 13:04	CSS	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: AECOM
Job ID: 480-181605-1
Project/Site: 7-11 No 24433 (NH)

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Hampshire	NELAP	2337	11-19-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Water	Mercury
9040C		Water	pH
9040C		Water	Temperature

Method Summary

Client: AECOM
Project/Site: 7-11 No 24433 (NH)

Job ID: 480-181605-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
7196A	Chromium, Hexavalent	SW846	TAL BUF
9040C	pH	SW846	TAL BUF
SM 2340C	Hardness, Total (mg/l as CaC03)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: AECOM
Project/Site: 7-11 No 24433 (NH)

Job ID: 480-181605-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-181605-1	EFFLUENT	Water	03/02/21 12:15	03/03/21 10:30	
480-181605-2	RECEIVING WATER	Water	03/02/21 13:00	03/03/21 10:30	

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CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

☐ Standard TAT - 5 business days

☑ Rush TAT - Date Needed: 3 days

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: Luis Ferreira
AECOM
10 Orms St.,
Providence, RI 02904
Telephone #: 4012745685
Project Mgr: Luis Ferreira

Invoice To: Same
P.O No.: Quote #:

Project No: 60617854
Site Name: 7-Eleven Store #24433
Location: Nashua State: NH
Sampler(s): Tony Wang-Li

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= 12=

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= X2= X3=

G= Grab C=Composite

List Preservative Code below:

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: pH and hexavalent Chromium	Ammonia (Nitrogen-Ammonia)	TSS	Hardness	*Total recoverable metals				Check if chlorinated
										F	3	F	4	4				
	Effluent	3/2/2021	1215	G	GW				1				x					☐
	Receiving water	3/2/2021	1300	G	SW				5	x	x	x	x	x				☐
																		☐
																		☐
																		☐
																		☐
																		☐
																		☐
																		☐
	* For total metals please																	☐
	refer to the e-mail communications																	☐

480-181605 Chain of Custody

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☑ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☑ Other: Attached via email
State-specific reporting standards:

#1 2.9

Relinquished by:	Received by:	Date:	Time:	Temp °C
		3/2/21	1345	Observed 1.4
		3/2/21	1523	Correction Factor +1
	Cwallace	3/3/21	1030	Corrected 2.4
				IR ID # 6

☐ EDD format:
☑ E-mail to: Luis.ferreira@aecom.com
Noushin.fallahpour@aecom.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Sample shipping address: 11 Almgren Drive • Agawam, MA 01001 • 413-789-9018 • www.EurofinsUS.com/Spectrum

Rev. Sep 2015

3/8/2021

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-181605-1

Login Number: 181605
List Number: 1
Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Enter number values in green boxes below

Enter values in the units specified

↓

0.00031	Q_R = Enter upstream flow in **MGD**
0.072	Q_P = Enter discharge flow in **MGD**
0	Downstream 7Q10

Enter a dilution factor, if other than zero

↓

1

Enter values in the units specified

↓

260	C_d = Enter influent hardness in **mg/L** $CaCO_3$
132	C_s = Enter receiving water hardness in **mg/L** $CaCO_3$

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

↓

7.76	pH in **Standard Units**
4.1	Temperature in **°C**
80	Ammonia in **µg/L**
132	Hardness in **mg/L** $CaCO_3$
0	Salinity in **ppt**
0	Antimony in **µg/L**
0	Arsenic in **µg/L**
0	Cadmium in **µg/L**
0	Chromium III in **µg/L**
0	Chromium VI in **µg/L**
0	Copper in **µg/L**
0	Iron in **µg/L**
0	Lead in **µg/L**
0	Mercury in **µg/L**
0	Nickel in **µg/L**
0	Selenium in **µg/L**
0	Silver in **µg/L**
47.7	Zinc in **µg/L**

Enter **influent** concentrations in the units specified

↓

1800000	TRC in **µg/L**
0.392	Ammonia in **mg/L**
4	Antimony in **µg/L**
3	Arsenic in **µg/L**
0.2	Cadmium in **µg/L**
10	Chromium III in **µg/L**
10	Chromium VI in **µg/L**
4	Copper in **µg/L**
3090	Iron in **µg/L**
1.5	Lead in **µg/L**
0.2	Mercury in **µg/L**
2.9	Nickel in **µg/L**
5	Selenium in **µg/L**
0.4	Silver in **µg/L**
11	Zinc in **µg/L**
5	Cyanide in **µg/L**
30	Phenol in **µg/L**
15	Total Dichlorobenzene in **µg/L**
27.2	Total Phthalates in **µg/L**
5	Diethylhexylphthalate in **µg/L**
0.1	Benzo(a)anthracene in **µg/L**
0.1	Benzo(a)pyrene in **µg/L**
0.1	Benzo(b)fluoranthene in **µg/L**
0.1	Benzo(k)fluoranthene in **µg/L**
0.1	Chrysene in **µg/L**
0.1	Dibenzo(a,h)anthracene in **µg/L**
0.1	Indeno(1,2,3-cd)pyrene in **µg/L**

Notes:

Freshwater: Q_R equal to the 7Q10; enter alternate Q_R if approved by the State; enter 0 if no dilution factor approved
Saltwater (estuarine and marine): enter Q_R if approved by the State; enter 0 if no entry
Discharge flow is equal to the design flow or 1 MGD, whichever is less
Downstream 7Q10 an optional entry for Q_R; leave 0 if no entry

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

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

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

I. Dilution Factor Calculation Method

A. 7Q10

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

B. Dilution Factor

Calculated as follows:

$$Df = \frac{Q_R + Q_P}{Q_P} \times 0.9$$

Q_R = 7Q10 in MGD

Q_P = Discharge flow, in MGD

0.9 = Factor to reserve 10% of the receiving water's assimilitive capacity

II. Effluent Limitation Calculation Method

A. Calculate Water Quality Criterion:

Step 1. Downstream hardness, calculated as follows:

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

C_r = Downstream hardness in mg/L

Q_d = Discharge flow in MGD

C_d = Discharge hardness in mg/L

Q_s = Upstream flow (7Q10) in MGD

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

Q_r = Downstream receiving water flow in MGD

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

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

m_c = Pollutant-specific coefficient (m_a for silver)

b_c = Pollutant-specific coefficient (b_a for silver)

ln = Natural logarithm

h = Hardness calculated in Step 1

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

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

B. Calculate WQBEL:

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

$$C_d = \frac{[Q_r (C_r \times 0.9) - Q_s C_s]}{Q_d}$$

C_r = Water quality criterion in µg/L

Q_d = Discharge flow in MGD

C_d = WQBEL in µg/L

Q_s = Upstream flow (7Q10) in MGD

C_s = Ustream (receiving water) concentration in µg/L

Q_r = Downstream receiving water flow in MGD

0.9 = Factor to reserve 10% of the receiving water's assimilitive capacity

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

$$C_d = (Q_r/Q_d) \times C_r \times 0.9$$

C_r = Water quality criterion in µg/L
Q_d = Discharge flow in MGD
Q_r = Downstream receiving water flow in MGD
0.9 = Factor to reserve 10% of the receiving water's assimilitive capacity

C. Determine if a WQBEL applies:

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

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

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

The WQBEL applies if:

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

AND

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

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

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

AND

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

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	**11**	µg/L	50	µg/L
Total Suspended Solids	**30**	mg/L	---			
Antimony	**206**	µg/L	4.3	mg/L		
Arsenic	**104**	µg/L	10	µg/L		
Cadmium	**10.2**	µg/L	0.5485	µg/L		
Chromium III	**323**	µg/L	188.2	µg/L		
Chromium VI	**323**	µg/L	11.4	µg/L		
Copper	**242**	µg/L	21.1	µg/L		
Iron	5000	µg/L	**1000**	µg/L		
Lead	**160**	µg/L	10.71	µg/L		
Mercury	**0.739**	µg/L	0.91	µg/L		
Nickel	**1450**	µg/L	116.9	µg/L		
Selenium	**235.8**	µg/L	5.0	µg/L		
Silver	**35.1**	µg/L	19.5	µg/L		
Zinc	**420**	µg/L	268.7	µg/L		
Cyanide	**178**	mg/L	5.2	µg/L	---	µg/L
B. Non-Halogenated VOCs						
Total BTEX	**100**	µg/L	---			
Benzene	**5.0**	µg/L	---			
1,4 Dioxane	**200**	µg/L	---			
Acetone	**7970**	µg/L	---			
Phenol	**1,080**	µg/L	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	**---**	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	0.1	µg/L
Benzo(a)pyrene	1.0	µg/L	**0.0038**	µg/L	0.1	µg/L
Benzo(b)fluoranthene	1.0	µg/L	**0.0038**	µg/L	0.1	µg/L
Benzo(k)fluoranthene	1.0	µg/L	**0.0038**	µg/L	0.1	µg/L
Chrysene	1.0	µg/L	**0.0038**	µg/L	0.1	µg/L
Dibenzo(a,h)anthracene	1.0	µg/L	**0.0038**	µg/L	0.1	µg/L
Indeno(1,2,3-cd)pyrene	1.0	µg/L	**0.0038**	µg/L	0.1	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	---			

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Location NASHUA, NH Date 3/2/21

Project / Client 7-ELEVEN #24433

SUNNY/WINDY 20°F

1030 AT CHEMSTOCK OFFICE
PICKING UP EQUIPMENT AND
GLASSWARE.

1200 ON-SITE
MW-10 - NEXT TO UST TANK
PAD.

1215 COLLECTS A GMB SAMPLE
FROM well MW-10 - LABELED
"EFFLUENT" @ 1215
TEMP 9.5 °C
PH 7.32
1 500 ml HNO3 - PRESERVED
YSI PRO SERIES
SERIAL # 10E-100342
CALIBRATED BY US ENV.

1230 DOWNSTREAM LOCATION
BEHIND LEDA LANES
CONCRETE CULVERT

Location NASHUA, NH Date 3/21/24

Project / Client 7-ELEVEN # 24433

SUNNY/WINDY 20°F

DISCHARGE WATER SAMPLE

pH 7.76

TEMP 4.1°C

1	500 ml	H_2SO_4
2	500 ml	HNO_3
1	500 ml	—
1	1000 ml	—

SAMPLE COLLECTED NEXT TO CONCRETE CULVERT @ 1300

1330 AT CHEMSTORE OFFICE
DROPPED OFF EQUIPMENT
- WAITING FOR EUROFINS