



89 Crawford Street
Leominster, Massachusetts 01453
Tel: 774.450.7177
Fax: 888.835.0617
www.lrt-llc.net

April 1, 2019

US Environmental Protection Agency
Dewatering GP Processing
Industrial Permit Unit (OEP 06- 4)
5 Post Office Square – Suite 100
Boston, MA 02109-3912

Reference: Notice of Intent (NOI) - Dewatering General Permit (DGP)
1080 Beacon Street
Brookline, Massachusetts

Dear Sir/Madam:

On behalf of South Coast Improvements Co. (South Coast), Lockwood Remediation Technologies, LLC (LRT) has prepared this Notice of Intent (NOI) requesting a determination of coverage under the United States Environmental Protection Agency's (EPA's) Dewatering General Permit (DGP), pursuant EPA's National Pollutant Discharge Elimination System (NPDES) program. This NOI was prepared in accordance with the general requirements of the NPDES and related guidance documentation provided by EPA. The completed NOI Form is provided in **Appendix A**.

Site Information

This NOI has been prepared for the management of water that will be generated during dewatering activities associated with improvements within the basement level of a residential building located at 1080 Beacon Street, Massachusetts (the Site). The Site is not listed as a disposal site with the Massachusetts Department of Environmental Protection (MassDEP). A Site Locus is provided as **Figure 1** and a Site Plan is provided as **Figure 2**.

Work Summary

Discharge Information

A summary of the laboratory analytical results is provided in **Table 1**. The laboratory analytical summary tables and the laboratory analytical reports are included in **Appendix B**. The laboratory results for the source water sample summarize that all analyzed constituent concentrations are below the respective NPDES Effluent Limitations. Details of the water treatment system are provided below.

Water Treatment System

A water treatment system schematic is provided as **Figure 3**. Cutsheets of the system components are included in **Appendix C**. Source water will be pumped to a treatment system with a design flow of up to 100 gallons per minute (gpm); the average effluent flow of the system is estimated to be 50 gpm, and the maximum flow will not exceed 100 gpm. Source water will enter one 2,000-gallon weir tank. From the weir tank, the water will be pumped to a triple bag filter skid (with three single bag filters). Discharge from the bag filters will pass through a flow/totalizer meter prior to discharge then into a storm drain which discharges directly into the Charles River.

Consultation with Federal Services

LRT reviewed online electronic data viewers and databases from the Massachusetts Geographical Information System (MassGIS), the Massachusetts Division of Fisheries and Wildlife (MassWildlife; Natural Heritage and Endangered Species Program), and the U.S. National Parks Service Natural Historic Places (NPS). Based on this review, the Site and the point where the proposed discharge reaches the receiving storm drain are not located within an Area of Critical Environmental Concern (ACEC). The Site is considered a historic site by NPS. A letter was sent to the Massachusetts Historical Commission for their review and comment on the project on March 8, 2019. The Massachusetts Historical Commission had no response or comment within the 10-business day window allotted. Physical and verbal confirmation of delivery were given through UPS tracking and through conversions conducted with Massachusetts historical commination employees.

Coverage under NPDES DGP

It is our opinion that the proposed discharge is eligible for coverage under the NPDES DGP. On behalf of South Coast Improvements Co., LRT is requesting coverage under the NPDES DGP for the discharge of treated water to the Charles River in support of construction dewatering activities that are to take place at 1080 Beacon Street, Brookline MA.

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

Please feel free to contact us at 774-450-7177 if you have any questions or if you require additional information.

Sincerely,
Lockwood Remediation Technologies, LLC

Jacob Jennings

Jacob Jennings

Paul Lockwood

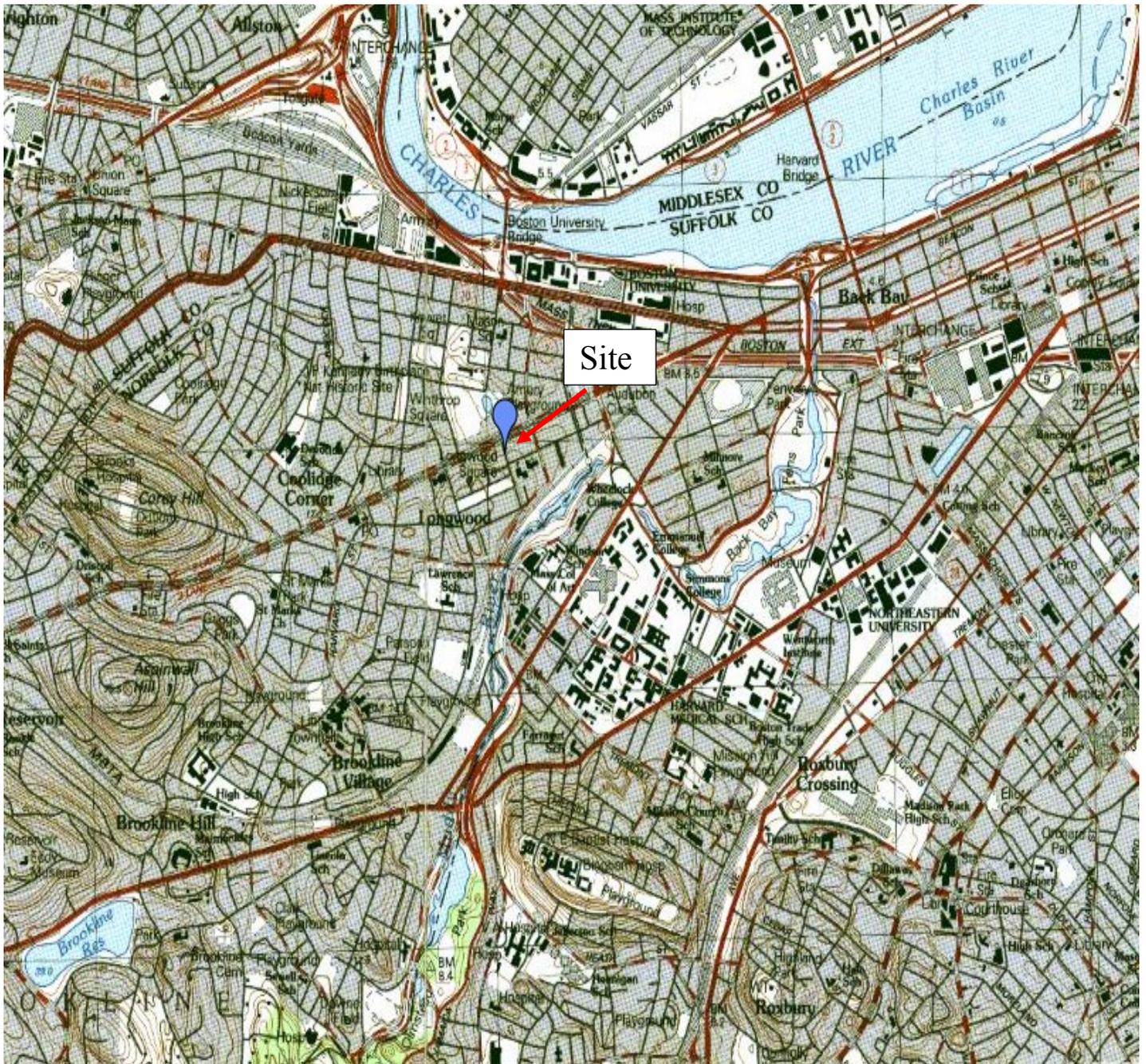
Paul Lockwood
President

Encl: Figure 1 - Locus Plan
Figure 2 - Site Plan
Figure 3 - Water Treatment System Schematic
Appendix A - NOI Form
Appendix B - Laboratory Data
Appendix C - Water Treatment System
Appendix D - Supplemental Information

cc.

Alex Browne via email

Figures



Source: MassGIS Oliver

Notes

1. Figure is not to scale.



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Figure 1 – Locus Plan
 1080 Beacon Street
 Brookline, MA



Source: The city of Brookline Engineering / transportation Department

Notes

1. Figure is not to scale.
2. Sample location in basement of 1080 Beacon Street

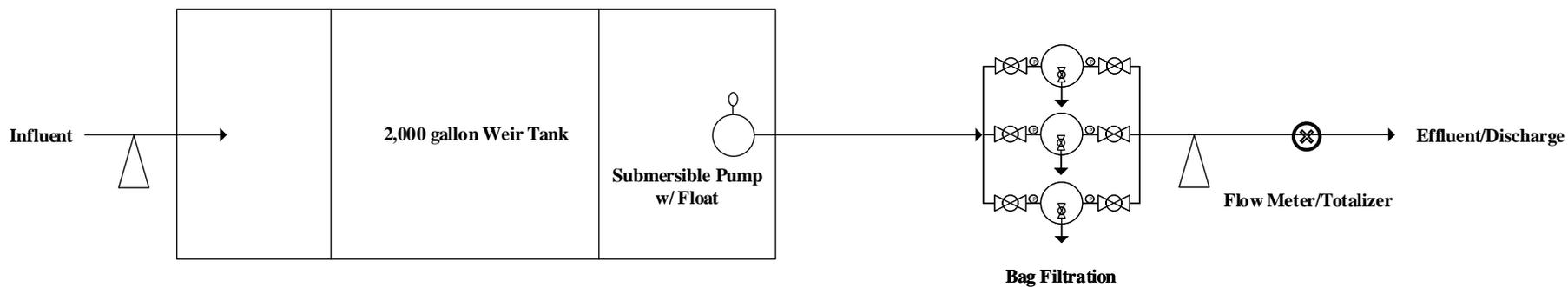
Key

- Discharge location
- Water treatment system location
- Pre-characterization sample location



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Figure 2 – Site plan
 1080 Beacon Street
 Brookline, Massachusetts



Notes:

- 1.) Figure is not to scale

Key:

Piping/Hose
Sample Port



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

DESIGNED BY: LRT

DRAWN BY: BAW

CHECKED BY:

DATE:

Water Treatment System Detail

PROJECT No.
2-1823

FIGURE No.

Appendix A
NOI Form

II. Suggested Notice of Intent (NOI) Format

1. General facility information. Please provide the following information about the facility.

a) Name of facility: 1080 Beacon Street		Mailing Address for the Facility:	
b) Location Address of the Facility (if different from mailing address): 1080 Beacon Street Brookline, MA	Facility Location	Type of Business: Residential	
	longitude: <u>-71.110730</u> latitude: <u>42.345400</u>	Facility SIC codes:	
c) Name of facility owner: <u>1080 Beacon Street Condominium / Eric Gustafson</u> Owner's email: <u>EGustafson@gcconsultinggroup.co</u> Owner's Tel #: <u>(781) 632-5291</u> Owner's Fax #: _____ Address of owner (if different from facility address) Owner is (check one): 1. Federal _____ 2. State _____ 3. Private <input checked="" type="checkbox"/> 4. Other _____ (Describe) _____			
Legal name of Operator, if not owner: <u>South Coast Improvement Company</u> Operator Contact Name: <u>Alex Browne</u> Operator Tel Number: <u>(774) 260-0986</u> Fax Number: _____ Operator's email: <u>alex.browne@southcoastimprovement.com</u> Operator Address (if different from owner) 13 Marconi Lane Marion, MA 02738			
d) Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water. Map attached? <input checked="" type="checkbox"/>			
e) Check Yes or No for the following: 1. Has a prior NPDES permit been granted for the discharge? Yes _____ No <input checked="" type="checkbox"/> If Yes, Permit Number: _____ 2. Is the discharge a "new discharger" as defined by 40 CFR Section 122.2? Yes <input checked="" type="checkbox"/> No _____ 3. Is the facility covered by an individual NPDES permit? Yes _____ No <input checked="" type="checkbox"/> If Yes, Permit Number _____ 4. Is there a pending application on file with EPA for this discharge? Yes _____ No <input checked="" type="checkbox"/> If Yes, date of submittal: _____			

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed)

a) Name of receiving water into which discharge will occur: Charles River
State Water Quality Classification: Class B Freshwater: Yes Marine Water: No

b) Describe the discharge activities for which the owner/applicant is seeking coverage:

- ✓ 1. Construction dewatering of groundwater intrusion and/or storm water accumulation.
- 2. Short-term or long-term dewatering of foundation sumps.
- 3. Other.

c) Number of outfalls 1

For each outfall:

d) Estimate the maximum daily and average monthly flow of the discharge (in gallons per day – GPD). Max Daily Flow 144,000 GPD
Average Monthly Flow 72,000 GPD

e.) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH 8.3 Min pH 6.5

f.) Identify the source of the discharge (i.e. potable water, surface water, or groundwater). If groundwater, the facility shall submit effluent test results, as required in Section 4.4.5 of the General Permit.

g.) What treatment does the wastewater receive prior to discharge?

h.) Is the discharge continuous? Yes _____ No If no, is the discharge periodic (P) (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B) I
If (P), number of days or months per year of the discharge _____ and the specific months of discharge _____;
If (I), number of days/year there is a discharge 60
Is the discharge temporary? Yes No _____
If yes, approximate start date of dewatering 4/15/2019 approximate end date of dewatering 6/15/2019

i.) Latitude and longitude of each discharge within 100 feet (See http://www.epa.gov/tri/report/siting_tool): Outfall 1: long. -71.106282 lat. 42.351624; Outfall 2: long. _____ lat. _____; Outfall 3: long. _____ lat. _____.

j.) If the source of the discharge is potable water, please provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water and attach any calculation sheets used to support stream flow and dilution calculations _____ cfs
(See Appendix VII for equations and additional information)

MASSACHUSETTS FACILITIES: See Section 3.4 and Appendix 1 of the General Permit for more information on Areas of Critical Environmental Concern (ACEC):

- k.) Does the discharge occur in an ACEC? Yes _____ No
- If yes, provide the name of the ACEC: _____

3. Contaminant Information

- a) Are any pH neutralization and/or dechlorination chemicals used in the discharge? If so, include the chemical name and manufacturer; maximum and average daily quantity used as well as the maximum and average daily expected concentrations (mg/l) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC₅₀ in percent for aquatic organism(s)).
- b) Please report any known remediation activities or water-quality issues in the vicinity of the discharge.

4. Determination of Endangered Species Act Eligibility: Provide documentation of ESA eligibility as required at Part 3.4 and Appendix IV. In addition, respond to the following questions.

- a) Which of the three eligibility criteria listed in Appendix IV, Criterion (A, B, or C) have you met? c _____
- b) Please attach documentation with your NOI supporting your response. Please see Appendix IV for acceptable documentation

5. Documentation of National Historic Preservation Act requirements: Please respond to the following questions:

- a) See Screening Process in Appendix III and respond to questions regarding your site and any historic properties listed or eligible for listing on the National Register of Historic Places. Question 1: Yes _____ No ; Question 2: No _____ Yes
- b) Have any State or Tribal historic preservation officers been consulted in this determination? Yes or No _____ If yes, attach the results of the consultation(s).
- c) Which of the three National Historic Preservation Act eligibility criterion listed in Appendix III, Criterion (A, B, or C) have you met? _____
- d) Is the project located on property of religious or cultural significance to an Indian Tribe? Yes _____ or No If yes, provide that name of the Indian Tribe associated with the property. _____

6. Supplemental Information: Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit

7. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22 (see below) including the following certification:

I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the dewatering system; (2) the discharge consists solely of dewatering and authorized pH adjustment and/or dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product or finished product; (4) if the discharge of dewatering subsequently mixes with other permitted wastewater (i.e. stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for dewatering discharge; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act; and (6) this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate 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, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility Name:	1080 Beacon St,
Operator signature:	
Print Full Name and Title:	Alex Browne Project Manager
Date:	3/26/19

Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

Appendix B
Laboratory Data

TABLE 1

Precharacterization Data Summary Table
 1080 Beacon St
 Brookline, Massachusetts

	Sample Date	2/28/2019
	Discharge Standard	--
Analysis	Sample ID	Sample 1
pH	6.5-8.3	7.6
Total Suspended Solids (TSS) (mg/l)	30	ND
Hardness (mg/l)	Monitor Only	460
Chloride (mg/l)	Monitor Only	95.000
Total Metals		
Arsenic	104	4.2
Cadmium	0.25	0.12
Chromium	74	2
Copper	9.0	6
Iron	1,000	ND
Mercury	0.74	ND
Nickel	52	5.2
Lead	2.5	1.5
Antimony	206	1.2
Silver	3.2	ND
Zinc	120	6.3

ND - Not detect

Note:

Discharge Standards are NPDES RGP Standards

All data reported as ug/L unless otherwise specified.

-- = Not Analyzed

March 6, 2019

Paul Lockwood
Lockwood Remediation Technologies, LLC
89 Crawford Street
Leominster, MA 01453

Project Location: 1080 Beacon St., Brookline, MA
Client Job Number:
Project Number: 3265
Laboratory Work Order Number: 19C0033

Enclosed are results of analyses for samples received by the laboratory on March 1, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive style with a large, prominent 'K' and 'M'.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
19C0033-01	5
Sample Preparation Information	7
QC Data	8
Metals Analyses (Total)	8
B224970	8
B224995	8
B224997	9
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	10
B224982	10
B225001	10
Flag/Qualifier Summary	11
Certifications	12
Chain of Custody/Sample Receipt	13

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Lockwood Remediation Technologies, LLC
 89 Crawford Street
 Leominster, MA 01453
 ATTN: Paul Lockwood

REPORT DATE: 3/6/2019

PURCHASE ORDER NUMBER: 3265

PROJECT NUMBER: 3265

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19C0033

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

PROJECT LOCATION: 1080 Beacon St., Brookline, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
S1	19C0033-01	Ground Water		EPA 300.0 SM21-22 2540D SW-846 6010 SW-846 6010D SW-846 6020B SW-846 7470A	

CASE NARRATIVE SUMMARY

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

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

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

Project Location: 1080 Beacon St., Brookline, MA

Sample Description:

Work Order: 19C0033

Date Received: 3/1/2019

Field Sample #: S1

Sample ID: 19C0033-01

Start Date/Time: 2/22/2019 10:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 3/1/2019 12:30:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	1.2	1.0	0.096	µg/L	1		SW-846 6020B	3/5/19	3/6/19 9:42	MJH
Arsenic	4.2	0.40	0.36	µg/L	1		SW-846 6020B	3/5/19	3/6/19 9:42	MJH
Cadmium	0.12	0.50	0.068	µg/L	1		SW-846 6020B	3/5/19	3/6/19 9:42	MJH
Chromium	2.0	1.0	0.43	µg/L	1		SW-846 6020B	3/5/19	3/6/19 9:42	MJH
Copper	6.0	5.0	0.90	µg/L	1		SW-846 6020B	3/5/19	3/6/19 9:42	MJH
Iron	ND	0.050	0.040	mg/L	1		SW-846 6010D	3/5/19	3/6/19 11:23	QNW
Lead	1.5	1.0	0.24	µg/L	1		SW-846 6020B	3/5/19	3/6/19 9:42	MJH
Mercury	ND	0.00010	0.000034	mg/L	1		SW-846 7470A	3/5/19	3/6/19 8:56	TBC
Nickel	5.2	5.0	1.2	µg/L	1		SW-846 6020B	3/5/19	3/6/19 9:42	MJH
Silver	ND	0.50	0.075	µg/L	1		SW-846 6020B	3/5/19	3/6/19 9:42	MJH
Zinc	6.3	10	4.9	µg/L	1		SW-846 6020B	3/5/19	3/6/19 9:42	MJH
Hardness	460			mg/L	1		SW-846 6010	3/5/19	3/6/19 11:23	QNW

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Project Location: 1080 Beacon St., Brookline, MA

Sample Description:

Work Order: 19C0033

Date Received: 3/1/2019

Field Sample #: S1

Sample ID: 19C0033-01

Start Date/Time: 2/22/2019 10:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 3/1/2019 12:30:00PM

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	95	5.0	1.5	mg/L	5		EPA 300.0	3/5/19	3/5/19 17:34	IS
Total Suspended Solids	ND	2.0		mg/L	1		SM21-22 2540D	3/5/19	3/5/19 19:22	LL

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Sample Extraction Data

Prep Method: EPA 300.0-EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19C0033-01 [S1]	B224982	10.0	10.0	03/05/19

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
19C0033-01 [S1]	B225001	250	03/05/19

Prep Method: SW-846 3005A-SW-846 6010

Lab Number [Field ID]	Batch	Initial [mL]	Date
19C0033-01 [S1]	B224997	50.0	03/05/19

Prep Method: SW-846 3005A-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19C0033-01 [S1]	B224997	50.0	50.0	03/05/19

Prep Method: SW-846 3005A-SW-846 6020B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19C0033-01 [S1]	B224995	50.0	50.0	03/05/19

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19C0033-01 [S1]	B224970	6.00	6.00	03/05/19

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B224970 - SW-846 7470A Prep										
Blank (B224970-BLK1) Prepared: 03/05/19 Analyzed: 03/06/19										
Mercury	ND	0.00010	mg/L							
LCS (B224970-BS1) Prepared: 03/05/19 Analyzed: 03/06/19										
Mercury	0.00401	0.00010	mg/L	0.00400		100	80-120			
LCS Dup (B224970-BSD1) Prepared: 03/05/19 Analyzed: 03/06/19										
Mercury	0.00400	0.00010	mg/L	0.00400		100	80-120	0.110	20	
Batch B224995 - SW-846 3005A										
Blank (B224995-BLK1) Prepared: 03/05/19 Analyzed: 03/06/19										
Antimony	0.31	1.0	µg/L							J
Arsenic	ND	0.40	µg/L							
Cadmium	ND	0.50	µg/L							
Chromium	0.84	1.0	µg/L							
Copper	ND	5.0	µg/L							
Lead	ND	1.0	µg/L							
Nickel	ND	5.0	µg/L							
Silver	ND	0.50	µg/L							
Zinc	ND	10	µg/L							
LCS (B224995-BS1) Prepared: 03/05/19 Analyzed: 03/06/19										
Antimony	536	10	µg/L	500		107	80-120			
Arsenic	522	4.0	µg/L	500		104	80-120			
Cadmium	531	5.0	µg/L	500		106	80-120			
Chromium	528	10	µg/L	500		106	80-120			
Copper	1030	50	µg/L	1000		103	80-120			
Lead	534	10	µg/L	500		107	80-120			
Nickel	525	50	µg/L	500		105	80-120			
Silver	519	5.0	µg/L	500		104	80-120			
Zinc	1050	100	µg/L	1000		105	80-120			
LCS Dup (B224995-BSD1) Prepared: 03/05/19 Analyzed: 03/06/19										
Antimony	539	10	µg/L	500		108	80-120	0.397	20	
Arsenic	525	4.0	µg/L	500		105	80-120	0.472	20	
Cadmium	533	5.0	µg/L	500		107	80-120	0.247	20	
Chromium	531	10	µg/L	500		106	80-120	0.492	20	
Copper	1040	50	µg/L	1000		104	80-120	0.975	20	
Lead	535	10	µg/L	500		107	80-120	0.204	20	
Nickel	528	50	µg/L	500		106	80-120	0.571	20	
Silver	521	5.0	µg/L	500		104	80-120	0.481	20	
Zinc	1070	100	µg/L	1000		107	80-120	1.19	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B224997 - SW-846 3005A										
Blank (B224997-BLK1)				Prepared: 03/05/19 Analyzed: 03/06/19						
Iron	ND	0.050	mg/L							
LCS (B224997-BS1)				Prepared: 03/05/19 Analyzed: 03/06/19						
Iron	4.22	0.050	mg/L	4.00		106	80-120			
LCS Dup (B224997-BSD1)				Prepared: 03/05/19 Analyzed: 03/06/19						
Iron	4.28	0.050	mg/L	4.00		107	80-120	1.40	20	
Duplicate (B224997-DUP1)				Source: 19C0033-01			Prepared: 03/05/19 Analyzed: 03/06/19			
Iron	ND	0.050	mg/L		ND			NC	20	
Matrix Spike (B224997-MS1)				Source: 19C0033-01 Prepared: 03/05/19 Analyzed: 03/06/19						
Iron	4.17	0.050	mg/L	4.00	ND	104	75-125			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B224982 - EPA 300.0										
Blank (B224982-BLK1)										
Prepared & Analyzed: 03/05/19										
Chloride	ND	1.0	mg/L							
LCS (B224982-BS1)										
Prepared & Analyzed: 03/05/19										
Chloride	4.6	1.0	mg/L	5.00		91.9	90-110			
LCS Dup (B224982-BSD1)										
Prepared & Analyzed: 03/05/19										
Chloride	4.6	1.0	mg/L	5.00		92.0	90-110	0.113	20	
Batch B225001 - SM21-22 2540D										
Blank (B225001-BLK1)										
Prepared & Analyzed: 03/05/19										
Total Suspended Solids	ND	2.5	mg/L							
LCS (B225001-BS1)										
Prepared & Analyzed: 03/05/19										
Total Suspended Solids	162	10	mg/L	200		81.0	64.3-117			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

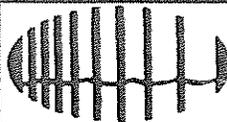
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 300.0 in Water</i>	
Chloride	NC,NY,MA,VA,ME,NH,CT,RI
<i>SM21-22 2540D in Water</i>	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
<i>SW-846 6010 in Water</i>	
Hardness	CT,MA,NH,NY
<i>SW-846 6010D in Water</i>	
Iron	CT,NH,NY,ME,VA,NC
<i>SW-846 6020B in Water</i>	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<i>SW-846 7470A in Water</i>	
Mercury	CT,NH,NY,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

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



con-test[®]
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client LRT

Received By SL Date 3/1/14 Time 1800

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp -3
By Blank # _____ Actual Temp _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? T

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

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

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? F

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? _____

Who was notified? _____

Who was notified? Mimb

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid KA Base _____

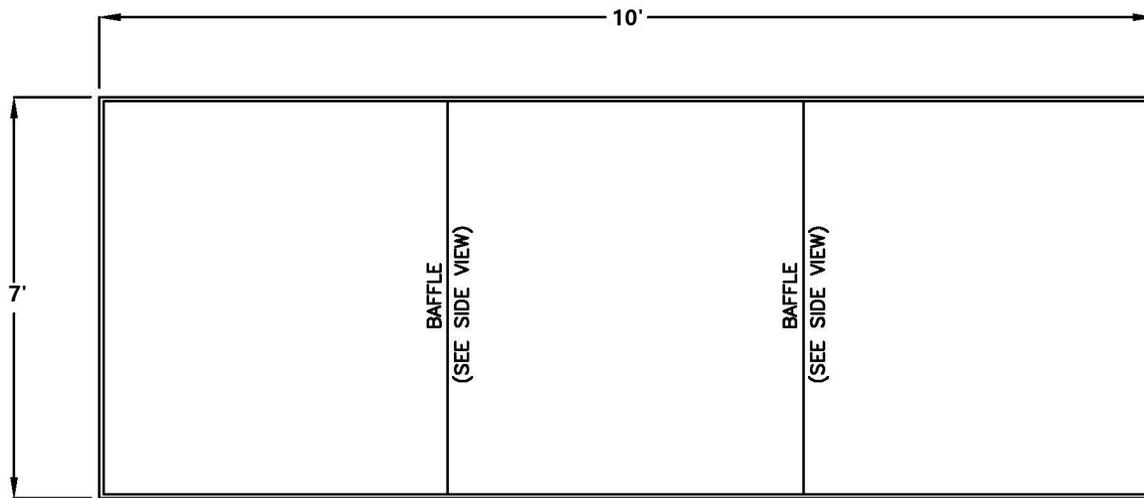
Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	1	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	3	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic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

Unused Media

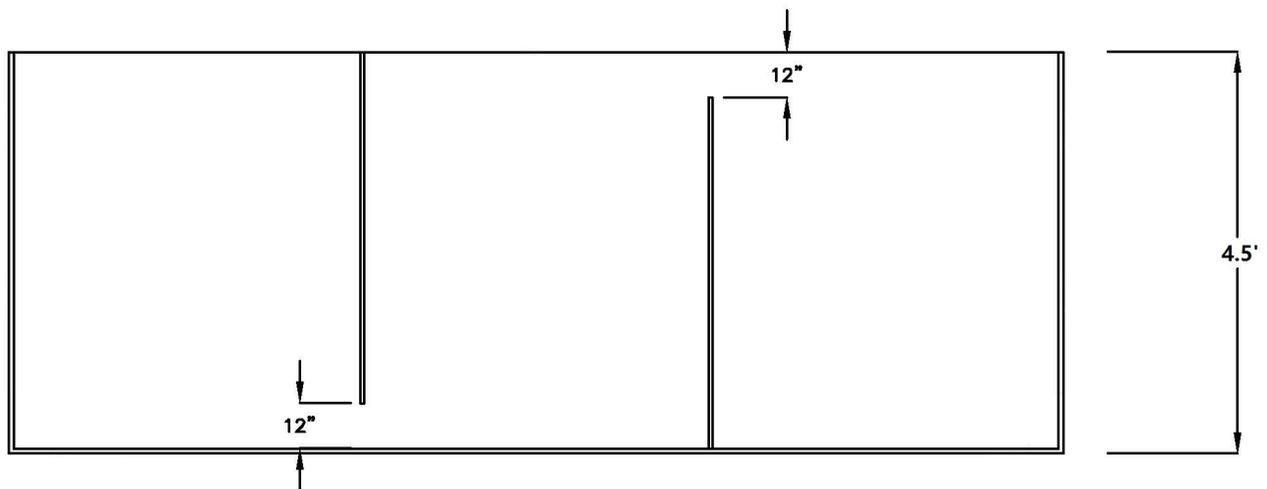
Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag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

Comments:

Appendix C
Water Treatment System



TOP VIEW
NOT TO SCALE



SIDE VIEW
NOT TO SCALE



LOCKWOOD REMEDIATION TECHNOLOGIES LLC
 89 Crawford Street
 Leominster, MA 01453
 TEL.: 774.450.7177 FAX: 888.835.0617
 www.lrt-llc.net

*OPEN TOP
 2,000 GALLON WEIR TANK*

SCALE: NOT TO SCALE	DR. BY:
DATE:	APP. BY: PL
CLIENT:	JOB NO.:
SITE:	FIGURE 1



Polyester Liquid Filter Bag



Features

- * Polyester liquid bag filter are available with a carbon steel ring, stainless steel ring or plastic flanges.
- * Heavy-duty handle eases installation and removal
- * Metal ring sewn into bag top for increased durability and positive sealing
- * Wide array of media fibers to meet needed temperature and micron specifications

Applications

Polyester liquid filter bags can be used in the filtering of a wide array of industrial and commercial process fluids

Sizes

Our liquid filter bags are available for all common liquid bag housings. Dimensions range from 4.12" diameter X 8" length thru 9" diameter X 32" length.

Micron Ratings

Available fibers range from 1 to 1500 microns

Options

- * Bag finish or covers for strict migration requirements.
- * Plastic top O.E.M. replacements
- * Multi-layered filtering capabilities for higher dirt holding capacities

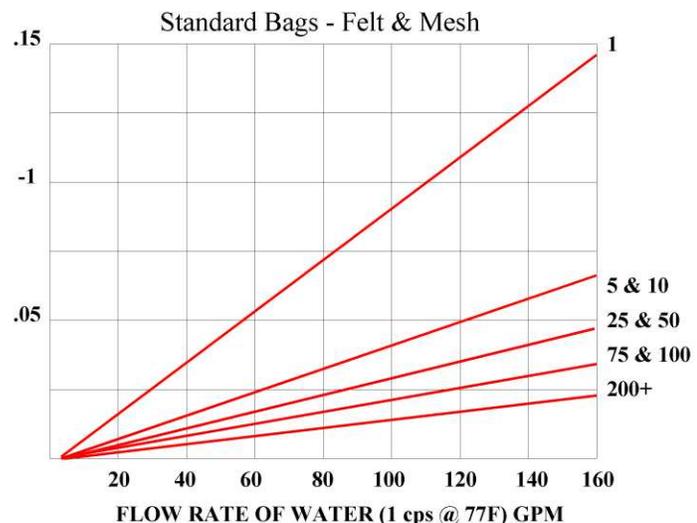
Optional Filter Media

Felt: Nomex, Polyester, Polypropylene

Monofilament: Nylon, Polyester, Polypropylene

Multifilament: Nylon, Polyester

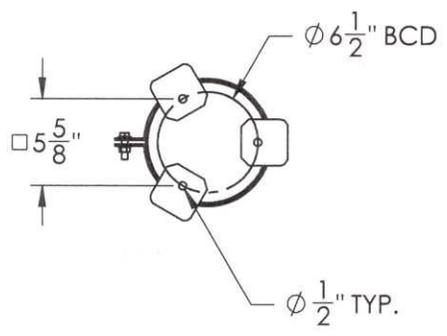
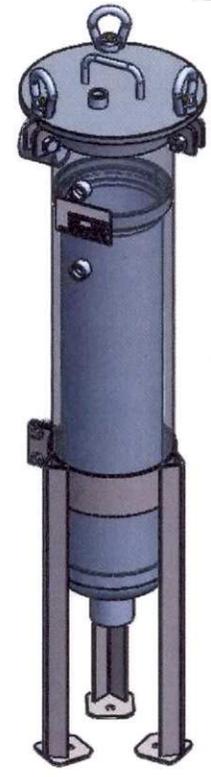
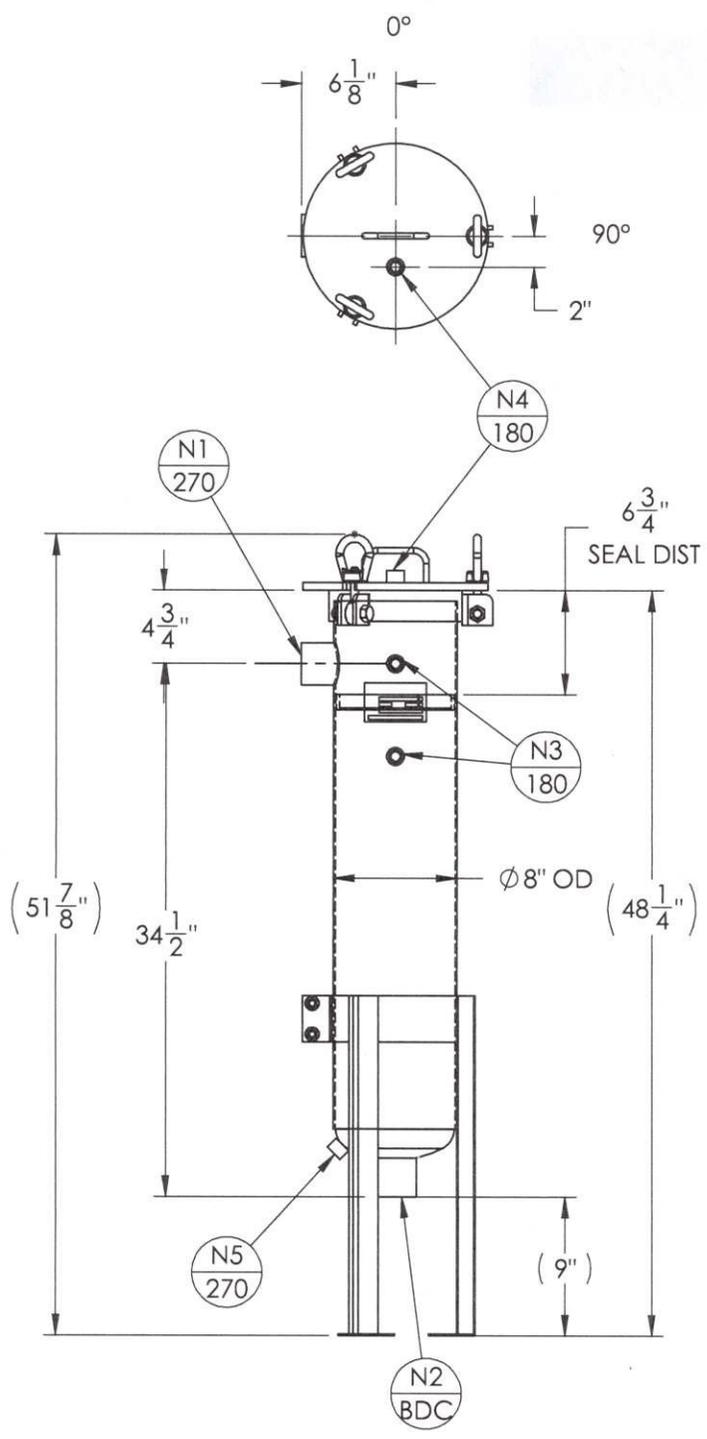
Polypropylene: Oil Removal



NOZZLE SCHEDULE			
MARK	QTY	SIZE / RATING	DESCRIPTION
N1	1	2" 150# NPT	INLET
N2	1	2" 150# NPT	OUTLET
N3	2	1/2" 3000# NPT	PRESS GA
N4	1	1/2" 3000# NPT	VENT
N5	1	1/2" 3000# NPT	CLEAN DRAIN
N6	-	-	DIRTY DRAIN

VESSEL DESIGN CONDITIONS	
CODE: BEST COMMERCIAL PRACTICE	
M.A.W.P.: 150 PSI @ 250°F	M.D.M.T.: -20° F @ 150 PSI
M.A.E.P.: 15 PSI @ 250°F	
CORROSION ALLOWANCE: NONE	HYDROTEST PRESS: 195 PSI
STAMP: 'NC'	SERVICE: NON LETHAL
PWHT: N/A	RADIOGRAPHY: N/A
MATERIAL: SS 304/L	GASKET: BUNA-N

DRY WEIGHT: 77.62 #'s
 FLOODED WEIGHT: 140 #'s
 SHIPPING WEIGHT: 100 #'s
 VESSEL VOLUME: 1.0 C.F.



NOTES:
 • VESSEL WILL HOUSE (QTY=1) DOUBLE LENGTH BASKET.

1:1

REV.	DATE	REVISION	DRAWN	APP'D
 89 Crawford Street Leominster, MA 01453 Tel: 774.450.7177 Fax: 888.835.0617				
LRT Provided Bag Filter Housing				
EQUIPMENT: BAG FILTER HOUSING (EB SERIES)				
MODEL NO: S4EB112-2P-SW				
CUSTOMER:				
PARENT: NONE	DRAWN: CR	DATE: JAN 13 2011	JOB No. V-	DWG. No. 001-0123
PAGE: 1 OF 4	CHK'D: JM	SCALE: NTS		REV. No. 0

Centrifugal - Single Phase

Motor Protection

All models provide built-in thermal overload protection that shuts down the pump when operating temperature becomes too high, and automatically restarts once the motor cools and a proper temperature is met.

Quality and Safety

ST Series Single Phase Pumps are in accordance with ISO9001 Quality Management System standard. Also, all Single Phase models carry the Underwriters Laboratories (UL) Listing for compliance with both U.S. or Canadian electrical safety codes.



YELLSUB 1 1/4" Discharge 33 GPM - 15' HEAD

The Yellow Submarine is MQ's most lightweight, compact submersible pump. A great choice for common household moving water applications. One piece polymer pump casing body resists corrosion and heat. Includes internal thermal overload protection, dual shaft seals, and positive direct drive thermoplastic impeller secured with stainless steel fittings.



SS233 2" Discharge 60 GPM - 20' HEAD

This lightweight, compact submersible pump is the first choice for many applications: flooded rooms, flat roofs, fill tanks, basins, fountains and waterfalls. Hardy thermoplastic pump casing body resists corrosion and heat. Further, the SS233 incorporates internal thermal overload protection, dual shaft seals, and positive direct drive thermoplastic impeller secured with stainless steel fittings.



ST2038P 2" Discharge 60 GPM - 38' HEAD

This lightweight, compact submersible pump is ideal for moving water in multiple confined and open area applications. The unique casing design permits it to draw water to a level of 1/16" without having to place the pump in any kind of sump. The ST2038P incorporates a rugged cast aluminum housing, internal thermal overload protection, and sealed dual shaft seals and bearings.



ST2037 2" Discharge 73 GPM - 37' HEAD

The ST2037 incorporates a rugged cast aluminum housing, internal thermal overload protection, dual shaft seals, sealed ball bearings impeller and molded 25' Power Cable with strain relief. This is a powerful, versatile, low maintenance pump that is perfect for a wide range of operations supporting Contractors Service Utilities, Municipalities, and Homeowners.



ST2047 2" Discharge 87 GPM - 47' HEAD

A compact, powerful pump that tackles tough dewatering jobs. Perfect for Contractors, Service Utilities, Municipalities, and Homeowners. The ST2047 incorporates a rugged cast aluminum housing, internal thermal overload protection, dual shaft seals, sealed ball bearings impeller and molded 50' Power Cable with strain relief.



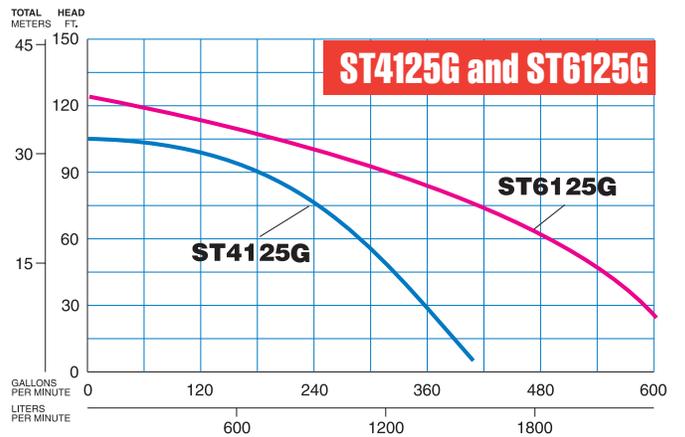
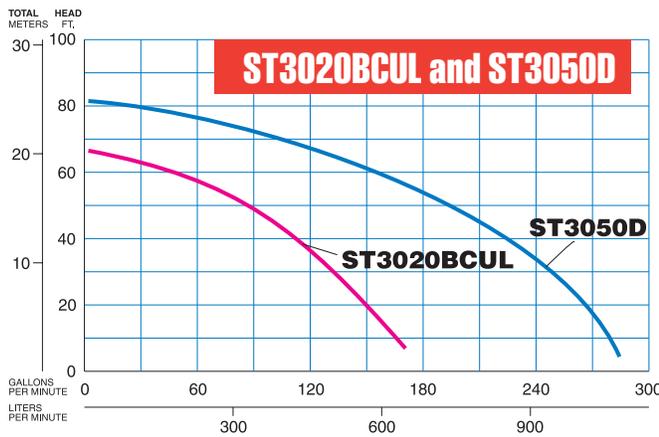
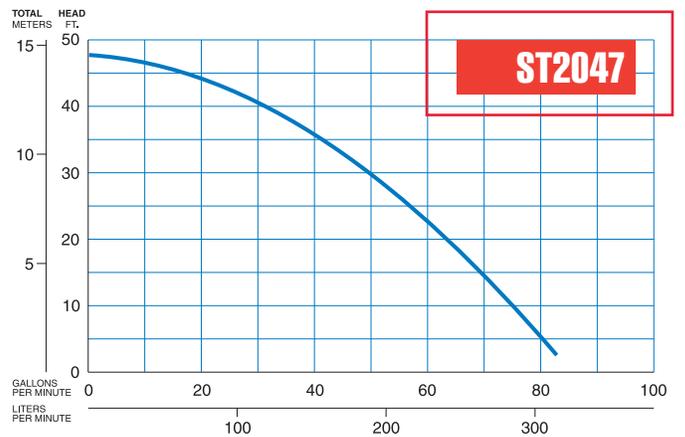
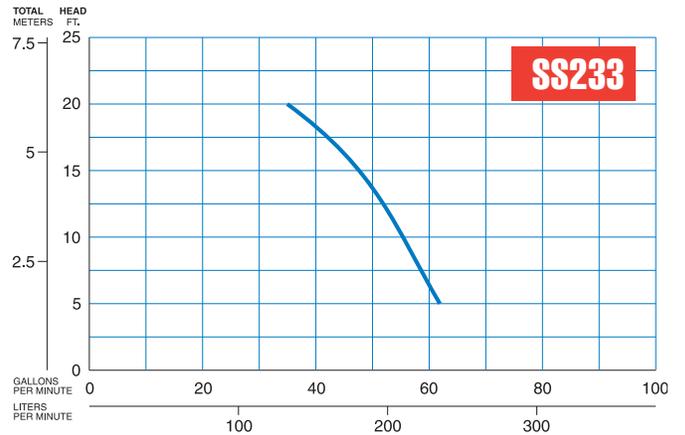
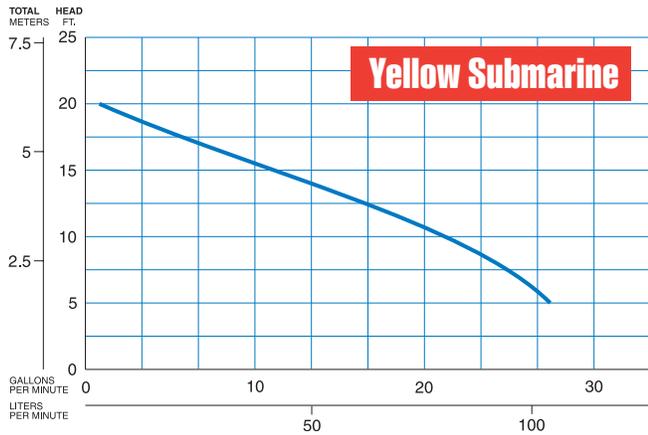
ST3020BCUL 3" Discharge 170 GPM - 72' HEAD

This is a rugged 2HP 230V pump with a heat conducting cast iron/steel motor casing. Pumps liquid up to 120° and de-waters surfaces up to 1/2". The ST3020BCUL incorporates reliable double mechanical oil-filled seals, internal thermal overload protection, sealed ball bearings, Ductile Iron impeller, carrying handle, and molded 50' Power Cable with strain relief. The 6.7" diameter design permits the pump to fit into tight spaces & conduits.

* All Multiquip single phase submersible pumps do not require a Control Box for safe, efficient operations. However, a Control Box may be desired if operations call for a manual ON/OFF Switch option.



Pump Performance Curves



Appendix D
Supplementary Information

MassDEP - Bureau of Waste Site Cleanup

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

Site Information:

1889 DEACON ST | BROOKLINE
1889 DEACON ST | BROOKLINE, MA

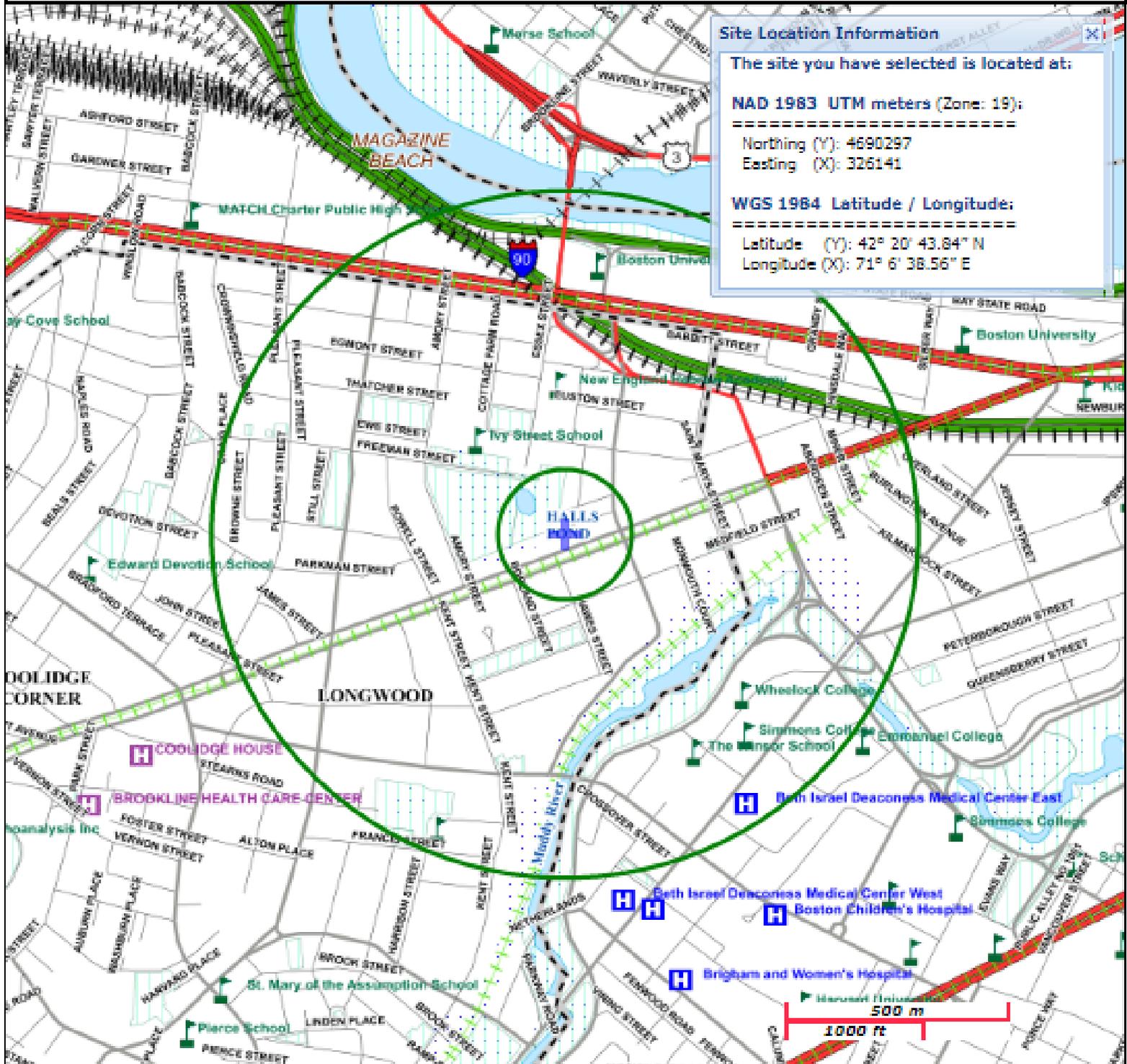
NAD83 UTM Meters:
4826227mN , 326141mE (Zone: 19)
March 7, 2019

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



MassDEP

Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail	-----
Boundaries: Town, County, DEP Region, Train, Powerline, Pipeline, Aqueduct	-----
Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam	-----
Aquifers: Medium Yield, High Yield, EPA Sole Source	-----
Non Potential Drinking Water Source Area: Medium, High Yield	-----

PWS Protection Area: Zone II, IMPA, Zone A	-----
Hydrography: Open Water, PWS Reservoir, Tidal Flat	-----
Wetlands: Freshwater, Saltwater, Cranberry Bog	-----
FEMA 100y Floodplain, Protected Open Space, ACEC	-----
Est. Rare Wetland Wildlife Hab; Vernal Pool: Cert, Potential	-----
Solid Waste Landfill; PVE: Com. GW, SW, Emerg, Non-Com	-----



Documentation of the National Historic Preservation Act Eligibility Determination:

As part of this permit, a determination was made as to whether there were any historic properties or places listed on the national register in the path of the discharge or in the vicinity of the construction of treatment systems or Best Management Practices (BMPs) related to the discharge. A search on the Massachusetts Cultural Resource Information System Database and the National Register of Historic Places did list 1080 Beacon Street and the surrounding area as historic.

LRT completed a Project Notification Form (PNF) and submitted to the Massachusetts Historic Commission. The State Historic Preservation Officer (SHPO) has been notified of the proposed project activities via the PNF.

Actions were taken to insure the protection of the historic properties on and near the project site. Therefore, temporary dewatering activities will have “no impact” to historic properties.

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No:	BKL.1453
Historic Name:	
Common Name:	
Address:	1080 Beacon St
City/Town:	Brookline
Village/Neighborhood:	Lower Beacon Street; Beacon Street
Local No:	3/9B-10
Year Constructed:	1909
Architect(s):	Fuller, George A. Company
Architectural Style(s):	Classical Revival
Use(s):	Apartment House
Significance:	Architecture
Area(s):	BKL.K: Beacon Street Historic District BKL.W: Brookline Multiple Resource Area
Designation(s):	Nat'l Register District (10/17/1985); Nat'l Register MRA (10/17/1985)
Building Materials(s):	Wall: Brick; Stone, Cut Foundation: Brick



The Massachusetts Historical Commission (MHC) has converted this paper record to digital format as part of ongoing projects to scan records of the Inventory of Historic Assets of the Commonwealth and National Register of Historic Places nominations for Massachusetts. Efforts are ongoing and not all inventory or National Register records related to this resource may be available in digital format at this time.

The MACRIS database and scanned files are highly dynamic; new information is added daily and both database records and related scanned files may be updated as new information is incorporated into MHC files. Users should note that there may be a considerable lag time between the receipt of new or updated records by MHC and the appearance of related information in MACRIS. Users should also note that not all source materials for the MACRIS database are made available as scanned images. Users may consult the records, files and maps available in MHC's public research area at its offices at the State Archives Building, 220 Morrissey Boulevard, Boston, open M-F, 9-5.

Users of this digital material acknowledge that they have read and understood the MACRIS Information and Disclaimer (<http://mhc-macris.net/macrisdisclaimer.htm>)

Data available via the MACRIS web interface, and associated scanned files are for information purposes only. THE ACT OF CHECKING THIS DATABASE AND ASSOCIATED SCANNED FILES DOES NOT SUBSTITUTE FOR COMPLIANCE WITH APPLICABLE LOCAL, STATE OR FEDERAL LAWS AND REGULATIONS. IF YOU ARE REPRESENTING A DEVELOPER AND/OR A PROPOSED PROJECT THAT WILL REQUIRE A PERMIT, LICENSE OR FUNDING FROM ANY STATE OR FEDERAL AGENCY YOU MUST SUBMIT A PROJECT NOTIFICATION FORM TO MHC FOR MHC'S REVIEW AND COMMENT. You can obtain a copy of a PNF through the MHC web site (www.sec.state.ma.us/mhc) under the subject heading "MHC Forms."

Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Thursday, March 7, 2019 at 7:55: AM

FORM B - BUILDING

PP - BEACON ST
LOWER BEACON MRA/DB

1453

Area <u>K</u> <u>K-7 W</u>	Form no. 3/9B-10
-------------------------------	---------------------

BKL.1453

MASSACHUSETTS HISTORICAL COMMISSION
294 Washington Street, Boston, MA 02108



Town Brookline

Address 1080 Beacon Street

Historic Name NA

Use: Original 12 family dwelling,
and janitor's quarters

Present 13 apartments

Ownership: Private individual
Private organization

Public

Original owner Charles A. Newhall et
al, Trs.- Strathmore Land Trust

DESCRIPTION:

Date 1909

Source Brookline Building Permit

Style CLASSICAL REVIVAL

Architect George A. Fuller

Exterior wall fabric

Outbuildings None

Major alterations (with dates)
1961 - Replace basement window w/door.
1937 - Alter 3rd fl. suite from 1 to 2
1967 - Build shed.
1977 - Remove connecting wing between
#1070 & #1080.

Moved NO Date -

Approx. acreage 13,017 sq. ft.

Recorded by C. Benka & L. Larkin

Organization BHC

Date June 1980

Setting North side of Beacon Street;
backs onto Hall's Pond area and Cot-
tage Farm neighborhood; abutted by
buildings of similar height and style

(Staple additional sheets here)

This building meets NR criteria B and C, having been built by Charles Newhall, one of the more active developers of Beacon Street during the late 19th and early 20th centuries and being typical of some of the larger apartment houses built on Beacon Street during the early decades of the 20th century in terms of height, setbacks, stylistic details, and building materials.

BKL.1453

ARCHITECTURAL SIGNIFICANCE (describe important architectural features and evaluate in terms of other buildings within community)

1080 Beacon Street is similar to the Wolloton in height and design, as seen particularly in the rounded bays, deep cornices, lintels, and modillions. This building is wider, however, and presents an interesting treatment of the facade which has been developed into an arcade. #1101 originally had a similar arcade-type design which has been glassed in in recent years.

HISTORICAL SIGNIFICANCE (explain the role owners played in local or state history and how the building relates to the development of the community)

Built for 12 families, the building was designed by George Fuller, architect of 29 Beals Street as well as the attached apartment houses at 1090-1120 Beacon Street and 1853-7 Beacon Street. Fuller worked with George Lord at #19 Exchange Place in Boston and "many of the largest landowners erected buildings under the guidance of Lord and Fuller who devoted mature judgment and great experience to the interests of their customers." #1080 Beacon Street was held in trust by Charles Newhall (see 1070 Beacon Street), Charles A. Newhall, and Cheever Newhall. Charles Newhall lived here in 1913. Other residents of this apartment house included manufacturers, bankers, and brokers; many of these residents had moved to Brookline from Boston. Mrs. R.H. Stearns wife of the founder of the department store of that name, lived here in 1910 and 1911.

BIBLIOGRAPHY and/or REFERENCES

- Street lists-1909-1913
- Tax list-1909, 1910
- Permit-1909
- Leading Merchants and Manufacturers of Boston

950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH

APPENDIX A

MASSACHUSETTS HISTORICAL COMMISSION
220 MORRISSEY BOULEVARD
BOSTON, MASS. 02125
617-727-8470, FAX: 617-727-5128

PROJECT NOTIFICATION FORM

Project Name: 1080 Beacon Street, Brookline MA

Location / Address: 1080 Beacon Street

City / Town: Brookline MA

Project Proponent

Name: Lockwood Remediation Technologies, LLC (LRT)

Address: 89 Crawford Street

City/Town/Zip/Telephone: Leominster, MA 01453 / 774-450-7177

Agency license or funding for the project (list all licenses, permits, approvals, grants or other entitlements being sought from state and federal agencies).

Agency Name

Environmental Protection Agency (EPA)

Type of License or funding (specify)

National Pollutant Discharge Elimination System, Dewatering
General Permit: Pending

Project Description (narrative):

Dewatering and Water Treatment services as part of the building improvements being conducted by South Coast Improvements Co. at the site listed above.

Does the project include demolition? If so, specify nature of demolition and describe the building(s) which are proposed for demolition.

N/A: Dewatering / Water Treatment efforts will not impact any building.

Does the project include rehabilitation of any existing buildings? If so, specify nature of rehabilitation and describe the building(s) which are proposed for rehabilitation.

N/A: LRT is completing Dewatering / Water Treatment services and will not impact any existing buildings.

Does the project include new construction? If so, describe (attach plans and elevations if necessary).

No

950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH

APPENDIX A (continued)

To the best of your knowledge, are any historic or archaeological properties known to exist within the project's area of potential impact? If so, specify.

What is the total acreage of the project area?

Woodland <u>0</u> acres	Productive Resources:
Wetland <u>0</u> acres	Agriculture <u>0</u> acres
Floodplain <u>0</u> acres	Forestry <u>0</u> acres
Open space <u>0</u> acres	Mining/Extraction <u>0</u> acres
Developed <u>0.2</u> acres	Total Project Acreage <u>0.2</u> acres

What is the acreage of the proposed new construction? N/A acres

What is the present land use of the project area?

>1%

Please attach a copy of the section of the USGS quadrangle map which clearly marks the project location.

This Project Notification Form has been submitted to the MHC in compliance with 950 CMR 71.00.

Signature of Person submitting this form: 

Date: 3/8/19

Name: Jacob Jennings

Address: 89 Crawford St

City/Town/Zip: Leominster, MA 01453

Telephone: 508-930-9812

REGULATORY AUTHORITY

950 CMR 71.00: M.G.L. c. 9, §§ 26-27C as amended by St. 1988, c. 254.

Tracking Number: 9405503699300441557612

Remove X

On Time

Status

Expected Delivery on

 **Delivered**

SATURDAY

March 9, 2019 at 8:41 am
Delivered, In/At Mailbox
DORCHESTER, MA 02125

9 MARCH
2019 ⓘ

by
8:00pm ⓘ

[Get Updates](#) ✓

Delivered

[Text & Email Updates](#) ✓

[Tracking History](#) ✓

[Product Information](#) ✓

[See Less](#) ^

March 9, 2019, 8:41 am

Delivered, In/At Mailbox
DORCHESTER, MA 02125

Your item was delivered in or at the mailbox at 8:41 am on March 9, 2019 in DORCHESTER, MA 02125.

March 9, 2019, 6:40 am

Arrived at Post Office
ROXBURY, MA 02119

March 9, 2019, 5:05 am

Arrived at USPS Facility
ROXBURY, MA 02119

March 9, 2019, 4:44 am

Departed USPS Regional Facility
BOSTON MA DISTRIBUTION CENTER

March 8, 2019, 11:57 pm

Arrived at USPS Regional Facility
BOSTON MA DISTRIBUTION CENTER

March 8, 2019, 8:41 pm

Arrived at USPS Regional Facility
SHREWSBURY MA DISTRIBUTION CENTER

March 8, 2019, 6:23 pm

Departed Post Office
LEOMINSTER, MA 01453

March 8, 2019, 2:19 pm

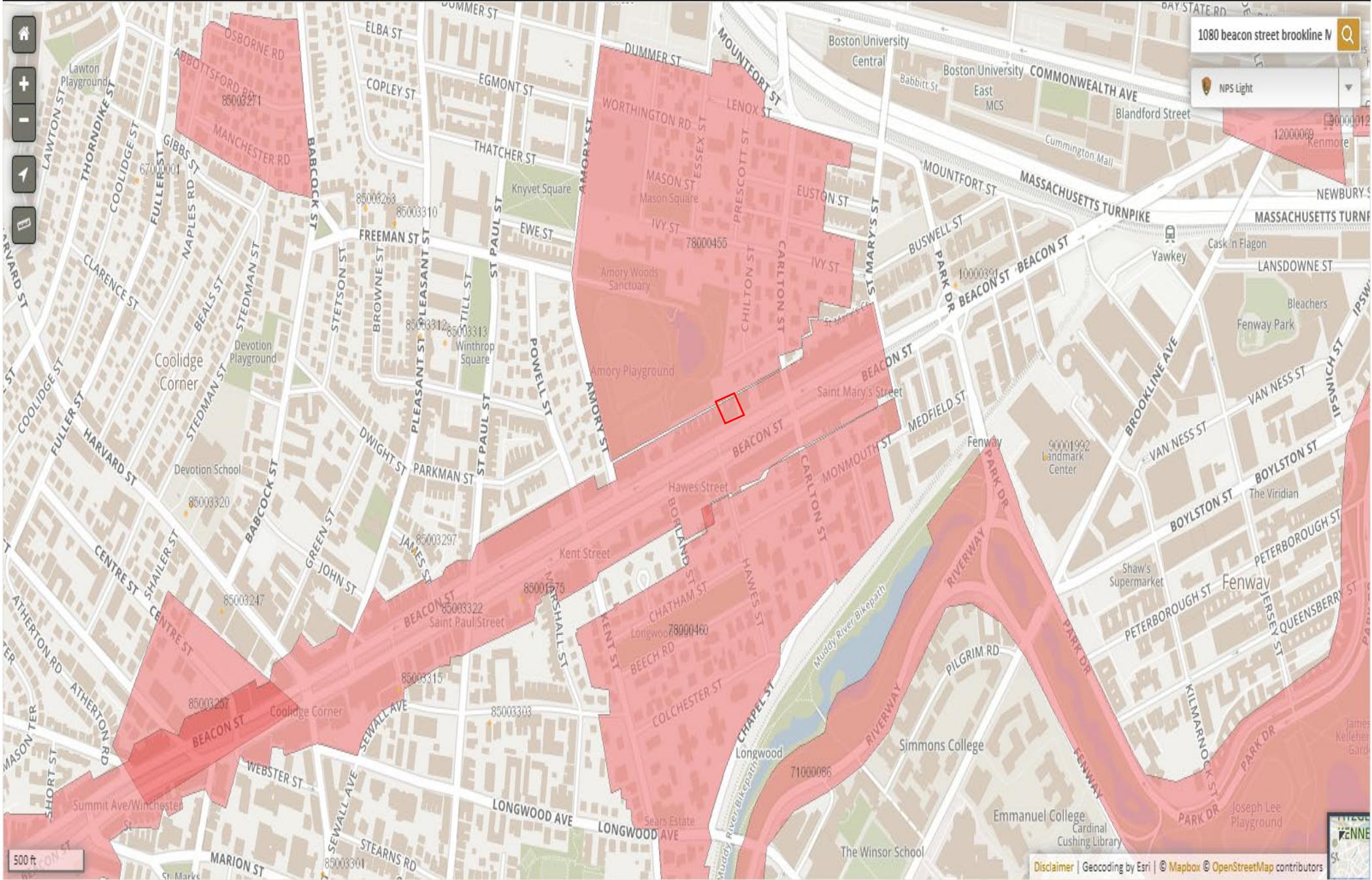
USPS picked up item
LEOMINSTER, MA 01453

National Register of Historic Places



Public, non-restricted data depicting National Register spatial data processed by the Cultural Resources GIS facility. Data last updated in April, 2014.

= Project Area





Documentation of the Results of the ESA Eligibility Determination:

Using information in Appendix IV of the NPDES DGP, the project located at 1080 Beacon Street, Brookline MA is eligible for coverage under this general permit under FWS Criterion C. This project is located in Norfolk County. No designated critical habitats were listed in the project area. An Endangered Species Consultation was conducted on the U.S. Fish & Wildlife Service New England Field Office ECOS IPaC webpage for the Site:

- The Northern long-eared bat was listed as “Threatened” wherever it is found;

Temporary dewatering activities at the site are not expected to impact the Northern Long-eared Bat.

Northern long-eared bats spend winter hibernating in caves and mines. They use areas in various sized caves or mines with constant temperatures, high humidity, and no air currents. During the summer, northern long-eared bats roost singly or in colonies underneath bark, in cavities or in crevices of both live trees and snags (dead trees). There are no caves and mines located at the site. There are trees in the immediate vicinity of the site; however, tree removal is not part of the scope of work related to this Notice of Intent. Therefore, temporary dewatering activities will have “no impact” to the Northern Long-eared Bat.



United States Department of the Interior



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

In Reply Refer To:

March 07, 2019

Consultation Code: 05E1NE00-2019-SLI-1080

Event Code: 05E1NE00-2019-E-02472

Project Name: 1080 Beacon Street, Brookline MA

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

To Whom It May Concern:

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

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

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

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

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

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

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

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

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

Attachment(s):

- Official Species List
-

Official Species List

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

This species list is provided by:

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

Project Summary

Consultation Code: 05E1NE00-2019-SLI-1080

Event Code: 05E1NE00-2019-E-02472

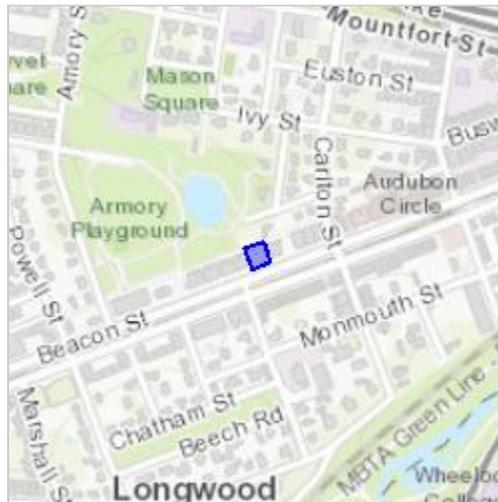
Project Name: 1080 Beacon Street, Brookline MA

Project Type: Water Withdrawal / Depletion

Project Description: Construction dewatering

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/42.34547820831489N71.11066112299943W>



Counties: Norfolk, MA

Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list.

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

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

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

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

Mammals

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

Critical habitats

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

April 4, 2019

Paul Lockwood
Lockwood Remediation Technologies, LLC
89 Crawford Street
Leominster, MA 01453

Project Location: 1080 Beacon St., Brookline, MA
Client Job Number:
Project Number: 2-1823
Laboratory Work Order Number: 19D0183

Enclosed are results of analyses for samples received by the laboratory on April 3, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
19D0183-01	5
Sample Preparation Information	6
QC Data	7
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	7
B227409	7
Flag/Qualifier Summary	8
Certifications	9
Chain of Custody/Sample Receipt	10

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

Lockwood Remediation Technologies, LLC
89 Crawford Street
Leominster, MA 01453
ATTN: Paul Lockwood

REPORT DATE: 4/4/2019

PURCHASE ORDER NUMBER: 2-1823

PROJECT NUMBER: 2-1823

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19D0183

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

PROJECT LOCATION: 1080 Beacon St., Brookline, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
S1	19D0183-01	Ground Water		SM21-22 3500 Cr B	

CASE NARRATIVE SUMMARY

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

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

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

Project Location: 1080 Beacon St., Brookline, MA

Sample Description:

Work Order: 19D0183

Date Received: 4/3/2019

Field Sample #: S1

Sampled: 4/3/2019 08:30

Sample ID: 19D0183-01

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	0.0040	mg/L	1		SM21-22 3500 Cr B	4/3/19	4/3/19 20:00	is

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Sample Extraction Data

SM21-22 3500 Cr B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0183-01 [S1]	B227409	50.0	50.0	04/03/19

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B227409 - SM21-22 3500 Cr B										
Blank (B227409-BLK1)				Prepared & Analyzed: 04/03/19						
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B227409-BS1)				Prepared & Analyzed: 04/03/19						
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		105	83.2-114			
LCS Dup (B227409-BSD1)				Prepared & Analyzed: 04/03/19						
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		108	83.2-114	2.44	7.51	
Duplicate (B227409-DUP1)				Source: 19D0183-01		Prepared & Analyzed: 04/03/19				
Hexavalent Chromium	ND	0.0040	mg/L		ND			NC	56.3	
Matrix Spike (B227409-MS1)				Source: 19D0183-01		Prepared & Analyzed: 04/03/19				
Hexavalent Chromium	0.093	0.0040	mg/L	0.100	ND	93.4	10.8-151			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
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SM21-22 3500 Cr B in Water

Hexavalent Chromium NY,CT,NH,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

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



con-test[®]
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client LBT
 Received By SL Date 4/2/19 Time 18:45

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 4.4
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
 Was COC Relinquished? T Does Chain Agree With Samples? T

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

Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name F
 Project T ID's T Collection Dates/Times T*

Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? T Who was notified? IRMC
 Are there Short Holds? T Who was notified? IRMC
 Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? N/A Acid _____ Base _____

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

Unused Media

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

Comments:

no time on COC
 Sample time 8:30 per email