

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

February 25, 2016

U.S. Environmental Protection Agency-Region 1 5 Post Office Square, Suite 100 Mail Code OEP06-4 Boston, Massachusetts 02109-3912 Attn.: Dewatering General Permit NOI Processing

Reference: Notice of Intent (NOI) Dewatering General Permit (DGP) Grafton Wastewater Treatment Plant Improvements 9 Depot Street Grafton, Massachusetts

To Whom It May Concern:

On behalf of Walsh Construction (Walsh), Lockwood Remediation Technologies, LLC (LRT) has prepared this Notice of Intent (NOI) for coverage under the National Pollutant Discharge Elimination System (NPDES) Dewatering General Permit (DGP) (MAG070000). This NOI was prepared in accordance with the general requirements of the NPDES and related guidance documentation provided by the US Environmental Protection Agency (EPA). The completed NOI form is provided in Appendix A.

Site Information

This NOI has been prepared for the management of water generated during the construction improvements at the Grafton Wastewater Treatment Plant (WWTP) in Grafton, Massachusetts (the Site); please refer to Figure 1 for a locus map and an overview of the immediate area surrounding the Site. The work area, located at 9 Depot Street, is depicted in Figure 2 along with the proposed treated water discharge location.

Work Summary

The work scope at the site includes the construction of new structures as well as upgrades to the existing WWTP. In order to complete portions of this work, dewatering is required. All water generated from the dewatering of the excavations will be pumped to a water treatment system, depicted in Figure 3, prior to discharge to the Blackstone River. To characterize water from the excavation, LRT collected a representative groundwater sample from an existing groundwater monitoring well on February 22, 2016. This sample was analyzed for the parameters in accordance with the NPDES DGP, Appendix VIII. Laboratory data reports for this sample are provided in Appendix B.

Discharge and Receiving Surface Water Information

A groundwater sample collected by LRT on February 22, 2016 was submitted for the following analyses: total suspended solids (TSS), selected metals, hardness, pH and chloride. The results of this sampling indicated detectable concentrations of iron above discharge standards; however, these concentrations can be treated with an aeration unit and/or ion exchange resin in addition to bag filtration in order achieve concentrations below discharge standards. Refer to Figure 3 for the water treatment system layout.

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, neither the Site nor the point where the proposed discharge reaches the receiving surface water body are Areas of Critical Environmental Concern (ACEC), Habitats of Rare Wetland Wildlife, Habitats of Rare Species, Estimated Habitats of Rare Wildlife, or listed as a National Historic Place. In addition, the Grafton Wastewater Plant Improvements project has filed for a WPA Form 3 – Notice of Intent (Massachusetts Wetlands Protection Act) through the Massachusetts Department of Environmental Protection to confirm the protection of the habitat and its wildlife during construction.

Coverage under NPDES DGP

It is our opinion that the proposed discharge is eligible for coverage under the NPDES DGP. On behalf of Walsh, we are requesting coverage under the NPDES DGP for the discharge of wastewater during construction activities to the Blackstone River.

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, Walsh is the operator that 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 or at plockwood@lrt-llc.net if you have any questions or if you require additional information.

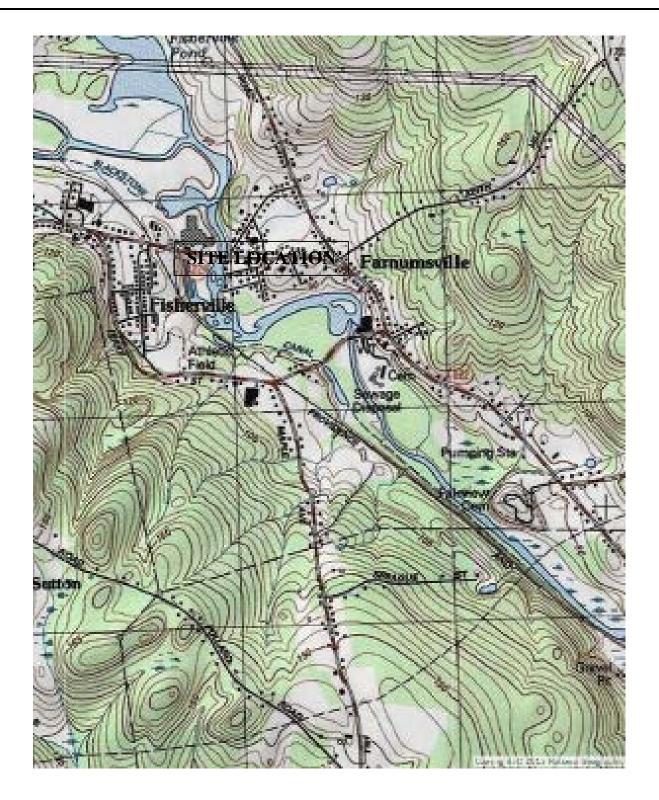
Sincerely, Lockwood Remediation Technologies, LLC

Paul Lockwood

Paul Lockwood President Notice of Intent – Dewatering General Permit Grafton WWTP Improvements - Grafton, MA

Attachments:

Figure 1 Locus Plan Figure 2 Discharge Location Figure 3 Water Treatment System Layout Appendix A – NOI Form Appendix B – Laboratory Data Appendix C – Supplemental Information Figures



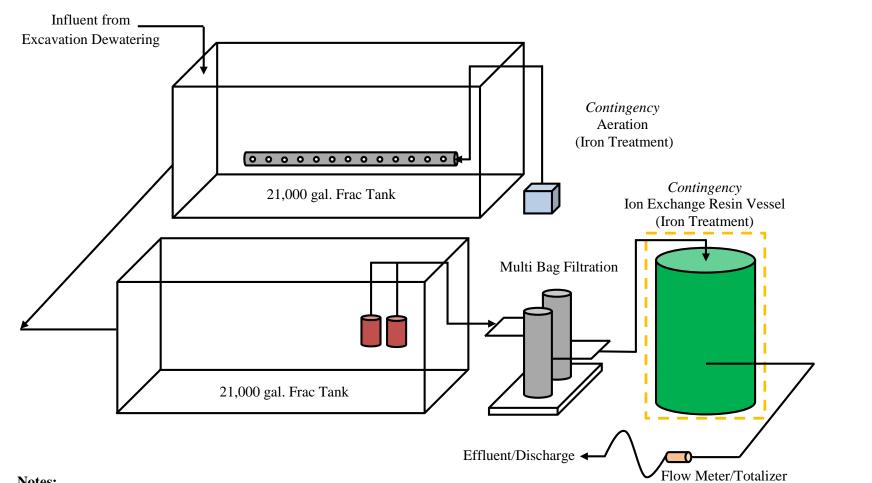
Site Location:

Latitude: 42.172061 Longitude: -71.67872



89 Crawford Street Leominster, Massachusetts 01453 Tel: 774.450.7177 Fax: 888.835.0617 www.lrt-llc.net Figure 1 Locus Map Grafton Wastewater Treatment Plant 9 Depot Street Grafton, Massachusetts





Notes:

- 1.) Figure is not to scale.
- 2.) The water treatment system is rated for 500 gallons per minute.
- 3.) All dewatering effluent water shall be routed to the treatment system.



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Figure 3 - Water Treatment System Layout Grafton Wastewater Treatment Plant 9 Depot Street Grafton, Massachusetts

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:	Mailing Address for the Facility:								
b) Location Address of the Facility (if different from mailing address):	Facility Location	Type of Business:							
	longitude: latitude:	Facility SIC codes:							
c) Name of facility owner:	Owner's email:								
Owner's Tel #:	Owner's Fax #:								
Address of owner (if different from facility address)									
Owner is (check one): 1. Federal2. State 3. Private Legal name of Operator, if not owner: Operator Contact Name: Operator Contact Name:									
	Operator Tel Number: Fax Number:								
Operator's email: Operator Address (if different from owner)									
d) Attach a topographic map indicating the location of the facility an	d the outfall(s) to the receiving w	vater. Map attached?							
 e) Check Yes or No for the following: 1. Has a prior NPDES permit been granted for the discharge? Yes 2. Is the discharge a "new discharger" as defined by 40 CFR Section 3. Is the facility covered by an individual NPDES permit? Yes 4. Is there a pending application on file with EPA for this discharge 	on 122.2? Yes No No If Yes, Permit Nu								

	harge information. Please provide information about the discharge, (attaching additional sheets as needed)
a)	Name of receiving water into which discharge will occur:
Sta	te Water Quality Classification: Freshwater: Marine Water:
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
For	· each outfall:
d)	Estimate the maximum daily and average monthly flow of the discharge (in gallons per day – GPD). Max Daily Flow GPD
	Average Monthly Flow GPD
e.)	What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH Min pH
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. groundwater
g.)	What treatment does the wastewater receive prior to discharge? Bag filtration with an aeration unit and/or ion exchange resin to address the iron concentrations
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) 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
	Is the discharge temporary? Ves No
	If yes, approximate start date of dewatering approximate end date of dewatering
i.)	Latitude and longitude of each discharge within 100 feet (See http://www.epa.gov/tri/report/siting_tool): Outfall 1: long lat; 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 n ame 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? _____

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 (s ee 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: GRAFTON WASTEWATER	TREATMENT PLANT
Operator signature: BAMCA	
Print Full Name and Title: BRAD M CONTU	PROJECT MANAGER
Date: 2-11-2016	

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

Spectrum Analytical

Final ReportRe-Issued ReportRevised Report

Report Date: 24-Feb-16 17:02

Laboratory Report

Lockwood Remediation Technologies, LLC 89 Crawford Street Leominster, MA 01453 Attn: Michael Deso

🛟 eurofins

Project:	Grafton	WWTP,	MA
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Project #: 2-1329

Laboratory ID	<u>Client Sample ID</u>	Matrix	Date Sampled	Date Received		
SC18347-01	MW022216	Ground Water	22-Feb-16 09:45	22-Feb-16 16:35		

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received. All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110 Connecticut # PH-0777 Florida # E87936 Maine # MA138 New Hampshire # 2538 New Jersey # MA011 New York # 11393 Pennsylvania # 68-04426/68-02924 Rhode Island # LAO00098 USDA # S-51435



Authorized by:

June O'Connor Laboratory Director

Eurofins Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 11 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

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Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

The samples were received 2.5 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/-1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Analyses for Total Hardness, pH, and Total Residual Chlorine fall under the state of Pennsylvania code Chapter 252.6 accreditation by rule.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

EPA 200.8

Blanks:

1603123-BLK1

The method blank contains analyte at a concentration above the MRL, however no reportable concentration is present in the sample.

Antimony

1603179-BLK1

The method blank contains analyte at a concentration above the MRL, however no reportable concentration is present in the sample.

Zinc

Laboratory Control Samples:

1603123 BS

Antimony percent recovery 83 (85-115) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW022216

Duplicates:

1603123-DUP1	Source: SC18347-01
1003123 DOI 1	<i>Source</i> . <i>Selog 1 1</i>

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Arsenic

Lead

1603179-DUP1 Source: SC18347-01

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Zinc

MRL raised to correlate to batch QC reporting limits.

Zinc

Samples:

EPA 200.8

Samples:

SC18347-01 MW022216

MRL raised to correlate to batch QC reporting limits.

Zinc

<u>EPA 300.0</u>

Samples:

SC18347-01 MW022216

Sample dilution required for high concentration of target analytes to be within the instrument calibration range. Chloride

SM3500-Cr-B/7196A

Spikes:

1603108-MS1 Source: SC18347-01

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Hexavalent Chromium

1603108-MSD1 Source: SC18347-01

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Hexavalent Chromium

Sample Acceptance Check Form

Client:	Lockwood Remediation Technologies, LLC - MA
Project:	Grafton WWTP, MA / 2-1329
Work Order:	SC18347
Sample(s) received on:	2/22/2016

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	<u>No</u>
Were custody seals present?		\checkmark
Were custody seals intact?		
Were samples received at a temperature of $\leq 6^{\circ}$ C?	\checkmark	
Were samples refrigerated upon transfer to laboratory representative?	\checkmark	
Were sample containers received intact?	\checkmark	
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	\checkmark	
Were samples accompanied by a Chain of Custody document?	\checkmark	
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	\checkmark	
Did sample container labels agree with Chain of Custody document?	\checkmark	
Were samples received within method-specific holding times?	\checkmark	

	\checkmark	
		\checkmark
\checkmark		

N/A

Summary of Hits

Lab ID: SC18347-01		Client ID: MW022216				
Parameter	Result	Flag	Reporting Limit	Units	Analytical Method	
Calcium	19.5		0.200	mg/l	EPA 200.7	
Iron	7.76		0.0300	mg/l	EPA 200.7	
Magnesium	1.62		0.0200	mg/l	EPA 200.7	
Chromium	0.00033		0.00025	mg/l	EPA 200.8	
Nickel	0.00066		0.00025	mg/l	EPA 200.8	
Selenium	0.00053		0.00025	mg/l	EPA 200.8	
Chloride	674	D, GS	\$128.0	mg/l	EPA 300.0	
Hardness	55.3		0.582	mg/l CaCO3	SM 2340B	

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order

<u>Sample Id</u> MW0222 SC18347-				-	<u>Project #</u> 329		<u>Matrix</u> Ground W		ection Date -Feb-16 09			<u>ceived</u> Feb-16	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Meta	als by EPA 200/6000 Series	Methods											
	Preservation	Field Preserved		N/A			1	EPA 200/6000 methods			JS	1603088	
Total Meta	als by EPA 200 Series Meth	ods											
7440-38-2	Arsenic	< 0.00025		mg/l	0.00025	0.00004	1	EPA 200.8	23-Feb-16	23-Feb-16	edt	1603123	Х
7440-70-2	Calcium	19.5		mg/l	0.200	0.128	1	EPA 200.7		24-Feb-16	bjw	1603124	Х
7440-43-9	Cadmium	< 0.00020		mg/l	0.00020	0.00003	1	EPA 200.8		23-Feb-16	edt	1603123	Х
7440-47-3	Chromium	0.00033		mg/l	0.00025	0.00013	1	"	"	"	"	"	Х
7439-89-6	Iron	7.76		mg/l	0.0300	0.0180	1	EPA 200.7	"	23-Feb-16	EDT	1603124	Х
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00009	1	EPA 245.1/7470A	"	24-Feb-16	TBC	1603125	Х
7439-95-4	Magnesium	1.62		mg/l	0.0200	0.0075	1	EPA 200.7		23-Feb-16	EDT	1603124	Х
7440-02-0	Nickel	0.00066		mg/l	0.00025	0.00005	1	EPA 200.8	"	23-Feb-16	edt	1603123	Х
7439-92-1	Lead	< 0.00025		mg/l	0.00025	0.00002	1	"	"	"		"	Х
7440-36-0	Antimony	< 0.00025		mg/l	0.00025	0.00016	1	"	"	"		"	Х
7782-49-2	Selenium	0.00053		mg/l	0.00025	0.00011	1			"	"		х
7440-66-6	Zinc	< 0.00360	R06	mg/l	0.00360	0.00072	1		23-Feb-16	23-Feb-16	"	1603179	х
General C	hemistry Parameters												
	Hardness	55.3	HD	mg/l CaCO3	0.582	0.351	1	SM 2340B	23-Feb-16	24-Feb-16	EDT	[CALC]	
16887-00-6	Chloride	674	D, GS1	mg/l	28.0	2.20	28	EPA 300.0	22-Feb-16	23-Feb-16	MJL	1603105	Х
18540-29-9	Hexavalent Chromium	< 0.005		mg/l	0.005	0.002	1	SM3500-Cr-B/71 96A	22-Feb-16 19:10	22-Feb-16 19:19	TDD	1603108	
	Total Suspended Solids	< 5.0		mg/l	5.0	2.8	1	SM2540D	23-Feb-16	24-Feb-16	CMB	1603136	х

					Spike	Source		%REC		RPD
Analyte(s)	Result	Flag	Units	*RDL	Level	Result	%REC	Limits	RPD	Limit
Batch 1603123 - EPA 200 Series										
Blank (1603123-BLK1)					Pre	epared & Ar	nalyzed: 23-	Feb-16		
Lead	< 0.00025		mg/l	0.00025						
Antimony	0.00066	QB2	mg/l	0.00025						
Selenium	< 0.00025		mg/l	0.00025						
Cadmium	< 0.00020		mg/l	0.00020						
Chromium	< 0.00025		mg/l	0.00025						
Nickel	< 0.00025		mg/l	0.00025						
Arsenic	< 0.00025		mg/l	0.00025						
LCS (1603123-BS1)					Dra	anarad & Ar	nalyzed: 23-	Eeh-16		
Selenium	0.264	D	ma/l	0.00250	0.250		106	85-115		
	0.264	QC3, D	mg/l	0.00250	0.250		83	85-115 85-115		
Antimony		Q03, D D	mg/l							
	0.0523	D	mg/l	0.00250	0.0500		105	85-115		
Cadmium	0.0521	D	mg/l	0.00200	0.0500		104	85-115		
Arsenic	0.0552		mg/l	0.00250	0.0500		110 101	85-115		
Chromium	0.0505	D D	mg/l	0.00250	0.0500		101	85-115		
Nickel	0.0509	U	mg/l	0.00250	0.0500		102	85-115		
Duplicate (1603123-DUP1)				C18347-01	Pre		nalyzed: 23-	-Feb-16		
Selenium	0.00047		mg/l	0.00025		0.00053			11	20
Lead	0.00006	J,QR8	mg/l	0.00025		0.00009			39	20
Antimony	< 0.00025		mg/l	0.00025		0.00022				20
Nickel	0.00068		mg/l	0.00025		0.00066			3	20
Arsenic	0.00014	J,QR8	mg/l	0.00025		0.00018			23	20
Cadmium	0.00011	J	mg/l	0.00020		0.00010			6	20
Chromium	0.00034		mg/l	0.00025		0.00033			2	20
<u> Matrix Spike (1603123-MS1)</u>			Source: S	C18347-01	Pre	epared & Ar	nalyzed: 23-	-Feb-16		
Antimony	0.0516	D	mg/l	0.00250	0.0500	0.00022	103	70-130		
Lead	0.0479	D	mg/l	0.00250	0.0500	0.00009	96	70-130		
Selenium	0.246	D	mg/l	0.00250	0.250	0.00053	98	70-130		
Arsenic	0.0526	D	mg/l	0.00250	0.0500	0.00018	105	70-130		
Cadmium	0.0492	D	mg/l	0.00200	0.0500	0.00010	98	70-130		
Nickel	0.0466	D	mg/l	0.00250	0.0500	0.00066	92	70-130		
Chromium	0.0448	D	mg/l	0.00250	0.0500	0.00033	89	70-130		
Post Spike (1603123-PS1)			Source: S	C18347-01	Pre	epared & Ar	nalyzed: 23-	Feb-16		
Selenium	0.252	D	mg/l	0.00250	0.250	0.00053	101	85-115		
Antimony	0.0534	D	mg/l	0.00250	0.0500	0.00022	106	85-115		
Lead	0.0492	D	mg/l	0.00250	0.0500	0.00009	98	85-115		
Cadmium	0.0503	D	mg/l	0.00200	0.0500	0.00010	100	85-115		
Arsenic	0.0538	D	mg/l	0.00250	0.0500	0.00018	107	85-115		
Chromium	0.0462	D	mg/l	0.00250	0.0500	0.00033	92	85-115		
Nickel	0.0485	D	mg/l	0.00250	0.0500	0.00066	96	85-115		
	0.0400		ing/i	0.00200	0.0000	0.00000	50	00 110		
atch 1603124 - EPA 200 Series					_			E 1 40		
Blank (1603124-BLK1)					Pre	epared & Ar	nalyzed: 23-	-Feb-16		
Iron	< 0.0300		mg/l	0.0300						
Magnesium	< 0.0200		mg/l	0.0200						
Calcium	< 0.200		mg/l	0.200						
LCS (1603124-BS1)					Pre	epared & Ar	nalyzed: 23-	-Feb-16		
Magnesium	2.50		mg/l	0.0200	2.50		100	85-115		
Iron	2.46		mg/l	0.0300	2.50		98	85-115		
Calcium	13.0		mg/l	0.200	12.5		104	85-115		
Duplicate (1603124-DUP1)			Source: S	C18347-01	Pre	epared & Ar	nalyzed: 23-	-Feb-16		
Magnesium	1.65		mg/l	0.0200		1.62			2	20
Iron	7.87		mg/l	0.0300		7.76			1	20

This laboratory report is not valid without an authorized signature on the cover page

Analyta(a)	Degult	Elec	Unite	*RDL	Spike	Source	0/DEC	%REC	רות ח	RPD
Analyte(s)	Result	Flag	Units	*RDL	Level	Result	%REC	Limits	RPD	Limit
Batch 1603124 - EPA 200 Series										
Duplicate (1603124-DUP1)			Source: S	C18347-01	Pre	pared: 23-	Feb-16 An	alyzed: 24-F	eb-16	
Calcium	19.9		mg/l	0.200		19.5			2	20
Matrix Spike (1603124-MS1)			Source: S	C18347-01	Pre	pared & Ai	nalyzed: 23-	-Feb-16		
Iron	10.2		mg/l	0.0300	2.50	7.76	96	70-130		
Magnesium	4.03		mg/l	0.0200	2.50	1.62	97	70-130		
Calcium	32.8		mg/l	0.200	12.5	19.5	107	70-130		
Post Spike (1603124-PS1)			Source: S	C18347-01	Pre	epared & Ai	nalyzed: 23-	-Feb-16		
Magnesium	3.97		mg/l	0.0200	2.50	1.62	94	85-115		
Calcium	31.6		mg/l	0.200	12.5	19.5	97	85-115		
Batch 1603125 - EPA200/SW7000 Series										
Blank (1603125-BLK1)					Pre	epared: 23-	Feb-16 An	alyzed: 24-F	eb-16	
Mercury	< 0.00020		mg/l	0.00020						
LCS (1603125-BS1)					Pre	pared: 23-	Feb-16 An	alyzed: 24-F	eb-16	
Mercury	0.00511		mg/l	0.00020	0.00500		102	85-115		
Duplicate (1603125-DUP1)			Source: S	C18347-01	Pre	pared: 23-	Feb-16 An	alyzed: 24-F	eb-16	
Mercury	< 0.00020		mg/l	0.00020		BRL				20
<u>Matrix Spike (1603125-MS1)</u>			Source: S	C18347-01	Pre	pared: 23-	Feb-16 An	alyzed: 24-F	eb-16	
Mercury	0.00516		mg/l	0.00020	0.00500	BRL	103	80-120		
Post Spike (1603125-PS1)			Source: S	C18347-01	Pre	pared: 23-	Feb-16 An	alyzed: 24-F	eb-16	
Mercury	0.00547		mg/l	0.00020	0.00500	BRL	109	85-115		
Batch 1603179 - EPA 200 Series										
Blank (1603179-BLK1)					Pre	epared & Ai	nalyzed: 23-	-Feb-16		
Zinc	0.00409	QB2	mg/l	0.00360						
LCS (1603179-BS1)					Pre	epared & Ai	nalyzed: 23-	-Feb-16		
Zinc	0.0940	D	mg/l	0.0360	0.100		94	85-115		
Duplicate (1603179-DUP1)			Source: S	C18347-01	Pre	epared & Ai	nalyzed: 23-	-Feb-16		
Zinc	0.00238	J,QR8, R06	mg/l	0.00360		0.00350			38	20
Matrix Spike (1603179-MS1)			Source: S	C18347-01	Pre	epared & Ar	nalyzed: 23	-Feb-16		
Zinc	0.0964	D	mg/l	0.0360	0.100	0.00350	93	70-130		
<u>Post Spike (1603179-PS1)</u>			Source: S	C18347-01	Pre	epared & Ai	nalyzed: 23-	-Feb-16		
Zinc	0.106	D	mg/l	0.0360	0.100	0.00350	103	85-115		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	SpikeSource%RECRPDLevelResult%RECLimitsRPDLimit%RECSecondSecond
Batch 1603105 - General Preparation					
Blank (1603105-BLK1)					Prepared: 22-Feb-16 Analyzed: 23-Feb-16
Chloride	< 1.00		mg/l	1.00	
LCS (1603105-BS1)			-		Prepared: 22-Feb-16 Analyzed: 23-Feb-16
Chloride	20.8		mg/l	1.00	20.0 104 90-110
Calibration Blank (1603105-CCB1)					Prepared & Analyzed: 22-Feb-16
Chloride	0.510		mg/l		
Calibration Blank (1603105-CCB2)					Prepared & Analyzed: 22-Feb-16
Chloride	0.513		mg/l		
Calibration Blank (1603105-CCB3)					Prepared & Analyzed: 22-Feb-16
Chloride	0.508		mg/l		
Calibration Blank (1603105-CCB4)					Prepared: 22-Feb-16 Analyzed: 23-Feb-16
Chloride	0.510		mg/l		
Calibration Blank (1603105-CCB5)					Prepared: 22-Feb-16 Analyzed: 23-Feb-16
Chloride	0.509		mg/l		
Calibration Blank (1603105-CCB6)					Prepared: 22-Feb-16 Analyzed: 23-Feb-16
Chloride	0.508		mg/l		
Calibration Blank (1603105-CCB7)					Prepared: 22-Feb-16 Analyzed: 23-Feb-16
Chloride	0.506		mg/l		
Calibration Blank (1603105-CCB8)					Prepared: 22-Feb-16 Analyzed: 23-Feb-16
Chloride	0.511		mg/l		
Calibration Check (1603105-CCV1)					Prepared & Analyzed: 22-Feb-16
Chloride	20.9		mg/l	1.00	20.0 105 90-110
Calibration Check (1603105-CCV2)					Prepared & Analyzed: 22-Feb-16
Chloride	21.0		mg/l	1.00	20.0 105 90-110
Calibration Check (1603105-CCV3)					Prepared & Analyzed: 22-Feb-16
Chloride	20.8		mg/l	1.00	20.0 104 90-110
Calibration Check (1603105-CCV4)					Prepared: 22-Feb-16 Analyzed: 23-Feb-16
Chloride	20.8		mg/l	1.00	20.0 104 90-110
Calibration Check (1603105-CCV5)				4.00	Prepared: 22-Feb-16 Analyzed: 23-Feb-16
Chloride	20.9		mg/l	1.00	20.0 104 90-110
Calibration Check (1603105-CCV6)			···· · //	4.00	Prepared: 22-Feb-16 Analyzed: 23-Feb-16
	20.9		mg/l	1.00	20.0 105 90-110
Calibration Check (1603105-CCV7) Chloride	20.9		ma/l	1.00	Prepared: 22-Feb-16 Analyzed: 23-Feb-16 20.0 104 90-110
	20.8		mg/l	1.00	
Calibration Check (1603105-CCV8) Chloride	20.8		mg/l	1.00	Prepared: 22-Feb-16 Analyzed: 23-Feb-16 20.0 104 90-110
Reference (1603105-SRM1)	20.0		ing/i	1.00	Prepared: 22-Feb-16 Analyzed: 23-Feb-16
Chloride	26.8		mg/l	1.00	25.0 107 90-110
Batch 1603108 - General Preparation					
Blank (1603108-BLK1)					Prepared & Analyzed: 22-Feb-16
Hexavalent Chromium	< 0.005		mg/l	0.005	
LCS (1603108-BS1)			5		Prepared & Analyzed: 22-Feb-16
Hexavalent Chromium	0.050		mg/l	0.005	0.0500 100 90-111
Calibration Blank (1603108-CCB1)			0		Prepared & Analyzed: 22-Feb-16
Hexavalent Chromium	0.0002		mg/l		,, <u></u>
Calibration Blank (1603108-CCB2)			5		Prepared & Analyzed: 22-Feb-16
Hexavalent Chromium	0.003		mg/l		<u>, , , , , , , , , , , , , , , , , </u>
Calibration Check (1603108-CCV1)			-		Prepared & Analyzed: 22-Feb-16
Hexavalent Chromium	0.052		mg/l	0.005	0.0500 104 90-110
Calibration Check (1603108-CCV2)			-		Prepared & Analyzed: 22-Feb-16

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General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1603108 - General Preparation										
Calibration Check (1603108-CCV2)					Pre	epared & A	nalyzed: 22	-Feb-16		
Hexavalent Chromium	0.048		mg/l	0.005	0.0500		96	90-110		
Duplicate (1603108-DUP1)			Source: So	C18347-01	Pre	epared & Ai	nalyzed: 22	-Feb-16		
Hexavalent Chromium	< 0.005		mg/l	0.005		BRL				20
<u>Matrix Spike (1603108-MS1)</u>			Source: So	C18347-01	Pre	epared & Ai	nalyzed: 22	-Feb-16		
Hexavalent Chromium	0.036	QM1	mg/l	0.005	0.0500	BRL	73	85-115		
Matrix Spike Dup (1603108-MSD1)			Source: So	C18347-01	Pre	epared & Ai	nalyzed: 22	-Feb-16		
Hexavalent Chromium	0.041	QM1	mg/l	0.005	0.0500	BRL	81	85-115	11	20
Reference (1603108-SRM1)					Pre	epared & Ai	nalyzed: 22	-Feb-16		
Hexavalent Chromium	0.026		mg/l	0.005	0.0250		105	85-115		
Batch 1603136 - General Preparation										
Blank (1603136-BLK1)					Pre	epared: 23-	Feb-16 Ar	nalyzed: 24-F	eb-16	
Total Suspended Solids	< 5.0		mg/l	5.0						
LCS (1603136-BS1)					Pre	epared: 23-	Feb-16 Ar	nalyzed: 24-F	eb-16	
Total Suspended Solids	106		mg/l	10.0	100		106	90-110		
Duplicate (1603136-DUP1)			Source: S	C18347-01	Pre	epared: 23-	Feb-16 Ar	alvzed: 24-F	eb-16	
Total Suspended Solids	3.0	J	mg/l	5.0		3.0			0	5
			-							

Notes and Definitions

- D Data reported from a dilution
- GS1 Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
- QB2 The method blank contains analyte at a concentration above the MRL, however no reportable concentration is present in the sample.
- QC3 The spike recovery is outside acceptable limits for the LCS. The batch was accepted based upon the MS and/or MSD meeting the LCS limits criteria.
- QM1 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- QR8 Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
- R06 MRL raised to correlate to batch QC reporting limits.
- dry Sample results reported on a dry weight basis
- NR Not Reported
- RPD Relative Percent Difference
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- HD Total Hardness is a calculation based on the reported values of Ca and Mg.

<u>Laboratory Control Sample (LCS)</u>: A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

<u>Matrix Spike</u>: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

<u>Method Blank</u>: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

<u>Method Detection Limit (MDL)</u>: The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

<u>Reportable Detection Limit (RDL)</u>: The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

<u>Surrogate</u>: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

<u>Continuing Calibration Verification</u>: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by: Kimberly LaPlante Rebecca Merz

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	-		CHAI	e e			J ST			REC		PRI)				Rush 7 All TA	ard TAT - 7 FAT - Date Ts subject t	ial Handling: 7 to 10 business days e Needed: 24-Feb-16 to laboratory approval ration needed for rushes
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	774-450-7177 Mike Deso 1=Na ₂ S2O ₃ 2=HCl 3=H ₂ SO ₄	4=HNO ₃		=Ascorl			Quot	e/RQN	1					Sample			Briggs		
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APPENDIX VIII

TEST METHODS AND MINIMUM LEVELS¹ FOR GROUNDWATER SOURCES

			Minimum	Levels (ug/l) and 7	Test Methods
Parameters	CAS Numbers	ICP/AES ² Methods 200.7,3010A/6010C	ICP/MS ³ ,200.8, 310A/6020A	GFAA ⁴ Method 200.9, 7010	Notes Digestion Methods No.
1. Antimony	7440360	10 ug/L	0.5 ug/L	3 ug/l	200
2. Arsenic	7440382	20 ug/l	1.0 ug/L	3 ug/l	206.5
3. Cadmium	7440439	10 ug/l	0.2 ug/L	0.5 ug/l	200
4. Chromium Total	7440473	15ug/l	1.0 ug/L	1 ug/1	200
5. Chromium VI	18540299				
6. Copper	7440508	15 ug/l	0.5 ug/L	3 ug/1	200
7. Lead	7439921	20 ug/l	0.2 ug/L	3 ug/l	200
8. Mercury	7439976				
9. Nickel	7440020	20 ug/l	0.2 ug/L	5 ug/l	200
10. Selenium	7782492	20 ug/l	2 ug/L	5 ug/l	200
11. Silver	7740224	10 ug/l	0.2 ug/L	1 ug/1	200
12. Zinc	7440666	15 ug/l	5 ug/L		200
13. Iron	7439896	20 ug/L	50 ug/L		200
14. Hardness					Approved Part 136 Methods ²
15.Chloride	16887006				Approved Part 136 Methods ²
16. pH					Approved Part 136 Methods ²

1. Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence.

2. Inductively Couple Plasmas/ Atomic (optical) emissions Spectrometry

3. Inductively Couple Plasma/Mass Spectrometry

4. Graphite Furnace Atomic Absorption

5. Standard Method

1

Appendix C – Supplemental Information

U.S. Fish & Wildlife Service

Grafton WWTP Improvements

IPaC Trust Resource Report

Generated February 09, 2016 11:54 AM MST, IPaC v2.3.2

This report is for informational purposes only and should not be used for planning or analyzing project level impacts. For project reviews that require U.S. Fish & Wildlife Service review or concurrence, please return to the IPaC website and request an official species list from the Regulatory Documents page.



IPaC - Information for Planning and Conservation (<u>https://ecos.fws.gov/ipac/</u>): A project planning tool to help streamline the U.S. Fish & Wildlife Service environmental review process.

US Fish & Wildlife Service IPaC Trust Resource Report



NAME

Grafton WWTP Improvements

LOCATION

Worcester County, Massachusetts

IPAC LINK

https://ecos.fws.gov/ipac/project/ HL63L-223QN-AVNI4-GUWQW-ETVIBA



U.S. Fish & Wildlife Contact Information

Trust resources in this location are managed by:

New England Ecological Services Field Office

70 Commercial Street, Suite 300 Concord, NH 03301-5094 (603) 223-2541

Endangered Species

Proposed, candidate, threatened, and endangered species are managed by the <u>Endangered Species Program</u> of the U.S. Fish & Wildlife Service.

This USFWS trust resource report is for informational purposes only and should not be used for planning or analyzing project level impacts.

For project evaluations that require FWS concurrence/review, please return to the IPaC website and request an official species list from the Regulatory Documents section.

<u>Section 7</u> 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 the Regulatory Documents section in IPaC.

The list of species below are those that may occur or could potentially be affected by activities in this location:

Mammals

Northern Long-eared Bat Myotis septentrionalis

Threatened

CRITICAL HABITAT **No critical habitat** has been designated for this species.

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=A0JE

Critical Habitats

There are no critical habitats in this location

Migratory Birds

Birds are protected by the <u>Migratory Bird Treaty Act</u> and the <u>Bald and Golden Eagle</u> <u>Protection Act</u>.

Any activity which results in the take of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service (<u>1</u>). There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

Additional information can be found using the following links:

- Birds of Conservation Concern <u>http://www.fws.gov/birds/management/managed-species/</u> birds-of-conservation-concern.php
- Conservation measures for birds
 <u>http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/</u>
 <u>conservation-measures.php</u>
- Year-round bird occurrence data <u>http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/</u> <u>akn-histogram-tools.php</u>

The following species of migratory birds could potentially be affected by activities in this location:

American Oystercatcher Haematopus palliatus Season: Breeding <u>https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0G8</u>	Bird of conservation concern
American Bittern Botaurus lentiginosus Season: Breeding https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0F3	Bird of conservation concern
Bald Eagle Haliaeetus leucocephalus Year-round https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B008	Bird of conservation concern
Black-billed Cuckoo Coccyzus erythropthalmus Season: Breeding https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HI	Bird of conservation concern
Blue-winged Warbler Vermivora pinus Season: Breeding	Bird of conservation concern
Canada Warbler Wilsonia canadensis Season: Breeding	Bird of conservation concern
Least Bittern Ixobrychus exilis Season: Breeding	Bird of conservation concern

Olive-sided Flycatcher Contopus cooperi	Bird of conservation concern
Season: Breeding	
https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0AN	
Peregrine Falcon Falco peregrinus	Bird of conservation concern
Season: Breeding	
https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0FU	
Pied-billed Grebe Podilymbus podiceps	Bird of conservation concern
Year-round	
Prairie Warbler Dendroica discolor	Bird of conservation concern
Season: Breeding	
Purple Sandpiper Calidris maritima	Bird of conservation concern
Season: Wintering	
Short-eared Owl Asio flammeus	Bird of conservation concern
Season: Wintering	
https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HD	
Upland Sandpiper Bartramia longicauda	Bird of conservation concern
Season: Breeding	
https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HC	
Willow Flycatcher Empidonax traillii	Bird of conservation concern
Season: Breeding	
https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0F6	
Wood Thrush Hylocichla mustelina	Bird of conservation concern
Season: Breeding	
Worm Eating Warbler Helmitheros vermivorum	Bird of conservation concern
Season: Breeding	

Refuges

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

There are no refuges in this location

Wetlands in the National Wetlands Inventory

Impacts to <u>NWI wetlands</u> 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>U.S. Army</u> <u>Corps of Engineers District</u>.

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.

This location overlaps all or part of the following wetlands:

Freshwater Forested/shrub Wetland

0.616 acre

Riverine <u>R2UBH</u>

245.0 acres

A full description for each wetland code can be found at the National Wetlands Inventory website: <u>http://107.20.228.18/decoders/wetlands.aspx</u>



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

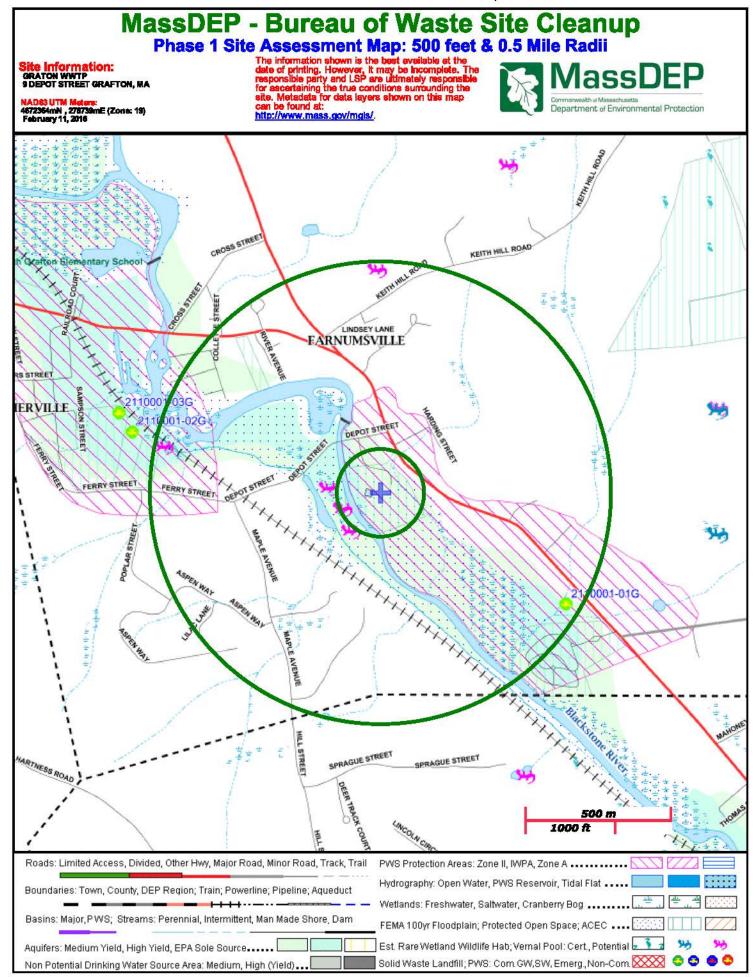
On February 9, 2016 LRT spoke with Maria Tur of the U.S. Fish & Wildlife Service and confirmed that there is no known hibernacula or roost trees in the vicinity of the site.

Additionally, Walsh Construction has filed a MASS DEP WPA Form 3 – Notice of Intent (Massachusetts Wetlands Act) for the Grafton Wastewater Treatment Plant Improvements project and identified that no portion of the project is located in Estimated Habitat of Rare Wildlife per the Natural Heritage and Endangered Species program.

Thank you,

Lockwood Remediation Technologies, LLC.

MassDEP Phase 1 Site Assessment Map



Massachusetts Cultural Resource Information

MHC Home | MACRIS Home

Results

Get Results in Report Format

PDF Spreadsheet

Below are the results of your search, using the following search criteria: Town(s): Grafton Place: Southwest Grafton Street No: 9 Street Name: Depot St Resource Type(s): Area, Building, Object, Structure

For more information about this page and how to use it, click here

No Results Found.

 New Search
 New Search
 Previous

 MHC Home
 MACRIS Home

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