UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 1
5 Post Office Square, Suite 100
BOSTON, MA 02109-3912

CERTIFIED MAIL RETURN RECEIPT REQUESTED

MAR 05 2012

Paul Lockwood
President
Lockwood Remediation Technologies, LLC
127 Hartwell Street, Suite 3
West Boylston, MA 01583

Re: Authorization to discharge under the Remediation General Permit (RGP) – MAG910000. Englewood Properties (new construction) site located at 1842 Beacon Street, Brookline, MA 02445, Norfolk County; Authorization # MAG910523

Dear Mr. Lockwood:

Based on the review of a Notice of Intent (NOI) submitted on behalf of Brookline Development Corporation by your firm Lockwood Remediation Technologies, LLC, for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Operator, to discharge in accordance with the provisions of the RGP at that site. Your authorization number is listed above.

The checklist enclosed with this RGP authorization indicates the pollutants which you are required to monitor. Also indicated on the checklist are the effluent limits, test methods and minimum levels (MLs) for each pollutant. Please note that the checklist does not represent the complete requirements of the RGP. Operators must comply with all of the applicable requirements of this permit, including influent and effluent monitoring, narrative water quality standards, record keeping, and reporting requirements, found in Parts I and II, and Appendices I – VIII of the RGP. See EPA's website for the complete RGP and other information at: http://www.epa.gov/region1/npdes/mass.html#dgp.

Please note the enclosed checklist includes parameters you have marked believe present. In addition EPA is requiring monitoring and effluent limits for total group I and group II polycyclic aromatic hydrocarbons (PAHs) in view of historic pollutant concentrations. You may request a deletion of these and any other compounds not present in the influent during the first six months to a year of continuously monitoring these compounds by filing a notice of change (NOC) request. Please see the notice of change (NOC) information under Appendix V on the RGP website.

Also, please note that the metals included on the checklist are dilution dependent pollutants and subject to limitations based on a dilution factor range (DFR). With the absence of dilution to ponds, EPA determined that the DFR for each parameter is in the one and five (1-5) range. (See the RGP Appendix IV for Massachusetts facilities) Therefore, the limits for copper of 5.2 ug/L, lead of 1.3 ug/L, and iron of 1,000 ug/L, are required to achieve permit compliance at your site.

Finally, please note the checklist of pollutants attached to this authorization is subject to a recertification if the operations at the site result in a discharge lasting longer than six months. A recertification can be submitted to EPA within six (6) to twelve (12) months of operations in accordance with the 2010 RGP regulations.

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that this project will terminate on June 30, 2013. If for any reason the discharge terminates sooner you are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

Thank you in advance for your cooperation in this matter. Please contact Victor Alvarez at 617-918-1572 or Alvarez.Victor@epa.gov, if you have any questions.

Sincerely,

for David M. Webster, Chief
Industrial Permits Branch

Enclosure

cc: Kathleen Keohane, MassDEP
Andrew M. Pappastergion, Brookline
Commissioner of Public Works

2010 Remediation General Permit
Summary of Monitoring Parameters[1]

NPDES Authorization Number:	**MAG910523**
Authorization Issued:	March, 2012
Facility/Site Name:	Englewood Properties
Facility/Site Address:	1842 Beacon Street, Brookline, MA 02445
	Email address of owner: brooklinedevelopment@comcast.net
Legal Name of Operator:	Lockwood Remediation Technology, LLC
Operator contact name, title, and Address:	Paul Lockwood, President, 127 Hartwell Street, Suite 3, West Boylston, MA 01583
	Email:paullockwood@Irt-lic.net
Estimated Date of Completion:	June 30 2013
Category and Sub-Category:	Petroleum Related Site Remediation. Sub-category B. fuel Oils and Other Oil sites
RGP Termination Date:	September 9, 2015
Receiving Water:	Leverett Pond

Monitoring & Limits are applicable if checked. All samples are to be collected as grab samples

	Parameter	**Effluent Limit/Method#/ML** (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
√	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/L) **, 50 mg/L for hydrostatic testing **, Me#60.2/ML5ug/L
	2. Total Residual Chlorine (TRC) [1]	Freshwater = 11 ug/L ** Saltwater = 7.5 ug/L **/ Me#330.5/ML 20ug/L
√	3. Total Petroleum Hydrocarbons (TPH)	5.0 mg/L/ Me# 1664A/ML 5.0mg/L
	4. Cyanide (CN) [2, 3]	Freshwater = 5.2 ug/l ** Saltwater = 1.0 ug/L **/ Me#335.4/ML 10ug/L
	5. Benzene (B)	5ug/L /50.0 ug/L for hydrostatic testing only/ Me#8260C/ML 2 ug/L
	6. Toluene (T)	(limited as ug/L total BTEX)/ Me#8260C/ ML 2ug/L
	7. Ethylbenzene (E)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) [4]	100 ug/L/ Me#8260C/ ML 2ug/L
	10. Ethylene Dibromide (EDB) (1,2- Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/L

	Parameter	Effluent Limit/Method#/ML (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	11. Methyl-tert-Butyl Ether (MtBE)	70.0 ug/l/Me#8260C/ML 10ug/L
	12.tert-Butyl Alcohol (TBA) (TertiaryButanol)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L
	13. tert-Amyl Methyl Ether (TAME)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L
√	14. Naphthalene [5]	20 ug/L /Me#8260C/ML 2ug/L
	15. Carbon Tetrachloride	4.4 ug/L /Me#8260C/ ML 5ug/L
	16. 1,2 Dichlorobenzene (o-DCB)	600 ug/L /Me#8260C/ ML 5ug/L
	17. 1,3 Dichlorobenzene (m-DCB)	320 ug/L /Me#8260C/ ML 5ug/L
	18. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/L /Me#8260C/ ML 5ug/L
	18a. Total dichlorobenzene	763 ug/L - NH only /Me#8260C/ ML 5ug/L
	19. 1,1 Dichloroethane (DCA)	70 ug/L /Me#8260C/ ML 5ug/L
	20. 1,2 Dichloroethane (DCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	21. 1,1 Dichloroethene (DCE)	3.2 ug/L/Me#8260C/ ML 5ug/L
	22. cis-1,2 Dichloroethene (DCE)	70 ug/L/Me#8260C/ ML 5ug/L
	23. Methylene Chloride	4.6 ug/L/Me#8260C/ ML 5ug/L
	24. Tetrachloroethene (PCE)	5.0 ug/L/Me#8260C/ ML 5ug/L
	25. 1,1,1 Trichloro-ethane (TCA)	200 ug/L/Me#8260C/ ML 5ug/L
	26. 1,1,2 Trichloro-ethane (TCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	27. Trichloroethene (TCE)	5.0 ug/L /Me#8260C/ ML 5ug/L
	28. Vinyl Chloride (Chloroethene)	2.0 ug/L /Me#8260C/ ML 5ug/L
	29. Acetone	Monitor Only(ug/L)/Me#8260C/ML 50ug/L
	30. 1,4 Dioxane	Monitor Only /Me#1624C/ML 50ug/L
	31. Total Phenols	300 ug/L Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML 50ug/L
	32. Pentachlorophenol (PCP)	1.0 ug/L /Me#8270D/ML 5ug/L,Me#604 &625/ML 10ug/L
	33. Total Phthalates (Phthalate esters) [6]	3.0 ug/L ** /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L& Me#625/ML 5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/L /Me#8270D/ML 5ug/L,Me#606/ML 10ug/L & Me#625/ML 5ug/L
√	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/L
√	a. Benzo(a) Anthracene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
√	b. Benzo(a) Pyrene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L

	Parameter	Effluent Limit/Method#/ML (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
√	c. Benzo(b)Fluoranthene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
√	d. Benzo(k)Fluoranthene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
√	e. Chrysene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
√	f. Dibenzo(a,h)anthracene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
√	g. Indeno(1,2,3-cd) Pyrene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML5ug/L
√	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/L
√	h. Acenaphthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
√	i. Acenaphthylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
√	j. Anthracene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
√	k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
√	l. Fluoranthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
√	m. Fluorene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	n. Naphthalene [5]	20 ug/l / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
√	o. Phenanthrene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
√	p. Pyrene	X/Me#8270D/ML5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	37. Total Polychlorinated Biphenyls (PCBs) [8, 9]	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
√	38. Chloride	Monitor only/Me# 300.0/ ML 0.1ug/L

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11/12] Freshwater		Minimum level=ML	
	39. Antimony	5.6/ML 10			
	40. Arsenic **	10/ML20			
	41. Cadmium **	0.2/ML10			
	42. Chromium III (trivalent) **	48.8/ML15			

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11/12]		Minimum level=ML	
		Freshwater			
	43. Chromium VI (hexavalent) **	11.4/ML10			
√	44. Copper **	5.2/ML15			
√	45. Lead **	1.3/ML20			
	46. Mercury **	0.9/ML0.2			
	47. Nickel **	29/ML20			
	48. Selenium **	5/ML20			
	49. Silver	1.2/ML10			
	50. Zinc **	66.6/ML15			
√	51. Iron	1,000/ML 20			

	Other Parameters	Limit
√	52. Instantaneous Flow	Site specific in CFS
√	53. Total Flow	Site specific in CFS
√	54. pH Range for Class A & Class B Waters in MA	6.5-8.3; 1/Month/Grab[13]
	55. pH Range for Class SA & Class SB Waters in MA	6.5-8.3; 1/Month/Grab[13]
	56. pH Range for Class B Waters in NH	6.5-8; 1/Month/Grab[13]
	57. Daily maximum temperature - Warm water fisheries	83°F; 1/Month/Grab[14]
	58. Daily maximum temperature - Cold water fisheries	68°F; 1/Month/Grab[14]
	59. Maximum Change in Temperature in MA - Any Class A water body	1.5°F; 1/Month/Grab[14]
	60. Maximum Change in Temperature in MA - Any Class B water body- Warm Water	5°F; 1/Month/Grab[14]
	61. Maximum Change in Temperature in MA – Any Class B water body - Cold water and Lakes/Ponds	3°F; 1/Month/Grab[14]
	62. Maximum Change in Temperature in MA – Any Class SA water body - Coastal	1.5°F; 1/Month/Grab[14]
	63. Maximum Change in Temperature in MA – Any Class SB water body - July to September	1.5°F; 1/Month/Grab[14]
	64. Maximum Change in Temperature in MA –Any Class SB water body - October to June	4°F; 1/Month/Grab[14]

Footnotes:

[1] Although the maximum values for TRC are 11ug/l and 7.5 ug/l for freshwater, and saltwater respectively, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., Method 330.5, 20 ug/l).
[2] Limits for cyanide are based on EPA's water quality criteria expressed as micrograms per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.

[3] Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).
[4] BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.
[5] Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.
[6] The sum of individual phthalate compounds(not including the #34, Bis (2-Ethylhexyl) Phthalate . The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.
[7] Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
[8] In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as total PCBs is the sum of all homologue, all isomer, all congener, or all "Oroclor analyses."Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measure of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.
[9]Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).
[10] Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.
[11] For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using DF x 1,000ug/L (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit =1,000 x 2 =2,000 ug/L., etc. not to exceed the DF=5.
[12] 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. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).
[13] pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.
[14] Temperature sampling per Method 170.1

127 Hartwell Street, Suite 3
West Boylston, Massachusetts 01583
Tel: 774.450.7177
Fax: 888.835.0617
www.lrt-llc.net

February 14, 2012

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

Reference: Notice of Intent
NPDES Remediation General Permit
1842 Beacon Street
Brookline, Massachusetts
LRT Reference #2-1026

To whom it may concern:

On behalf of Brookline Development Corporation (BDC), Lockwood Remediation Technologies, LLC (LRT) has prepared this Notice of Intent (NOI) for coverage under the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP), Massachusetts General Permit (MAG910000). This NOI was prepared in accordance with the general requirements of the NPDES RGP under Federal Register, Vol. 70, No. 147, and related guidance documentation provided by the EPA. The completed NOI form is provided in Appendix A.

Site Information

This NOI has been prepared for the management of wastewater from dewatering during the construction of an apartment building at a 0.9 acre-parcel located at 1842 Beacon Street in Brookline Massachusetts (the Site); please refer to Figure 1 Site Plan for a locus map and an overview of the immediate area surrounding the Site. The proposed work area is bounded by residential properties to the west and north, by Englewood Avenue to the east across which are residential and to the south by Beacon Street across which are residential properties; Figure 2 Site Plan.

Work Summary

The proposed work scope is the construction of apartments at the Site. The Site will require dewatering from wells and/or sumps to reduce the water table below the target excavation. Water collected during construction dewatering activities is expected to contain naturally occurring metals (such as iron) and may contain low levels of petroleum-related compounds (such as PAHs or petroleum hydrocarbon fractions). On November 3, 2011, an LRT representative collected a ground water sample from monitoring well B-4 within the new building footprint at the Site. This water sample was analyzed for the parameters required under the NPDES RGP. In addition, the pH of the proposed influent was measured to evaluate existing conditions. The laboratory data reports for these samples are provided in Appendix B. The analytical results indicated the presence of metals (copper, iron and lead) and one compound associated with petroleum hydrocarbons (naphthalene).

Discharge and Receiving Surface Water Information

Based on analytical sampling conducted by LRT, there were detectable concentrations of naphthalene and three metals including copper, iron and lead. Naphthalene will need to be reduced via granular activated carbon (GAC). Based on the dilution criteria for the Site (see explanation of dilution calculation below) only one metal (iron) currently exceeds the proposed discharge criteria, however the elevated concentrations of iron detected in the water characterization are assumed to be associated with the TSS. The TSS will be significantly reduced via settling occurring in influent equalization tank and then by the filtration that will occur via the wastewater treatment plant provided.

Calculation of Dilution Criteria

For applications in Massachusetts, the following formula is used to calculate site specific dilution criteria:

$$DF = (Qd + Qs)/Qd$$

DF = Dilution Factor
Qd = Maximum flow rate of the discharge in cubic feet per second (cfs)
Qs = Receiving water 7Q10 flow (cfs) where 7Q10 is the minimum flow for seven consecutive days with a reoccurrence interval of 10 years

The value for Qd is the maximum expected flow rate for the site at 100 gpm or 0.223 cfs. The value for Qs requires either a measured value from USGS or a calculated value. There are no published stream gauges listed for Leverett Pond. LRT also reviewed other sources but there is not an estimated 7Q10 in the immediate vicinity of the Site. Therefore, an estimate for the 7Q10 was calculated using the following equation:

$$Q = A\bar{u}$$

Q = Discharge
A = Cross sectional area (assumed here to be the area of the wetland immediately adjacent to the discharge outfall)
$\bar{U}$ = Average velocity (estimated peak velocity in the vicinity of the site and reduced by 50%)

The area of Leverett Pond is approximately 1,300 feet long, 150 feet wide with an average depth of 4 feet. If the width of the pond in the vicinity of the outfall is used for the estimate of cross sectional area, it would be 600 square feet. The estimated velocity in the pond in the vicinity of the work area is 0.2 feet/sec. As a conservative estimate, LRT proposes to use 10% of the estimated velocity or 0.02 ft/sec. Therefore the estimated Q for the site is 12 cfs. Using this Q for Qs provides a Dilution Factor of **54.** It is the opinion of LRT that this measure is conservative because the estimated 7Q10 is actually significantly higher if utilizing the length of the entire pond instead of the width in the immediate interface of the out fall.

Consultation with Federal Services

LRT reviewed online electronic data viewers and databases from the Massachusetts Geographical Information System (MassGIS) and 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 or Estimated Habitats of Rare Wildlife or listed as a National Historic Place.

Coverage under NPDES RGP

It is our opinion that the proposed discharge is eligible for coverage under the NPDES RGP. On behalf of BDC, we are requesting coverage under the NPDES RGP for the discharge of wastewater during testing activities to the surface waters of Leverett Pond to the southeast of the Site.

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, BDC is the owner and LRT is the operator; however BDC 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.

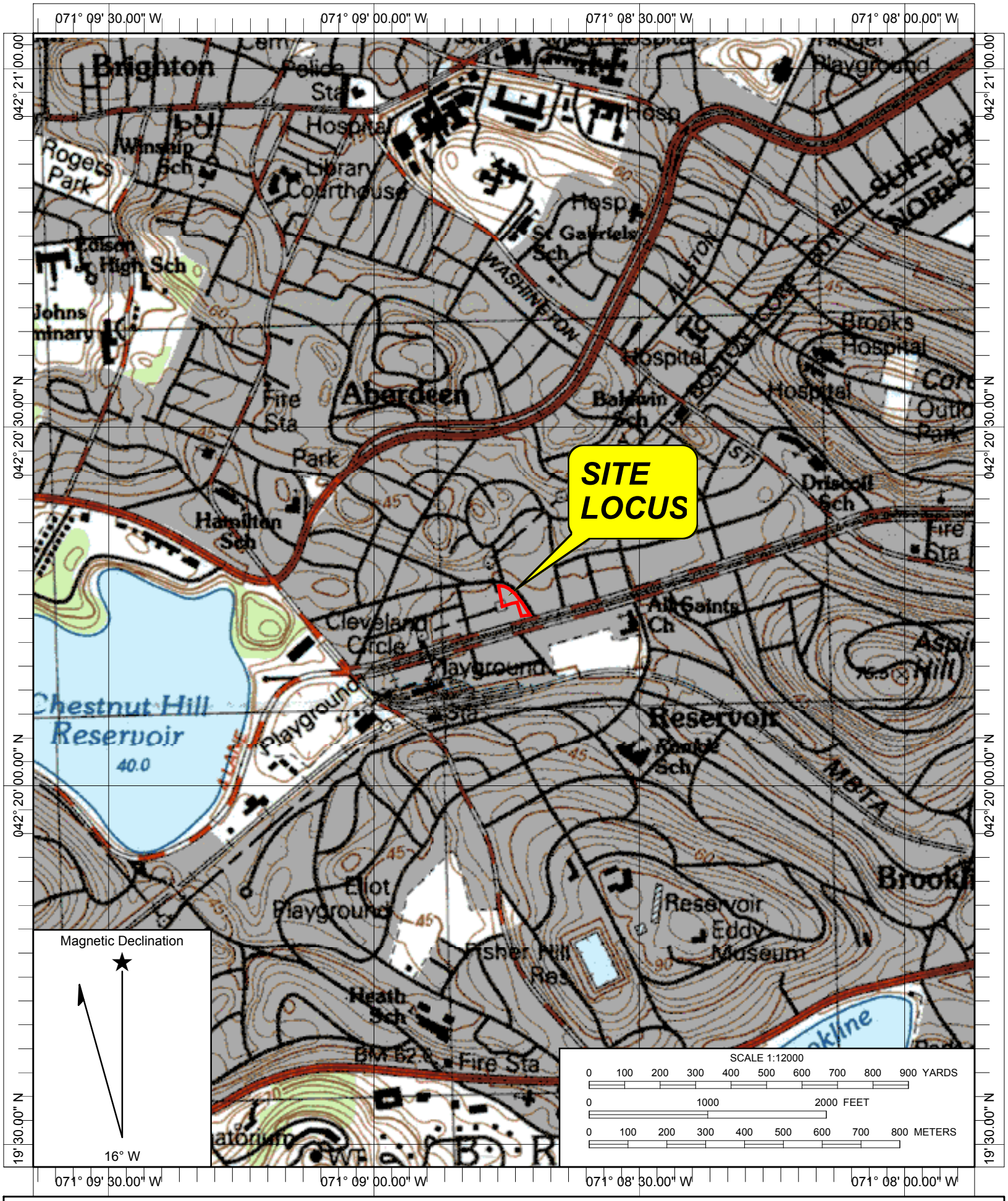
Sincerely,
Lockwood Remediation Technologies, LLC

Paul Lockwood

Paul Lockwood
President

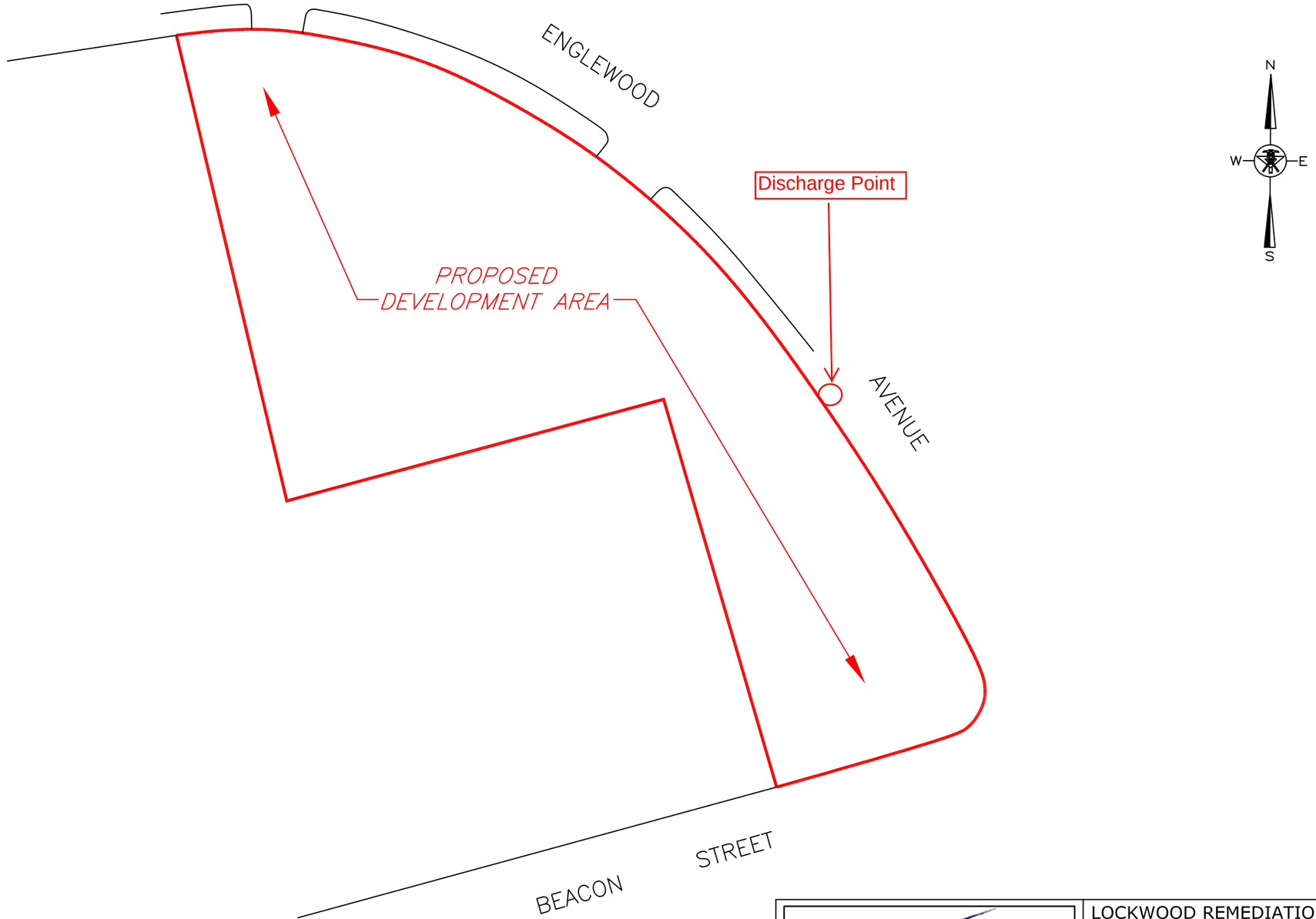
Attachments: Figure 1 Locus Plan
Figure 2 Site Plan
Figure 3 Proposed System Layout
Appendix A – NOI Form
Appendix B – Best Management Practices Plan
Appendix C – Laboratory Data

Figures



Name: BOSTON SOUTH
Date: 12/7/2011
Scale: 1 inch equals 1000 feet

Location: 042° 20' 15.59" N 071° 08' 45.41" W WGS 84
Caption: Figure-1 Site Locus Map
1824 Beacon Street
Brookline, MA

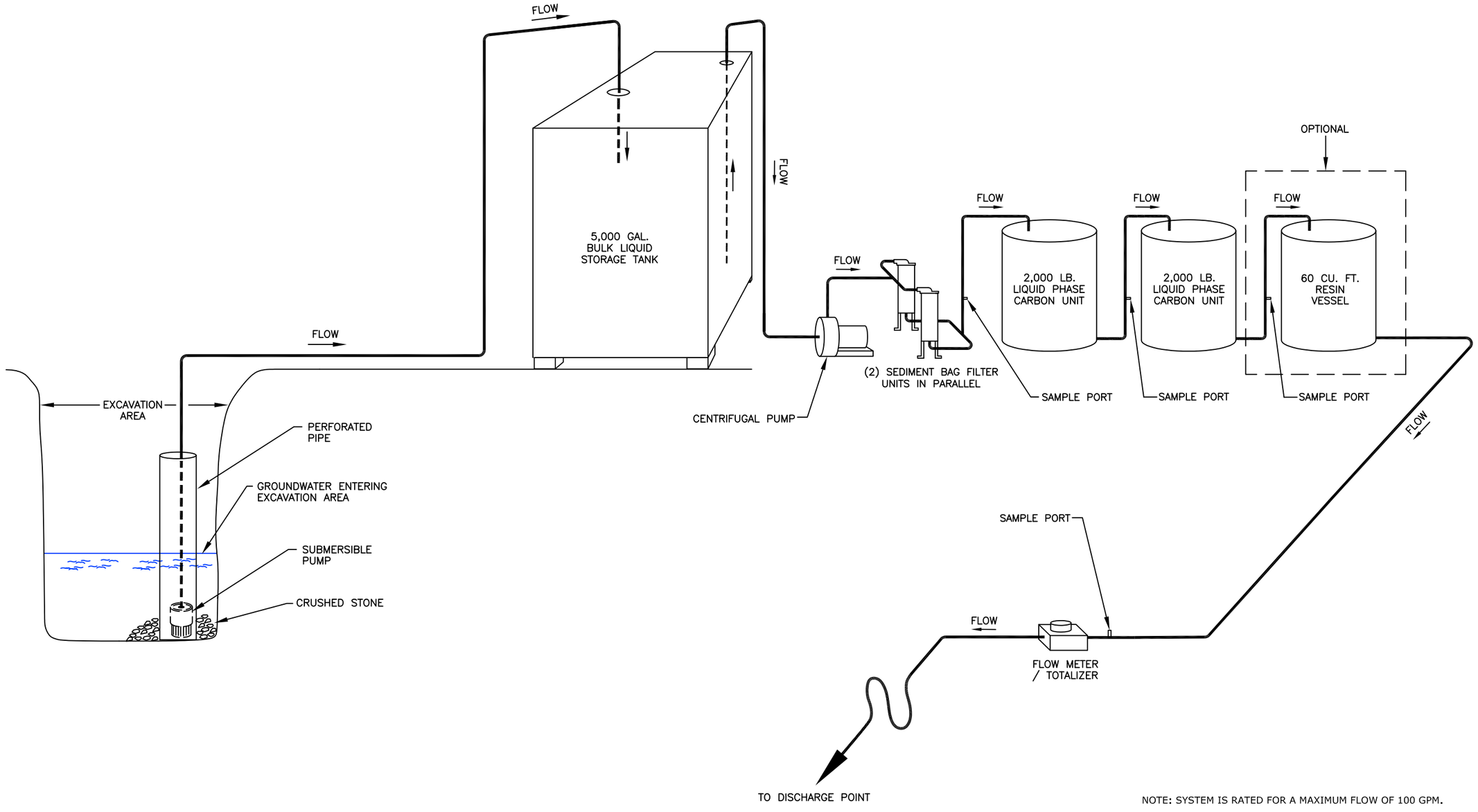


LOCKWOOD REMEDIATION TECHNOLOGIES LLC

127 HARTWELL STREET, SUITE 3
WEST BOYLSTON, MA 01583
TEL.: 774.450.7177 FAX: 888.835.0617
www.lrt-llc.net

SITE LAYOUT PLAN

SCALE: NOT TO SCALE		DR. BY: K. HAZEL
DATE: 12/7/11	APP. BY: PL	JOB NO.: 2-1026
CLIENT: BROOKLINE DEVELOPMENT CORPORATION		FIGURE 2



NOTE: SYSTEM IS RATED FOR A MAXIMUM FLOW OF 100 GPM.

LOCKWOOD REMEDIATION TECHNOLOGIES LLC
127 HARTWELL STREET, SUITE 3
WEST BOYLSTON, MA 01583
TEL.: 774.450.7177 FAX: 888.835.0617
www.lrt-llc.net

EXCAVATION DEWATERING
PROCESS & INSTRUMENTATION DIAGRAM

SCALE: NOT TO SCALE		DR. BY: K. HAZEL
DATE: 12/7/11	APP. BY: PL	JOB NO.: 2-1026
CLIENT: BROOKLINE DEVELOPMENT CORPORATION		FIGURE 3

Appendix A
NOI Form

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General facility/site information. Please provide the following information about the site:

a) Name of **facility/site**: Englewood Properties		**Facility/site** mailing address:		
Location of **facility/site**: longitude: 42.337563 latitude: -71.145422	Facility SIC code(s): 1522	Street: 1842 Beacon Street		
b) Name of **facility/site owner:**		Town: West Boylston		
Email address of facility/site owner: brooklinedevelopment@comcast.net		State: Brookline	Zip: 02445	County: Norfolk
Telephone no. of facility/site **owner**: 617-733-5455				
Fax no. of facility/site **owner**: 617-738-4390		**Owner** is (check one): 1. Federal ○ 2. State/Tribal ○ 3. Private ◉ 4. Other ○ if so, describe:		
Address of **owner** (if different from site):				
Street: 3 Craftsland Road				
Town: Chestnut Hill	State: MA	Zip: 02467	County: Norfolk	
c) Legal name of **operator**: Lockwood Remediation Technology, LLC		**Operator** telephone no: 774-450-7177		
		Operator fax no.: 888-835-0617	**Operator** email: plockwood@lrt-llc.net	
Operator contact name and title: Paul Lockwood - President				
Address of **operator** (if different from owner):	Street: 127 Hartwell Street, Suite 3			
Town: West Boylston	State: MA	Zip: 01583	County: Worcester	

d) Check Y for "yes" or N for "no" for the following:
1. Has a prior NPDES permit exclusion been granted for the discharge? Y ○ N ⊙, if Y, number:
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge?
Y ○ N ⊙, if Y, date and tracking #:
3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Y ⊙ N ○
4. For sites in Massachusetts, is the discharge covered under the Massachusetts Contingency Plan (MCP) and exempt from state permitting? Y ○ N ⊙

e) Is site/facility subject to any State permitting, license, or other action which is causing the generation of discharge? Y ○ N ⊙
If Y, please list:
1. site identification # assigned by the state of NH or MA:
2. permit or license # assigned:
3. state agency contact information: name, location, and telephone number:

f) Is the site/facility covered by any other EPA permit, including:
1. Multi-Sector General Permit? Y ○ N ⊙,
if Y, number:
2. Final Dewatering General Permit? Y ○ N ⊙,
if Y, number:
3. EPA Construction General Permit? Y ○ N ⊙,
if Y, number:
4. Individual NPDES permit? Y ○ N ⊙,
if Y, number:
5. any other water quality related individual or general permit? Y ○ N ⊙, if Y, number:

g) Is the site/facility located within or does it discharge to an Area of Critical Environmental Concern (ACEC)? Y ○ N ⊙

h) Based on the facility/site information and any historical sampling data, identify the sub-category into which the potential discharge falls.

Activity Category	**Activity Sub-Category**
I - Petroleum Related Site Remediation	A. Gasoline Only Sites ☐ B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) ☒ C. Petroleum Sites with Additional Contamination ☐
II - Non Petroleum Site Remediation	A. Volatile Organic Compound (VOC) Only Sites ☐ B. VOC Sites with Additional Contamination ☐ C. Primarily Heavy Metal Sites ☐
III - Contaminated Construction Dewatering	A. General Urban Fill Sites ☐ B. Known Contaminated Sites ☐

IV - Miscellaneous Related Discharges	A. Aquifer Pump Testing to Evaluate Formerly Contaminated Sites ☐ B. Well Development/Rehabilitation at Contaminated/Formerly Contaminated Sites ☐ C. Hydrostatic Testing of Pipelines and Tanks ☐ D. Long-Term Remediation of Contaminated Sumps and Dikes ☐ E. Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) ☐

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

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

Water from dewatering system for a construction project.

b) Provide the following information about each discharge:

1) Number of discharge points: 1

2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)?
Max. flow: 0.223 Is maximum flow a **design value**? Y ◉ N ○
Average flow (include units): 0.1115 (ft3/s) Is average flow a design value or estimate? Design

3) Latitude and longitude of each discharge within 100 feet:
pt.1: lat. 42.337563 long. -71.145422 pt.2: lat. _____ long. _____;
pt.3: lat. _____ long. _____ pt.4: lat. _____ long. _____;
pt.5: lat. _____ long. _____ pt.6: lat. _____ long. _____;
pt.7: lat. _____ long. _____ pt.8: lat. _____ long. _____; etc.

4) If hydrostatic testing, total volume of the discharge (gals):

5) Is the discharge intermittent ◉ or seasonal ○?
Is discharge ongoing? Y ◉ N ○

c) Expected dates of discharge (mm/dd/yy): start Feb 28, 2012 end Jun 30, 2012

d) Please attach a line drawing or flow schematic showing water flow through the facility including:
1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s). See attached Figures 1 and 2.

3. Contaminant information.

a) Based on the sub-category selected (see Appendix III), indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids (TSS)		☐	☒	1	Grab						
2. Total Residual Chlorine (TRC)		☒	☐	1	Grab						
3. Total Petroleum Hydrocarbons (TPH)		☐	☒	1	Grab						
4. Cyanide (CN)	57125	☒	☐	1	Grab						
5. Benzene (B)	71432	☒	☐	1	Grab						
6. Toluene (T)	108883	☒	☐	1	Grab						
7. Ethylbenzene (E)	100414	☒	☐	1	Grab						
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☒	☐	1	Grab						
9. Total BTEX [2]	n/a	☒	☐	1	Grab						
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) [3]	106934	☒	☐	1	Grab						
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☒	☐	1	Grab						
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☒	☐	1	Grab						

***** Numbering system is provided to allow cross-referencing to Effluent Limits and Monitoring Requirements by Sub-Category included in Appendix III, as well as the Test Methods and Minimum Levels associated with each parameter provided in Appendix VI.

[2] BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

[3] EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
13. tert-Amyl Methyl Ether (TAME)	9940508	☒	☐	1	Grab						
14. Naphthalene	91203	☐	☒	1	Grab						
15. Carbon Tetrachloride	56235	☒	☐	1	Grab						
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐	1	Grab						
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐	1	Grab						
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐	1	Grab						
18a. Total dichlorobenzene		☒	☐	1	Grab						
19. 1,1 Dichloroethane (DCA)	75343	☒	☐	1	Grab						
20. 1,2 Dichloroethane (DCA)	107062	☒	☐	1	Grab						
21. 1,1 Dichloroethene (DCE)	75354	☒	☐	1	Grab						
22. cis-1,2 Dichloroethene (DCE)	156592	☒	☐	1	Grab						
23. Methylene Chloride	75092	☒	☐	1	Grab						
24. Tetrachloroethene (PCE)	127184	☒	☐	1	Grab						
25. 1,1,1 Trichloro-ethane (TCA)	71556	☒	☐	1	Grab						
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	1	Grab						
27. Trichloroethene (TCE)	79016	☒	☐	1	Grab						

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
28. Vinyl Chloride (Chloroethene)	75014	☒	☐	1	Grab						
29. Acetone	67641	☒	☐	1	Grab						
30. 1,4 Dioxane	123911	☒	☐	1	Grab						
31. Total Phenols	108952	☒	☐	1	Grab						
32. Pentachlorophenol (PCP)	87865	☒	☐	1	Grab						
33. Total Phthalates (Phthalate esters) [4]		☒	☐	1	Grab						
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐	1	Grab						
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐								
a. Benzo(a) Anthracene	56553	☒	☐	1	Grab						
b. Benzo(a) Pyrene	50328	☒	☐	1	Grab						
c. Benzo(b)Fluoranthene	205992	☒	☐	1	Grab						
d. Benzo(k)Fluoranthene	207089	☒	☐	1	Grab						
e. Chrysene	21801	☒	☐	1	Grab						
f. Dibenzo(a,h)anthracene	53703	☒	☐	1	Grab						
g. Indeno(1,2,3-cd) Pyrene	193395	☒	☐	1	Grab						
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐								

[4] The sum of individual phthalate compounds.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
h. Acenaphthene	83329	☒	☐	1	Grab						
i. Acenaphthylene	208968	☒	☐	1	Grab						
j. Anthracene	120127	☒	☐	1	Grab						
k. Benzo(ghi) Perylene	191242	☒	☐	1	Grab						
l. Fluoranthene	206440	☒	☐	1	Grab						
m. Fluorene	86737	☒	☐	1	Grab						
n. Naphthalene	91203	☒	☐	1	Grab						
o. Phenanthrene	85018	☒	☐	1	Grab						
p. Pyrene	129000	☒	☐	1	Grab						
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☒	☐								
38. Chloride	16887006	☐	☒	1	Grab						
39. Antimony	7440360	☒	☐								
40. Arsenic	7440382	☒	☐	1	Grab						
41. Cadmium	7440439	☒	☐	1	Grab						
42. Chromium III (trivalent)	16065831	☒	☐	1	Grab						
43. Chromium VI (hexavalent)	18540299	☒	☐	1	Grab						
44. Copper	7440508	☐	☒	1	Grab	6010					
45. Lead	7439921	☐	☒	1	Grab	6010					
46. Mercury	7439976	☒	☐								
47. Nickel	7440020	☒	☐	1	Grab						
48. Selenium	7782492	☒	☐								
49. Silver	7440224	☒	☐								
50. Zinc	7440666	☒	☐	1	Grab						
51. Iron	7439896	☐	☒	1	Grab	6010					
Other (describe):		☐	☐								

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
		☐	☐								
		☐	☐								

b) For discharges where **metals** are believed present, please fill out the following (attach results of any calculations):

Step 1: Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y◉ N○	If yes, which metals? Copper, Iron, Lead
Step 2: For any metals which exceed the **Appendix III** limits, calculate the **dilution factor (DF)** using the formula in Part I.A.3.c (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metal: Copper DF: >50-100 Metal: Iron DF: >50-100 Metal: Lead DF: >50-100 Metal: DF: Etc.	Look up the limit calculated at the corresponding dilution factor in **Appendix IV.** Do any of the metals in the **influent** have the potential to exceed the corresponding **effluent** limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y◉ N○ If Y, list which metals: Iron

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:

See attached figure.

b) Identify each applicable treatment unit (check all that apply):	Frac. tank ☒	Air stripper ☐	Oil/water separator ☐	Equalization tanks ☐	Bag filter ☒	GAC filter ☒
	Chlorination ☐	De-chlorination ☐	Other (please describe):			

c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate**(s) (gallons per minute) of the treatment system:
Average flow rate of discharge 50 gpm Maximum flow rate of treatment system 100 gpm
Design flow rate of treatment system 100 gpm

d) A description of chemical additives being used or planned to be used (attach MSDS sheets):

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct to receiving water ☐	Within facility (sewer) ☐	Storm drain ☒	Wetlands ☐	Other (describe):

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:
Discharge out fall to storm drain along Englewood Avenue that discharges to Leverett Pond

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:
1. For multiple discharges, number the discharges sequentially.
2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water
The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

d) Provide the state water quality classification of the receiving water B

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 12 cfs
Please attach any calculation sheets used to support stream flow and dilution calculations.

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Y ○ N ◉ If yes, for which pollutant(s)?

Is there a final TMDL? Y ○ N ◉ If yes, for which pollutant(s)?

6. ESA and NHPA Eligibility.

Please provide the following information according to requirements of Permit Parts I.A.4 and I.A.5 Appendices II and VII.

a) Using the instructions in Appendix VII and information on Appendix II, under which criterion listed in Part I.C are you eligible for coverage under this general permit?

A ___ B ___ C ___ D ___ E ___ F ___

b) If you selected Criterion D or F, has consultation with the federal services been completed? Y___ N___ Underway___

c) If consultation with U.S. Fish and Wildlife Service and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is "not likely to adversely affect" listed species or critical habitat received? Y___ N___

d) Attach documentation of ESA eligibility as described in the NOI instructions and required by Appendix VII, Part I.C, Step 4.

e) Using the instructions in Appendix VII, under which criterion listed in Part II.C are you eligible for coverage under this general permit?

1 ___ 2 ___ 3 ___

f) If Criterion 3 was selected, attach all written correspondence with the State or Tribal historic preservation officers, including any terms and conditions that outline measures the applicant must follow to mitigate or prevent adverse effects due to activities regulated by the RGP.

7. 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.

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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/Site Name:	1842 Beacon Street, Brookline, MA
Operator signature:	GE OLLC Mgr.
Printed Name &Title:	Jeff Feurman, President
Date:	2/14/12

Appendix B
Best Management Practices Plan

127 Hartwell Street, Suite 3
West Boylston, Massachusetts 01583
Tel: 774.450.7177
Fax: 888.835.0617
www.lrt-llc.net

BEST MANAGEMENT PRACTICES PLAN

National Pollutant Discharge Elimination System – Remediation General Permit

Temporary Construction Dewatering
1842 Beacon Street – Brookline, Massachusetts

A Notice of Intent (NOI) for a Remediation General Permit (RGP) under the National Pollutant Discharge Elimination System (NPDES) has been submitted to the US Environmental Protection Agency (EPA) on behalf of the Brookline Development Corporation (BDC) by Lockwood Remediation Technologies, LLC (LRT) in anticipation of temporary construction site dewatering planned to occur during proposed construction of an apartment building and parking garage at the above referenced site (the Site). This Best Management Practices Plan (BMPP) was prepared in accordance with the general requirements of the NPDES RGP, and related guidance documentation provided by the EPA. The BMPP is included as an Appendix to the NOI and will be posted at the Site during the time of the work as specified in the NOI.

Water Treatment and Management

Construction dewatering will be conducted from either sumps or deep wells located inside the excavation. The treatment system will include an equalization tank, pumps, and filtration and at a minimum to reduce low concentrations of total suspended solids (TSS), volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). This NOI has been prepared for the management of dewatering from the Site; please refer to Figure 1 Locus Plan for an overview of the immediate area surrounding the Site. The proposed work area is referred to as 1842 Beacon Street and is bounded residential properties to the west and north, by Englewood Avenue to the east and to the south by Beacon Street across which are residential properties; Figure 2 Site Plan.

Discharge Monitoring and Compliance

Routine Operation & Maintenance (O&M) will be completed on the water treatment system. Typical monitoring includes checking the condition of the treatment system and the collection of samples throughout the treatment system to verify the treatment system discharge is in compliance with the RGP. In the event that the system effluent is not within the discharge criteria of the RGP, modification to the treatment system may occur until discharge compliance can be consistently achieved. Please refer to Figure 3 for a layout of the proposed treatment system.

The total monthly discharge will be monitored by a non-resettable flow meter and totalizer. Monthly monitoring reports will be compiled and maintained at the Site. Employees who have direct or indirect responsibility for enduring compliance with the RGP will be trained by the treatment system operator.

Management of Treatment System Materials

No potential sources of pollutants other than TSS, naturally occurring metals associated with the TSS and low concentrations of VOC are anticipated during construction dewatering activities. Dewatering effluent will be pumped directly to the treatment system from the excavation via hoses and sumps to minimize handling. The general contractor at the Site will establish staging areas on

the Site away from the excavation and treatment system. Sediment collected in the frac tank used in the treatment system will be characterized and disposed of as soil at an appropriate receiving facility in accordance with the applicable laws and regulations. Any bag filters will be containerized and disposed of to an appropriate receiving facility. If used, any media (i.e. granular activated carbon, ion exchange resin) will be profiled and recycled at an approved receiving facility.

Appendix C
Laboratory Data

ANALYTICAL REPORT

Tuesday, December 06, 2011

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

Paul Lockwood
LRT, LLC
127 Hartwell Street, Suite 3
W. Boylston, MA 01583

TEL: (774) 450-7177
FAX:

Project: 2-1026
Location: Gowdy Group

Order No.: 1111293

Dear Paul Lockwood:

GeoLabs, Inc. received 1 sample(s) on 11/28/2011 for the analyses presented in the following report.

The laboratory results in this report relate only to samples submitted.

All data for associated QC met method or laboratory specifications, except when noted in the Case Narrative.

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

Sincerely,

David Mick
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

CT (PH-0148) - MA (M-MA015) - ME (MA0015) - NH (2508) - NJ (MA009) - RI (LA000252)

Accredited in Accordance with NELAC

Date: *06-Dec-11*

CLIENT: LRT, LLC
Project: 2-1026
Lab Order: 1111293

CASE NARRATIVE

Physical Condition of Samples

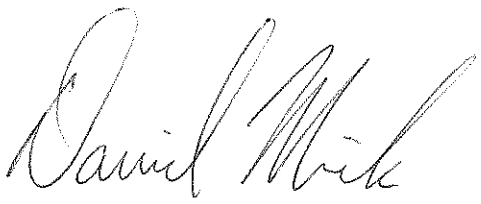
The project was received by the laboratory in satisfactory condition. The sample(s) were received undamaged, in appropriate containers with the correct preservation.

Project Documentation

The project was accompanied by satisfactory Chain of Custody documentation.

Analysis of Sample(s)

All extractable samples were extracted and analyzed and any Volatile samples were analyzed within method specified holding times and according to GeoLabs documented Standard Operating Procedure. No analytical anomalies or non-conformances were noted by the laboratory during the processing of these samples.

SIGNATURE:  LAB DIRECTOR

PRINTED NAME: David Mick DATE: December 6, 2011

ANALYTICAL REPORT

Reported Date: 06-Dec-11

CLIENT:	LRT, LLC	**Client Sample ID:**	B4112811
Lab Order:	1111293	**Collection Date:**	11/28/2011
Project:	2-1026	**Date Received:**	11/28/2011
Lab ID:	1111293-001	**Matrix:**	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS - E624						Analyst: ZC
Prep Method:		**Prep Date:**				
1,1,1-Trichloroethane	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	12/2/2011 10:46:00 AM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
1,1-Dichloroethane	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
1,1-Dichloroethene	ND	2.00		µg/L	1	12/2/2011 10:46:00 AM
1,2-Dichloroethane	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
1,2-Dichloropropane	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
1,3-Dichloropropane	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
2-Butanone	ND	10.0		µg/L	1	12/2/2011 10:46:00 AM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
2-Hexanone	ND	10.0		µg/L	1	12/2/2011 10:46:00 AM
4-Methyl-2-Pentanone	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
Acetone	ND	50.0		µg/L	1	12/2/2011 10:46:00 AM
Benzene	ND	2.00		µg/L	1	12/2/2011 10:46:00 AM
Bromodichloromethane	ND	2.00		µg/L	1	12/2/2011 10:46:00 AM
Bromoform	ND	2.00		µg/L	1	12/2/2011 10:46:00 AM
Bromomethane	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
Carbon Tetrachloride	ND	2.00		µg/L	1	12/2/2011 10:46:00 AM
Chlorobenzene	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
Chloroethane	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
Chloroform	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
Chloromethane	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	12/2/2011 10:46:00 AM
Dibromochloromethane	ND	2.00		µg/L	1	12/2/2011 10:46:00 AM
Dichlorodifluoromethane	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
Ethylbenzene	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
Methylene Chloride	ND	10.0		µg/L	1	12/2/2011 10:46:00 AM
Tetrachloroethene	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
Toluene	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
trans-1,2-Dichloroethene	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	12/2/2011 10:46:00 AM
Trichloroethene	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
Trichlorofluoromethane	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
Vinyl Chloride	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
Xylenes, Total	ND	5.00		µg/L	1	12/2/2011 10:46:00 AM
Surr: 1,2-Dichloroethane-d4	113	70-130		%REC	1	12/2/2011 10:46:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside recovery limits		

GeoLabs, Inc.
45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reported Date: 06-Dec-11

CLIENT:	LRT, LLC	**Client Sample ID:**	B4112811
Lab Order:	1111293	**Collection Date:**	11/28/2011
Project:	2-1026	**Date Received:**	11/28/2011
Lab ID:	1111293-001	**Matrix:**	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS - E624						Analyst: ZC
Prep Method:		**Prep Date:**				
Surr: 4-Bromofluorobenzene	87.2	70-130		%REC	1	12/2/2011 10:46:00 AM
Surr: Dibromofluoromethane	112	70-130		%REC	1	12/2/2011 10:46:00 AM
Surr: Toluene-d8	113	70-130		%REC	1	12/2/2011 10:46:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside recovery limits		

GeoLabs, Inc.
45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

CHAIN OF CUSTODY RECORD

GeoLabs, Inc. *Environmental Laboratories*
45 Johnson Lane, Braintree, MA 02184
p 781.848.7844 • f 781.848.7811
www.geolabs.com

1111293 PAGE OF 4

Sample Handling: circle choice	
Filtration	Done
	Not Needed
	Lab to do
Preservation	Lab to do Y / N

Special Instructions

Turnaround: circle one		Data Delivery: circle choice (s)		Requirements: circle choice (s)		
1-day	3-day	Fax	email	GW-1	MCP Methods	CT RCP (Reasonable Confidence Protocols)
2-day	(5) 7-days	Format:		S-1	DEP	State / Fed Program - Criteria
		Excel	PDF	QC	Other	

Client: LRT
Address: 127 Hartwell Ave
West Boylston MA 01583
Contact: Paul Lackwood

Phone: 1774-450 7177
Fax:
email: plackwood@lrt-llc.Net

Project: 2-1026 Gowdy Croop
Project PO: 2-1026
Invoice to *: LRT

Preservative:

COLLECTION				CONTAINER						Analysis Requested									
DATE	TIME	SAMPLED BY	SAMPLE LOCATION / ID	TYPE	QUANITY	MATRIX	COMP	GRAB	GeoLabs SAMPLE NUMBER	VOCs 624								TEMPERATURE	LAB pH
11-28-11		TC	B4 11 28 11	V	2	GW		GW	11293-001	2V								7/5	-

Matrix Codes:
GW = Ground Water DW = Drinking Water S = Soil A = Air
WW = Waste Water SL = Sludge O = Oil OT = Other

Received on Ice ✓

Preservatives
1 = Hcl 3 = H2SO4 5 = NaOH 7 = Other
2 = HNO3 4 = Na2S2O3 6 = MEOH

Containers:
A = Amber B = Bag O = Other
G = Glass P = Plastic
S = Summa V = Voa

Relinquished by:	Date / Time	Received by:	Date / Time
Amy S Zeun	11-28-11 1:45	Ken McKeown	11/28/11 1:45
Ken McKeown	11/28/11 3:50	Danielle Ney	11/28/11 3:50

* Terms: Payment due within 30 days unless other arrangements are made. Past due balances subject to interest and collection cost.
Note: Homeowners and Law Firms must pay when dropping off samples. We accept cash, check and credit cards.

CT (PH-0148) MA (MA - 015) NH (2508) NJ (MA-009)
PA (68-03417) RI (LA000252) ME (MA - 0015)

ANALYTICAL REPORT

Friday, November 18, 2011

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

Paul Lockwood
LRT, LLC
127 Hartwell Street, Suite 3
W. Boylston, MA 01583

TEL: (774) 450-7177
FAX:

Project: 2-1026
Location: Gowdy Group

Order No.: 1111062

Dear Paul Lockwood:

GeoLabs, Inc. received 1 sample(s) on 11/4/2011 for the analyses presented in the following report.

The laboratory results in this report relate only to samples submitted.

All data for associated QC met method or laboratory specifications, except when noted in the Case Narrative.

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

Sincerely,

David Mick
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

CT (PH-0148) - MA (M-MA015) - ME (MA0015) - NH (2508) - NJ (MA009) - RI (LA000252)

Accredited in Accordance with NELAC

Date: *18-Nov-11*

CLIENT:	LRT, LLC
Project:	2-1026
Lab Order:	1111062

CASE NARRATIVE

Physical Condition of Samples

The project was received by the laboratory in satisfactory condition. The sample(s) were received undamaged, in appropriate containers with the correct preservation.

Project Documentation

The project was accompanied by satisfactory Chain of Custody documentation.

Analysis of Sample(s)

All extractable samples were extracted and analyzed and any Volatile samples were analyzed within method specified holding times and according to GeoLabs documented Standard Operating Procedure.

The following analytical anomalies or non-conformances were noted by the laboratory during the processing of these samples:

625 acid surrogates fail. Insufficient sample was provided for re-extraction.

SIGNATURE: LAB DIRECTOR

PRINTED NAME: David Mick DATE: November 18, 2011

ANALYTICAL REPORT

Reported Date: 18-Nov-11

CLIENT:	LRT, LLC	**Client Sample ID:**	B4 110311
Lab Order:	1111062	**Collection Date:**	11/3/2011 1:30:00 PM
Project:	2-1026	**Date Received:**	11/4/2011
Lab ID:	1111062-001	**Matrix:**	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
NON-POLAR 1664A - E1664A						Analyst: Admi
Prep Method:		**Prep Date:**				
Total Petroleum Hydrocarbons	ND	5.00		mg/L	1	11/7/2011
TOTAL SUSPENDED SOLIDS - SM2540D						Analyst: Admi
Prep Method:		**Prep Date:**				
Total Suspended Solids	*11300*	4.00		mg/L	1	11/8/2011
POLYCHLORINATED BIPHENYLS - SW8082						Analyst: KG
Prep Method: (SW3510B)		**Prep Date:** 11/8/2011 8:40:50 AM				
Aroclor 1016	ND	0.269		µg/L	1	11/9/2011
Aroclor 1221	ND	0.269		µg/L	1	11/9/2011
Aroclor 1232	ND	0.269		µg/L	1	11/9/2011
Aroclor 1242	ND	0.269		µg/L	1	11/9/2011
Aroclor 1248	ND	0.269		µg/L	1	11/9/2011
Aroclor 1254	ND	0.269		µg/L	1	11/9/2011
Aroclor 1260	ND	0.269		µg/L	1	11/9/2011
Surr: Decachlorobiphenyl Sig 1	51.8	30-150		%REC	1	11/9/2011
Surr: Decachlorobiphenyl Sig 2	52.3	30-150		%REC	1	11/9/2011
Surr: Tetrachloro-m-Xylene Sig 1	88.5	30-150		%REC	1	11/9/2011
Surr: Tetrachloro-m-Xylene Sig 2	79.9	30-150		%REC	1	11/9/2011
TOTAL METALS BY GFAA - E200.9						Analyst: QS
Prep Method: (200.9)		**Prep Date:** 11/9/2011 2:46:07 PM				
Arsenic	*0.00420*	0.00100		mg/L	1	11/9/2011
TOTAL METALS BY ICP - SW6010B						Analyst: QS
Prep Method: (SW3010A)		**Prep Date:** 11/7/2011 3:27:11 PM				
Antimony	ND	0.00600		mg/L	1	11/7/2011
Cadmium	ND	0.00400		mg/L	1	11/7/2011
Chromium	ND	0.0700		mg/L	1	11/7/2011

Qualifiers:

- B Analyte detected in the associated Method Blank
- BRL Below Reporting Limit
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside recovery limits

ANALYTICAL REPORT

Reported Date: 18-Nov-11

CLIENT:	LRT, LLC	**Client Sample ID:**	B4 110311
Lab Order:	1111062	**Collection Date:**	11/3/2011 1:30:00 PM
Project:	2-1026	**Date Received:**	11/4/2011
Lab ID:	1111062-001	**Matrix:**	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP - SW6010B						Analyst: **QS**
Prep Method: (SW3010A)			**Prep Date:**	**11/7/2011 3:27:11 PM**		
Copper	*0.111*	0.0200		mg/L	1	11/8/2011
Iron	*5.21*	0.0600		mg/L	1	11/7/2011
Lead	*0.0240*	0.0100		mg/L	1	11/7/2011
Nickel	ND	0.100		mg/L	1	11/7/2011
Selenium	ND	0.0500		mg/L	1	11/7/2011
Silver	ND	0.00200		mg/L	1	11/7/2011
Zinc	ND	0.180		mg/L	1	11/7/2011
TOTAL MERCURY - E245.1						Analyst: **EC**
Prep Method: (SW7470A/E245.1)			**Prep Date:**	**11/9/2011 12:31:41 PM**		
Mercury	ND	0.0005		mg/L	1	11/9/2011
SEMIVOLATILES BY 625						Analyst: **ZYZ**
Prep Method: (E625)			**Prep Date:**	**11/8/2011 8:36:33 AM**		
1,2,4-Trichlorobenzene	ND	0.798		µg/L	1	11/8/2011 2:07:00 PM
1,2-Dichlorobenzene	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
1,2-Dinitrobenzene	ND	5.32		µg/L	1	11/8/2011 2:07:00 PM
1,3-Dichlorobenzene	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
1,3-Dinitrobenzene	ND	0.798		µg/L	1	11/8/2011 2:07:00 PM
1,4-Dichlorobenzene	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
1,4-Dinitrobenzene	ND	5.32		µg/L	1	11/8/2011 2:07:00 PM
2,3,4,6-Tetrachlorophenol	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
2,4,5-Trichlorophenol	ND	0.798		µg/L	1	11/8/2011 2:07:00 PM
2,4,6-Trichlorophenol	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
2,4-Dichlorophenol	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
2,4-Dimethylphenol	ND	3.99		µg/L	1	11/8/2011 2:07:00 PM
2,4-Dinitrophenol	ND	21.3		µg/L	1	11/8/2011 2:07:00 PM
2,4-Dinitrotoluene	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
2,6-Dinitrotoluene	ND	0.266		µg/L	1	11/8/2011 2:07:00 PM
2-Chloronaphthalene	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
2-Chlorophenol	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
2-Methylnaphthalene	ND	0.798		µg/L	1	11/8/2011 2:07:00 PM

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- S Spike Recovery outside recovery limits
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ANALYTICAL REPORT

Reported Date: 18-Nov-11

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Project:	2-1026	**Date Received:**	11/4/2011
Lab ID:	1111062-001	**Matrix:**	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY 625						Analyst: ZYZ
Prep Method: (E625)			**Prep Date:**	**11/8/2011 8:36:33 AM**		
2-Methylphenol	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
2-Nitroaniline	ND	0.798		µg/L	1	11/8/2011 2:07:00 PM
2-Nitrophenol	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
3,3'-Dichlorobenzidine	ND	2.66		µg/L	1	11/8/2011 2:07:00 PM
3-Methylphenol/4-Methylphenol	ND	1.60		µg/L	1	11/8/2011 2:07:00 PM
3-Nitroaniline	ND	1.60		µg/L	1	11/8/2011 2:07:00 PM
4,6-Dinitro-2-Methylphenol	ND	5.32		µg/L	1	11/8/2011 2:07:00 PM
4-Bromophenyl Phenyl Ether	ND	0.798		µg/L	1	11/8/2011 2:07:00 PM
4-Chloro-3-Methylphenol	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
4-Chloroaniline	ND	2.66		µg/L	1	11/8/2011 2:07:00 PM
4-Chlorophenyl Phenyl Ether	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
4-Nitroaniline	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
4-Nitrophenol	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
Acenaphthene	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
Acenaphthylene	ND	0.266		µg/L	1	11/8/2011 2:07:00 PM
Acetophenone	ND	0.798		µg/L	1	11/8/2011 2:07:00 PM
Aniline	ND	2.39		µg/L	1	11/8/2011 2:07:00 PM
Anthracene	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
Azobenzene	ND	5.32		µg/L	1	11/8/2011 2:07:00 PM
Benz(a)Anthracene	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
Benzidine	ND	5.32		µg/L	1	11/8/2011 2:07:00 PM
Benzo(a)Pyrene	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
Benzo(b)Fluoranthene	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
Benzo(g,h,i)Perylene	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
Benzo(k)Fluoranthene	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
Benzyl Alcohol	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
Bis(2-Chloroethoxy)Methane	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
Bis(2-Chloroethyl)Ether	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
Bis(2-Chloroisopropyl)Ether	ND	0.798		µg/L	1	11/8/2011 2:07:00 PM
Bis(2-Ethylhexyl)Phthalate	ND	2.13		µg/L	1	11/8/2011 2:07:00 PM
Butyl Benzyl Phthalate	ND	1.33		µg/L	1	11/8/2011 2:07:00 PM
Carbazole	ND	0.798		µg/L	1	11/8/2011 2:07:00 PM
Chrysene	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
Dibenz(a,h)Anthracene	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
Dibenzofuran	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
Diethyl Phthalate	ND	1.33		µg/L	1	11/8/2011 2:07:00 PM

Qualifiers:

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- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside recovery limits

ANALYTICAL REPORT

Reported Date: 18-Nov-11

CLIENT:	LRT, LLC	**Client Sample ID:**	B4 110311
Lab Order:	1111062	**Collection Date:**	11/3/2011 1:30:00 PM
Project:	2-1026	**Date Received:**	11/4/2011
Lab ID:	1111062-001	**Matrix:**	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY 625						Analyst: ZYZ
Prep Method: (E625)			**Prep Date:**	**11/8/2011 8:36:33 AM**		
Dimethyl Phthalate	ND	1.86		µg/L	1	11/8/2011 2:07:00 PM
Di-n-Butyl Phthalate	ND	0.798		µg/L	1	11/8/2011 2:07:00 PM
Di-n-Octyl Phthalate	ND	2.13		µg/L	1	11/8/2011 2:07:00 PM
Fluoranthene	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
Fluorene	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
Hexachlorobenzene	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
Hexachlorobutadiene	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
Hexachlorocyclopentadiene	ND	10.6		µg/L	1	11/8/2011 2:07:00 PM
Hexachloroethane	ND	2.13		µg/L	1	11/8/2011 2:07:00 PM
Indeno(1,2,3-cd)Pyrene	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
Isophorone	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
Naphthalene	*1.18*	0.798		µg/L	1	11/8/2011 2:07:00 PM
Nitrobenzene	ND	0.798		µg/L	1	11/8/2011 2:07:00 PM
N-Nitrosodimethylamine	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
N-Nitrosodi-n-Propylamine	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
N-Nitrosodiphenylamine	ND	5.32		µg/L	1	11/8/2011 2:07:00 PM
Pentachlorophenol	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
Phenanthrene	ND	0.532		µg/L	1	11/8/2011 2:07:00 PM
Phenol	ND	1.06		µg/L	1	11/8/2011 2:07:00 PM
Pyrene	ND	1.33		µg/L	1	11/8/2011 2:07:00 PM
Pyridine	ND	1.33		µg/L	1	11/8/2011 2:07:00 PM
Surr: 2,4,6-Tribromophenol	0	15-110	S	%REC	1	11/8/2011 2:07:00 PM
Surr: 2-Fluorobiphenyl	55.8	30-130		%REC	1	11/8/2011 2:07:00 PM
Surr: 2-Fluorophenol	1.93	15-110	S	%REC	1	11/8/2011 2:07:00 PM
Surr: 4-Terphenyl-d14	65.7	30-130		%REC	1	11/8/2011 2:07:00 PM
Surr: Nitrobenzene-d5	48.6	30-130		%REC	1	11/8/2011 2:07:00 PM
Surr: Phenol-d6	0.747	15-110	S	%REC	1	11/8/2011 2:07:00 PM

NOTES:
Acid surrogates fail. Insufficient sample to re-extract.

VOLATILE ORGANICS - E624						Analyst: ZC
Prep Method:			**Prep Date:**			
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	11/9/2011 4:44:00 AM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
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ANALYTICAL REPORT

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CLIENT:	LRT, LLC	**Client Sample ID:**	B4 110311
Lab Order:	1111062	**Collection Date:**	11/3/2011 1:30:00 PM
Project:	2-1026	**Date Received:**	11/4/2011
Lab ID:	1111062-001	**Matrix:**	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS - E624						Analyst: ZC
Prep Method:		**Prep Date:**				
1,1-Dichloroethane	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
1,1-Dichloroethene	ND	2.00		µg/L	1	11/9/2011 4:44:00 AM
1,2-Dichloroethane	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
1,2-Dichloropropane	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
2-Butanone	ND	10.0		µg/L	1	11/9/2011 4:44:00 AM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
2-Hexanone	ND	10.0		µg/L	1	11/9/2011 4:44:00 AM
4-Methyl-2-Pentanone	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
Acetone	ND	50.0		µg/L	1	11/9/2011 4:44:00 AM
Benzene	ND	2.00		µg/L	1	11/9/2011 4:44:00 AM
Bromodichloromethane	ND	2.00		µg/L	1	11/9/2011 4:44:00 AM
Bromoform	ND	2.00		µg/L	1	11/9/2011 4:44:00 AM
Bromomethane	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
Carbon Tetrachloride	ND	2.00		µg/L	1	11/9/2011 4:44:00 AM
Chlorobenzene	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
Chloroethane	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
Chloroform	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
Chloromethane	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	11/9/2011 4:44:00 AM
Dibromochloromethane	ND	2.00		µg/L	1	11/9/2011 4:44:00 AM
Dichlorodifluoromethane	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
Ethylbenzene	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
Methylene Chloride	ND	10.0		µg/L	1	11/9/2011 4:44:00 AM
Tetrachloroethene	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
Toluene	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
trans-1,2-Dichloroethene	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	11/9/2011 4:44:00 AM
Trichloroethene	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
Trichlorofluoromethane	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
Vinyl Chloride	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
Xylenes, Total	ND	5.00		µg/L	1	11/9/2011 4:44:00 AM
Surr: 1,2-Dichloroethane-d4	122	70-130		%REC	1	11/9/2011 4:44:00 AM
Surr: 4-Bromofluorobenzene	108	70-130		%REC	1	11/9/2011 4:44:00 AM
Surr: Dibromofluoromethane	104	70-130		%REC	1	11/9/2011 4:44:00 AM
Surr: Toluene-d8	104	70-130		%REC	1	11/9/2011 4:44:00 AM

Qualifiers:

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ANALYTICAL REPORT **Reported Date:** 18-Nov-11

CLIENT:	LRT, LLC	**Client Sample ID:**	B4 110311
Lab Order:	1111062	**Collection Date:**	11/3/2011 1:30:00 PM
Project:	2-1026	**Date Received:**	11/4/2011
Lab ID:	1111062-001	**Matrix:**	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS - E624						Analyst: ZC
Prep Method:		**Prep Date:**				
CHLORIDE - E300.0						Analyst: SUB
Prep Method:		**Prep Date:**				
Chloride	ND	3.00		mg/L	1	11/8/2011
NOTES: Sample was analyzed by Phoenix Environmental Laboratories, M-CT007.						
CYANIDE, TOTAL - SM4500-CN-C,E						Analyst: JC
Prep Method:		**Prep Date:**				
Cyanide, Total	ND	0.0200		mg/L	1	11/17/2011
TRIVALENT CHROMIUM IN WATER - 6010B&3500						Analyst: RP
Prep Method:		**Prep Date:**				
Trivalent Chromium, Cr3+	ND	0.070		mg/L	1	11/8/2011
HEXAVALENT CHROMIUM - SM3500-CR-D						Analyst: RP
Prep Method:		**Prep Date:**				
Chromium, Hexavalent	ND	0.0500		mg/L	1	11/4/2011 1:20:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside recovery limits		

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CHAIN OF CUSTODY RECORD

GeoLabs, Inc. *Environmental Laboratories*
45 Johnson Lane, Braintree, MA 02184
p 781.848.7844 • f 781.848.7811
www.geolabs.com

Sample Handling: circle choice
Filtration: Done / Not Needed / Lab to do
Preservation: Lab to do Y / N

Special Instructions: pH and TEMP MEASURED IN THE FIELD.

Turnaround: circle one
1-day 3-day
2-day (5) 7-days

Data Delivery: circle choice (s)
Fax email
Format:
Excel PDF

Requirements: circle choice (s)
GW-1 MCP Methods CT RCP (Reasonable Confidence Protocols)
S-1 DEP State / Fed Program - Criteria
QC Other

Client: LRT
Address: 127 Hartwell RD
West Boylston MA 01583
Contact: Paul Lockwood

Phone: 1774-450 71 77
Fax:
email: plockwood@lrt-llc.net

Project: 2-1026 Gowdy Group
Project PO: 2-1026
Invoice to *: LRT

Preservative: HCL | None | H2SO4 | None | NaOH | None | None | HNO3

COLLECTION DATE	TIME	SAMPLED BY	SAMPLE LOCATION / ID	CONTAINER TYPE	CONTAINER QUANTITY	MATRIX	COMP	GRAB	GeoLabs SAMPLE NUMBER	Analysis Requested: VOCs 624	TSS	TPH 1664	625	CN	608	Cr+6	6+3 SD, As, Cu, Pb, Ni, Zn, Ag	TEMPERATURE	pH
11-3-11	1.30	TR	B-4 110311			GW		GW	11062-001	2V	1P	1A	1A	1P	1A	1P	1P	5.0	7.18

Matrix Codes:
GW = Ground Water DW = Drinking Water S = Soil A = Air
WW = Waste Water SL = Sludge O = Oil OT = Other

Received on Ice ✓

Preservatives
1 = Hcl 3 = H2SO4 5 = NaOH 7 = Other
2 = HNO3 4 = Na2S2O3 6 = MEOH

Containers:
A = Amber B = Bag O = Other
G = Glass P = Plastic
S = Summa V = Voa

Relinquished by:	Date / Time	Received by:	Date / Time
	11-3-11 - 3.30		11-3-11 - 3:50
	11-4-11 - 10:30		11/4/11 10:30 AM
			11/4/11 10:00

* Terms: Payment due within 30 days unless other arrangements are made. Past due balances subject to interest and collection cost.
Note: Homeowners and Law Firms must pay when dropping off samples. We accept cash, check and credit cards.

CT (PH-0148) MA (MA - 015) NH (2508) NJ (MA-009)
PA (68-03417) RI (LA000252) ME (MA - 0015)