Submittal Review
Prepared by: Robert Fields, STV

December 3, 2015

Project
PS 52R
SCA LLW NO.: 091078

Submission

Submittal:	02200 - (Excavated Material Disposal Plan)
Specification reference:	1.05 and 3.06
Received date:	11/23/15
Copies:	1 - Electronic

STV has completed a review of the Excavated Material Disposal Plan (EMDP) submittal package prepared for PS 52R. This review was completed with respect to the EMDP requirements specified in Specification Section 02200. The submittal was prepared and signed by Mr. Ariel Czemerinski of AMC Engineering, PLLC on behalf of MDF Contacting Corporation (the Contractor).

The submission contains the following components: waste characterization analytical data; Exhibit A of the Clean Earth of Carteret (CEC) Material Profile Sheet; a letter of analytical testing disclosure to CEC from the Contractor; and a pre-acceptance letter for the proposed material for disposal from CEC.

STV understands that the Contractor proposes to characterize, excavate, manage, transport, and dispose approximately 1,000 cubic yards of non-hazardous excavated material (NHEM) as part of a flood elimination project (excavation for new concrete pavers and boiler replacement).

Specific actions are as follows:

Product Submissions	**Review Action**
02200 – EMDP Disposal Documentation	Revise and resubmit [1 - 6]

NOTES:

1. The analytical data disclosure letter from the Contractor and the pre-acceptance Letter from CEC are acceptable.

2. Items A.4, A.5 and A.6 must be revised to include Alexander Lempert (name), Alempert@nycsca.org (email), and 718-472-8501 (phone).

3. The response boxes should remain unchecked for item C.8 on the Material Profile Sheet.

4. Item C.8 on the Material Profile Sheet should be qualified (hand written statement on form) that the material was **not tested** for radioactive material.

5. The response box 'No' should be unchecked and the box 'N/A' should be checked for item C.9b on the Material Profile Sheet.

225 PARK AVENUE SOUTH
NEW YORK, NEW YORK 10003-1604
(212) 777-4400 FAX: (212) 529-5237

6. The Contractor is responsible for all waste characterization sampling required by the permit conditions of the selected disposal facility. If the excavated material from the site is rejected by the selected disposal facility for any reason, the Contractor is required to find an alternate facility that will accept the NHEM at no additional cost to the SCA and with no impact to the project schedule. In such instance, the alternate disposal facility must conform to all of the requirements of the Contract Documents, and appropriate revised submittals and approvals would be necessary.

These comments should not be construed in any way as intent to limit the Contractor's responsibilities. The absence of a comment with respect to a specific Contract requirement should not be interpreted as a suggestion to change a Contract requirement.

Appendix A

Clean Earth: Waste Profile Form (filled out)

STV Incorporated

FILE No.: 3017079

- ☐ CONFORMS
- ☐ CONFORMS AS NOTED
- ☑ REVISE AS NOTED AND RESUBMIT
- ☐ REJECTED, RESUBMIT
- ☐ REVIEW NOT REQUIRED

BY: ROBERT FIELDS

DATE: 12-3-15

THIS DOCUMENT HAS BEEN REVIEWED FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT ONLY.

This review does not relieve the contractor or any subcontractor of responsibility for full compliance with contract requirements; for correctness of dimensions, clearances, and material quantities; for proper design of details; for proper fabrication and construction techniques; for proper coordination with other trades; and for providing all devices required for safe and satisfactory construction and operation.

CLEANEARTH®

Faster, smarter, greener solutions.®

EXHIBIT A
Material Profile Sheet

Global Job # _____

Sales Rep Schrof

- [x] Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, T 732-541-8909
- [ ] Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, T 301-791-6220
- [ ] Clean Earth of Williamsport, 212 Colvin Road, Williamsport, PA 17701, T 570-494-0200
- [ ] Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, T 215-428-1700
- [ ] Clean Earth of Philadelphia, 3201 South 61st Street, Philadelphia, PA 19153, T 215-724-5520
- [ ] Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, T 302-427-6634
- [ ] Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, T 973-344-4004

A. Waste Generator/Job Site Information

1. Generator Name: NYCSCA
2. Generator Address: 30-30 Thomson Ave
3. Generator Cty/St/Zip: Long Island City, NY 11101
4. Generator Phone: 718.472.8000
5. Generator Contact:
6. Generator Email:
7. Generator County: Queens
8. Job Site Name: PS 52R
9. Job Site Address: 450 Buel Avenue
10. Job Site Cty/St/Zip: Staten Island, NY, 10305
11. Job Site Phone: 718-351-5454
12. Job Site Contact: Mike Fazio
13. Job Site Email: mjmn220@aol.com
14. Job Site County: Staten Island

Billing Information

15. Customer Name: MDF Contracting Corporation
16. Customer Address: 220 Tysens Lane
17. Customer Cty/St/Zip: Staten Island, NY 10306
19. Customer Phone: 718-979-0126
20. Customer Contact: Mike Fazio
21. Customer Email: mjmn220@aol.com

B. Waste Stream Information

1. Name of waste: urban fill
2. State waste code(s) (if applicable):
3. Process generating waste (attache separate sheet, if necessary): construction - excavation of soil for school development
4. Is this waste a soil amendment (i.e., bio-solids, paper pulp sludge, lime neutralized industrialized water sludge, water potable treatment plant sludge)? ☐ Yes ☒ No ☐ N/A
5. Estimated quantity of waste: 1000 ☐ Tons ☐ Gallons ☒ Cubic Yards
6. Term of project: ☐ Recurring ☒ One Time

C. Waste Composition/Characteristics

1. Source of contamination (i.e., UST, AST, leak, spill, non specific): non specific
2. Type of contamination (i.e., diesel, gasoline, waste oil, heating oil, MGP, etc.): non specific
3. Contaminants of concern: see analytical data report
4. Provide a site history detailing past and present land uses, on site storage/process information, and any activities related to contaminants of concern (attach a separate sheet if necessary): Public School
5. Composition of waste (clay, rock, sand, moisture, chemical, constituents, contaminants, etc., should equal 100%): soil 85% %; silt 10% %; % ; debris-rock, brick 5% %
6. Is this site a State or Federal Superfund Site? ☐ Yes ☒ No
7. Is laboratory report being supplied with this profile? ☒ Yes ☐ No
   7a. If yes, you will need to attach a sampling plan description and a diagram of sampling locations that ties to the data. Please refer to the "Site Sampling Diagram" form in your approval package for guidance.
8. Is the waste represented in this waste profile classified as a radioactive material under USEPA 40 CFR 191.12 or other applicable regulatory provisions? ☐ Yes ☒ No
9. Does the waste represented contain any levels of polychlorinated biphenyls (PCBs)? ☐ Yes ☒ No
   9a. If yes, list the level: _____
   9b. If yes, is the waste material TSCA regulated or defined as a PCB remediation waste under TSCA? ☐ Yes ☒ No ☐ N/A
10. Does the waste represented contain herbicides, pesticides, asbestos, insecticides or residues thereof at concentrations that would render it hazardous as defined by 40 CFR 261 or subject to additional state or federal regulations? ☐ Yes ☐ No

Asbestos are not suspected. None tested.

Global Job # _____

Sales Rep Schrof

C. Waste Composition/Characteristics (continued)

11. The waste represented in this profile is generated as a result of the corrective response taken under the Federal Underground Storage Tank Regulation 40 CFR 280. ☐ Yes ☒ No
12. Is the waste a dioxin bearing waste? Dioxin bearing waste not suspected. None tested. ☐ Yes ☐ No
13. Is the waste a treatment residue from a previously listed or characteristic hazardous waste? ☐ Yes ☒ No
14. Is there a nuisance level of odor associated with this waste? ☐ Yes ☒ No
15. Are there any special handling instructions for management of this waste? ☐ Yes ☒ No
16. Have any odor suppressing foams or absorbents been added to the waste? ☐ Yes ☒ No
17. If yes to any of the above questions, please explain (attach an additional sheet if necessary):

_____

_____

D. Generator Certification

1. I certify that the waste represented by this profile is not a listed hazardous waste, nor does it contain a listed hazardous waste, nor does it exhibit any characteristics of a hazardous waste as defined by 40 CFR 261. ☒ Yes ☐ No
2. I certify that this waste profile and all attachments contain true and accurate descriptions of the waste material. ☒ Yes ☐ No
3. I certify that all relevant information in possession of the Generator pertaining to known or suspected hazards with regard to the waste has been disclosed to Clean Earth. ☒ Yes ☐ No
4. I certify that all changes that occur in the characteristics of the waste will be identified by the Generator and disclosed to Clean Earth prior to providing the waste to Clean Earth. ☒ Yes ☐ No
5. I certify that the analytical data attached hereto are derived from testing representative sample(s) as referenced in 40 CFR 261.20 or an equivalent state regulatory provision. ☒ Yes ☐ No ☐ N/A
6. For sites that contain "clean fill," the undersigned certifies that a site investigation was conducted and that the soil was characterized according to the proposed Clean Earth facility(s) acceptance criteria for soil classification as "clean fill" and where applicable in accordance with the Pennsylvania Management of Fill Policy. ☐ Yes ☐ No ☒ N/A
7. The undersigned has determined the non-hazardous status of the said waste is in accordance with 40 CFR 262.11. Should, at any time after delivery, the material accepted by Clean Earth be found to be non-conforming to the information certified in this profile and represented by documentation attached hereto, it becomes the responsibility of the Generator/Agent to remove the waste from the designated Clean Earth facility within five (5) days of notification. Notification is to be verbal followed by written notification, overnight receipted. It is the Generator's/ Agent's responsibility to abide by all Federal, State and Local regulations associated with the removal of their waste. If the waste is not removed within the specified time period, said disposal shall be arranged by a Clean Earth representative and billed to the Generator/Agent at cost plus basis. Furthermore, the Generator/Agent will be responsible for any and all costs for decontamination required by the Clean Earth facility that is related to the Generator's/Agent's material and all liability for such nonconforming waste shall revert to Generator/Agent. ☒ Yes ☐ No

*Certification

Signature: _____ Date: _____

Name (type or print): _____ Company: _____

*If someone other than the Generator is signing this profile or intends to sign any paperwork (which includes, but is not limited to, additional certifications, manifests, etc.) pertaining to this waste profile, authorization from the Generator, on the Generator's letterhead, must be supplied to Clean Earth prior to acceptance of waste material.

E. Clean Earth Waste Approval Decision

1. Treatment Option(s) _____
2. Proposed Treatment Facility(s) _____
3. Supplemental information (special handling, hours of acceptance, etc.): _____

_____

_____

4. Approval decision: ☐ Approved ☐ Denied Approved tonnages: _____

4a. If denied, please indicate the reason in the space provided: _____

_____

5. Approval Signature: _____ Date: _____

6. Facility Manager's Signature: _____ Date: _____

Appendix B

Official Laboratory Report from Phoenix Environmental Laboratories, Inc: Report GBK10399 (dated October 27, 2015)

PHOENIX
Environmental Laboratories, Inc.

Monday, October 26, 2015

Attn: Ariel Czemerinski
AMC Engineering
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753

Project ID: PS 52R
Sample ID#s: BK10399 - BK10403

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

October 26, 2015

SDG I.D.: GBK10399

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

BK10401 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BK10402 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 26, 2015

FOR: Attn: Ariel Czemerinski
AMC Engineering
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/16/15	9:00
Location Code:	AMC-ENG	Received by:	SW	10/19/15	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK10399
Phoenix ID: BK10399

Project ID: PS 52R
Client ID: C1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35		mg/Kg	1	10/20/15	LK	SW6010C
Aluminum	12300	52		mg/Kg	10	10/20/15	LK	SW6010C
Arsenic	5.6	0.7		mg/Kg	1	10/20/15	LK	SW6010C
Barium	80.1	0.35		mg/Kg	1	10/20/15	LK	SW6010C
Beryllium	0.56	0.28		mg/Kg	1	10/20/15	LK	SW6010C
Calcium	4150	5.2		mg/Kg	1	10/20/15	LK	SW6010C
Cadmium	0.86	0.35		mg/Kg	1	10/20/15	LK	SW6010C
Cobalt	14.6	0.35		mg/Kg	1	10/20/15	LK	SW6010C
Chromium	32.0	0.35		mg/Kg	1	10/20/15	LK	SW6010C
Copper	34.1	0.35		mg/kg	1	10/20/15	LK	SW6010C
Iron	19500	52		mg/Kg	10	10/20/15	LK	SW6010C
Mercury	0.13	0.03		mg/Kg	1	10/20/15	RS	SW7471B
Potassium	1240	5.2		mg/Kg	1	10/20/15	LK	SW6010C
Magnesium	12700	52		mg/Kg	10	10/20/15	LK	SW6010C
Manganese	416	3.5		mg/Kg	10	10/20/15	LK	SW6010C
Sodium	148	5.2		mg/Kg	1	10/20/15	LK	SW6010C
Nickel	204	3.5		mg/Kg	10	10/20/15	LK	SW6010C
Lead	85.9	0.35		mg/Kg	1	10/20/15	LK	SW6010C
Antimony	< 3.5	3.5		mg/Kg	1	10/20/15	LK	SW6010C
Selenium	< 1.4	1.4		mg/Kg	1	10/20/15	LK	SW6010C
TCLP Silver	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Arsenic	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Barium	0.50	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Cadmium	< 0.050	0.050		mg/L	1	10/20/15	LK	SW6010C
TCLP Chromium	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Mercury	< 0.0002	0.0002		mg/L	1	10/21/15	RS	SW7470A
TCLP Lead	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Selenium	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C

Project ID: PS 52R
Client ID: C1

Phoenix I.D.: BK10399

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.1	3.1		mg/Kg	1	10/20/15	LK	SW6010C	
TCLP Metals Digestion	Completed					10/20/15	I/I	SW3005A	
Vanadium	29.3	0.35		mg/Kg	1	10/20/15	LK	SW6010C	
Zinc	108	0.35		mg/Kg	1	10/20/15	LK	SW6010C	
Percent Solid	85			%		10/19/15	I	SW846-%Solid	
Corrosivity	Negative			Pos/Neg	1	10/19/15	DH/KDB	SW846-Corr	1
Flash Point	>200	200		Degree F	1	10/20/15	Y	SW1010A	
Ignitability	Passed	140		degree F	1	10/20/15	Y	SW846-Ignit	1
pH - Soil	7.38	0.10		pH Units	1	10/19/15 23:30	DH/KDB	SW9045	1
Reactivity Cyanide	< 5.9	5.9		mg/Kg	1	10/20/15	BS/GD	SW846-React	1
Reactivity Sulfide	< 20	20		mg/Kg	1	10/20/15	BS/GD	SW-7.3	1
Reactivity	Negative			Pos/Neg	1	10/20/15	BS/GD	SW846-React	1
Total Sulfide	< 12	12		mg/Kg	1	10/22/15	GD	SW9030/9034	
Total Cyanide (SW9010C Distill.)	< 0.53	0.53		mg/Kg	1	10/19/15	O/GD	SW9012B	
Soil Extraction for PCB	Completed					10/21/15	BC	SW3545A	
Soil Extraction for Pesticide	Completed					10/19/15	BC/V	SW3545A	
Soil Extraction for SVOA	Completed					10/19/15	JJ/CKV	SW3545A	
Mercury Digestion	Completed					10/20/15	I/I	SW7471B	
Paint Filter Test	Passed			PASS/FAIL		10/19/15	J	SW9095B	
Soil Extraction for Herbicide	Completed					10/19/15	QQ/D	SW8151A	
TCLP Digestion Mercury	Completed					10/21/15	D/D	SW7470A	
TCLP Extraction for Metals	Completed					10/19/15	I	SW1311	
Total Metals Digest	Completed					10/19/15	G/AG	SW3050B	
Chlorinated Herbicides									
2,4,5-T	ND	49		ug/Kg	10	10/21/15	BB	SW8151A	
2,4,5-TP (Silvex)	ND	49		ug/Kg	10	10/21/15	BB	SW8151A	
2,4-D	ND	49		ug/Kg	10	10/21/15	BB	SW8151A	
2,4-DB	ND	490		ug/Kg	10	10/21/15	BB	SW8151A	
Dalapon	ND	49		ug/Kg	10	10/21/15	BB	SW8151A	
Dicamba	ND	98		ug/Kg	10	10/21/15	BB	SW8151A	
Dichloroprop	ND	49		ug/Kg	10	10/21/15	BB	SW8151A	
Dinoseb	ND	98		ug/Kg	10	10/21/15	BB	SW8151A	
QA/QC Surrogates									
% DCAA	52			%	10	10/21/15	BB	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1221	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1232	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1242	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1248	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1254	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1260	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1262	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1268	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
QA/QC Surrogates									
% DCBP	87			%	2	10/20/15	KCA	30 - 150 %	
% TCMX	83			%	2	10/20/15	KCA	30 - 150 %	

Project ID: PS 52R
Client ID: C1

Phoenix I.D.: BK10399

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Pesticides - Soil								
4,4' -DDD	ND	2.3		ug/Kg	2	10/23/15	KCA	SW8081B
4,4' -DDE	8.2	2.3		ug/Kg	2	10/23/15	KCA	SW8081B
4,4' -DDT	19	2.3		ug/Kg	2	10/23/15	KCA	SW8081B
a-BHC	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
a-Chlordane	19	3.8		ug/Kg	2	10/23/15	KCA	SW8081B
Aldrin	ND	3.8		ug/Kg	2	10/23/15	KCA	SW8081B
b-BHC	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Chlordane	190	38		ug/Kg	2	10/23/15	KCA	SW8081B
d-BHC	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Dieldrin	ND	3.8		ug/Kg	2	10/23/15	KCA	SW8081B
Endosulfan I	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endosulfan II	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endosulfan sulfate	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endrin	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endrin aldehyde	17	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endrin ketone	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
g-BHC	ND	1.5		ug/Kg	2	10/23/15	KCA	SW8081B
g-Chlordane	33	3.8		ug/Kg	2	10/23/15	KCA	SW8081B
Heptachlor	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Heptachlor epoxide	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Methoxychlor	ND	38		ug/Kg	2	10/23/15	KCA	SW8081B
Toxaphene	ND	150		ug/Kg	2	10/23/15	KCA	SW8081B
QA/QC Surrogates								
% DCBP	93			%	2	10/23/15	KCA	30 - 150 %
% TCMX	61			%	2	10/23/15	KCA	30 - 150 %
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
1,2-Dichlorobenzene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	390		ug/Kg	1	10/20/15	DD	SW8270D
1,3-Dichlorobenzene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
1,4-Dichlorobenzene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2,4-Dichlorophenol	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2,4-Dimethylphenol	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2,4-Dinitrophenol	ND	630		ug/Kg	1	10/20/15	DD	SW8270D
2,4-Dinitrotoluene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2,6-Dinitrotoluene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2-Chloronaphthalene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2-Chlorophenol	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2-Methylnaphthalene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2-Nitroaniline	ND	630		ug/Kg	1	10/20/15	DD	SW8270D
2-Nitrophenol	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	390		ug/Kg	1	10/20/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	270		ug/Kg	1	10/20/15	DD	SW8270D

Project ID: PS 52R
Client ID: C1

Phoenix I.D.: BK10399

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
3-Nitroaniline	ND	630		ug/Kg	1	10/20/15	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1100		ug/Kg	1	10/20/15	DD	SW8270D	
4-Bromophenyl phenyl ether	ND	390		ug/Kg	1	10/20/15	DD	SW8270D	
4-Chloro-3-methylphenol	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
4-Chloroaniline	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
4-Nitroaniline	ND	630		ug/Kg	1	10/20/15	DD	SW8270D	
4-Nitrophenol	ND	1100		ug/Kg	1	10/20/15	DD	SW8270D	
Acenaphthene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Acenaphthylene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Acetophenone	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Aniline	ND	1100		ug/Kg	1	10/20/15	DD	SW8270D	
Anthracene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Benz(a)anthracene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Benzidine	ND	470		ug/Kg	1	10/20/15	DD	SW8270D	
Benzo(a)pyrene	ND	200		ug/Kg	1	10/20/15	DD	SW8270D	
Benzo(b)fluoranthene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Benzo(ghi)perylene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Benzo(k)fluoranthene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Benzoic acid	ND	1100		ug/Kg	1	10/20/15	DD	SW8270D	1
Benzyl butyl phthalate	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	390		ug/Kg	1	10/20/15	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	630	270		ug/Kg	1	10/20/15	DD	SW8270D	
Carbazole	ND	590		ug/Kg	1	10/20/15	DD	SW8270D	
Chrysene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Dibenz(a,h)anthracene	ND	200		ug/Kg	1	10/20/15	DD	SW8270D	
Dibenzofuran	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Diethyl phthalate	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Dimethylphthalate	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Di-n-butylphthalate	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Di-n-octylphthalate	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Fluoranthene	300	270		ug/Kg	1	10/20/15	DD	SW8270D	
Fluorene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Hexachlorobenzene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Hexachlorobutadiene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Hexachlorocyclopentadiene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Hexachloroethane	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Isophorone	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Naphthalene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Nitrobenzene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
N-Nitrosodimethylamine	ND	390		ug/Kg	1	10/20/15	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	200		ug/Kg	1	10/20/15	DD	SW8270D	
N-Nitrosodiphenylamine	ND	390		ug/Kg	1	10/20/15	DD	SW8270D	
Pentachloronitrobenzene	ND	390		ug/Kg	1	10/20/15	DD	SW8270D	
Pentachlorophenol	ND	390		ug/Kg	1	10/20/15	DD	SW8270D	
Phenanthrene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	

Project ID: PS 52R
Client ID: C1

Phoenix I.D.: BK10399

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
Pyrene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
Pyridine	ND	390		ug/Kg	1	10/20/15	DD	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	77			%	1	10/20/15	DD	30 - 130 %
% 2-Fluorobiphenyl	67			%	1	10/20/15	DD	30 - 130 %
% 2-Fluorophenol	77			%	1	10/20/15	DD	30 - 130 %
% Nitrobenzene-d5	73			%	1	10/20/15	DD	30 - 130 %
% Phenol-d5	86			%	1	10/20/15	DD	30 - 130 %
% Terphenyl-d14	74			%	1	10/20/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Corrosivity is based solely on the pH analysis performed above.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide.This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 26, 2015
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 26, 2015

FOR: Attn: Ariel Czemerinski
AMC Engineering
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/16/15	9:00
Location Code:	AMC-ENG	Received by:	SW	10/19/15	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK10399
Phoenix ID: BK10400

Project ID: PS 52R
Client ID: C2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36		mg/Kg	1	10/20/15	LK	SW6010C
Aluminum	12800	54		mg/Kg	10	10/20/15	LK	SW6010C
Arsenic	5.7	0.7		mg/Kg	1	10/20/15	LK	SW6010C
Barium	79.7	0.36		mg/Kg	1	10/20/15	LK	SW6010C
Beryllium	0.61	0.29		mg/Kg	1	10/20/15	LK	SW6010C
Calcium	4150	5.4		mg/Kg	1	10/20/15	LK	SW6010C
Cadmium	0.73	0.36		mg/Kg	1	10/20/15	LK	SW6010C
Cobalt	13.9	0.36		mg/Kg	1	10/20/15	LK	SW6010C
Chromium	33.7	0.36		mg/Kg	1	10/20/15	LK	SW6010C
Copper	33.6	0.36		mg/kg	1	10/20/15	LK	SW6010C
Iron	21500	54		mg/Kg	10	10/20/15	LK	SW6010C
Mercury	0.13	0.03		mg/Kg	1	10/20/15	RS	SW7471B
Potassium	1530	5.4		mg/Kg	1	10/20/15	LK	SW6010C
Magnesium	12500	54		mg/Kg	10	10/20/15	LK	SW6010C
Manganese	409	3.6		mg/Kg	10	10/20/15	LK	SW6010C
Sodium	205	5.4		mg/Kg	1	10/20/15	LK	SW6010C
Nickel	167	3.6		mg/Kg	10	10/20/15	LK	SW6010C
Lead	63.4	0.36		mg/Kg	1	10/20/15	LK	SW6010C
Antimony	< 3.6	3.6		mg/Kg	1	10/20/15	LK	SW6010C
Selenium	< 1.4	1.4		mg/Kg	1	10/20/15	LK	SW6010C
TCLP Silver	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Arsenic	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Barium	0.49	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Cadmium	< 0.050	0.050		mg/L	1	10/20/15	LK	SW6010C
TCLP Chromium	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Mercury	< 0.0002	0.0002		mg/L	1	10/21/15	RS	SW7470A
TCLP Lead	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Selenium	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C

Project ID: PS 52R
Client ID: C2

Phoenix I.D.: BK10400

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.2	3.2		mg/Kg	1	10/20/15	LK	SW6010C	
TCLP Metals Digestion	Completed					10/20/15	I/I	SW3005A	
Vanadium	34.5	0.36		mg/Kg	1	10/20/15	LK	SW6010C	
Zinc	92.3	0.36		mg/Kg	1	10/20/15	LK	SW6010C	
Percent Solid	87			%		10/19/15	I	SW846-%Solid	
Corrosivity	Negative			Pos/Neg	1	10/19/15	DH/KDB	SW846-Corr	1
Flash Point	>200	200		Degree F	1	10/20/15	Y	SW1010A	
Ignitability	Passed	140		degree F	1	10/20/15	Y	SW846-Ignit	1
pH - Soil	7.89	0.10		pH Units	1	10/19/15 23:30	DH/KDB	SW9045	1
Reactivity Cyanide	< 5.7	5.7		mg/Kg	1	10/20/15	BS/GD	SW846-React	1
Reactivity Sulfide	< 20	20		mg/Kg	1	10/20/15	BS/GD	SW-7.3	1
Reactivity	Negative			Pos/Neg	1	10/20/15	BS/GD	SW846-React	1
Total Sulfide	< 11	11		mg/Kg	1	10/22/15	GD	SW9030/9034	
Total Cyanide (SW9010C Distill.)	< 0.48	0.48		mg/Kg	1	10/19/15	O/GD	SW9012B	
Soil Extraction for PCB	Completed					10/21/15	BC	SW3545A	
Soil Extraction for Pesticide	Completed					10/19/15	BC/V	SW3545A	
Soil Extraction for SVOA	Completed					10/19/15	JJ/CKV	SW3545A	
Mercury Digestion	Completed					10/20/15	I/I	SW7471B	
Soil Extraction for Herbicide	Completed					10/19/15	QQ/D	SW8151A	
TCLP Digestion Mercury	Completed					10/21/15	D/D	SW7470A	
TCLP Extraction for Metals	Completed					10/19/15	I	SW1311	
Total Metals Digest	Completed					10/19/15	G/AG	SW3050B	
Chlorinated Herbicides									
2,4,5-T	ND	48		ug/Kg	10	10/21/15	BB	SW8151A	
2,4,5-TP (Silvex)	ND	48		ug/Kg	10	10/21/15	BB	SW8151A	
2,4-D	ND	48		ug/Kg	10	10/21/15	BB	SW8151A	
2,4-DB	ND	480		ug/Kg	10	10/21/15	BB	SW8151A	
Dalapon	ND	48		ug/Kg	10	10/21/15	BB	SW8151A	
Dicamba	ND	95		ug/Kg	10	10/21/15	BB	SW8151A	
Dichloroprop	ND	48		ug/Kg	10	10/21/15	BB	SW8151A	
Dinoseb	ND	95		ug/Kg	10	10/21/15	BB	SW8151A	
QA/QC Surrogates									
% DCAA	60			%	10	10/21/15	BB	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1221	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1232	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1242	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1248	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1254	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1260	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1262	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1268	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
QA/QC Surrogates									
% DCBP	101			%	2	10/20/15	KCA	30 - 150 %	
% TCMX	85			%	2	10/20/15	KCA	30 - 150 %	

Project ID: PS 52R
Client ID: C2

Phoenix I.D.: BK10400

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Pesticides - Soil								
4,4' -DDD	ND	2.3		ug/Kg	2	10/23/15	KCA	SW8081B
4,4' -DDE	9.0	2.3		ug/Kg	2	10/23/15	KCA	SW8081B
4,4' -DDT	16	2.3		ug/Kg	2	10/23/15	KCA	SW8081B
a-BHC	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
a-Chlordane	8.9	3.8		ug/Kg	2	10/23/15	KCA	SW8081B
Aldrin	ND	3.8		ug/Kg	2	10/23/15	KCA	SW8081B
b-BHC	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Chlordane	75	38		ug/Kg	2	10/23/15	KCA	SW8081B
d-BHC	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Dieldrin	ND	3.8		ug/Kg	2	10/23/15	KCA	SW8081B
Endosulfan I	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endosulfan II	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endosulfan sulfate	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endrin	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endrin aldehyde	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endrin ketone	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
g-BHC	ND	1.5		ug/Kg	2	10/23/15	KCA	SW8081B
g-Chlordane	15	3.8		ug/Kg	2	10/23/15	KCA	SW8081B
Heptachlor	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Heptachlor epoxide	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Methoxychlor	ND	38		ug/Kg	2	10/23/15	KCA	SW8081B
Toxaphene	ND	150		ug/Kg	2	10/23/15	KCA	SW8081B
QA/QC Surrogates								
% DCBP	90			%	2	10/23/15	KCA	30 - 150 %
% TCMX	71			%	2	10/23/15	KCA	30 - 150 %
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
1,2-Dichlorobenzene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	380		ug/Kg	1	10/20/15	DD	SW8270D
1,3-Dichlorobenzene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
1,4-Dichlorobenzene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2,4-Dichlorophenol	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2,4-Dimethylphenol	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2,4-Dinitrophenol	ND	600		ug/Kg	1	10/20/15	DD	SW8270D
2,4-Dinitrotoluene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2,6-Dinitrotoluene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2-Chloronaphthalene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2-Chlorophenol	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2-Methylnaphthalene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2-Nitroaniline	ND	600		ug/Kg	1	10/20/15	DD	SW8270D
2-Nitrophenol	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380		ug/Kg	1	10/20/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	260		ug/Kg	1	10/20/15	DD	SW8270D

Project ID: PS 52R
Client ID: C2

Phoenix I.D.: BK10400

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
3-Nitroaniline	ND	600		ug/Kg	1	10/20/15	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1100		ug/Kg	1	10/20/15	DD	SW8270D	
4-Bromophenyl phenyl ether	ND	380		ug/Kg	1	10/20/15	DD	SW8270D	
4-Chloro-3-methylphenol	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
4-Chloroaniline	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
4-Nitroaniline	ND	600		ug/Kg	1	10/20/15	DD	SW8270D	
4-Nitrophenol	ND	1100		ug/Kg	1	10/20/15	DD	SW8270D	
Acenaphthene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Acenaphthylene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Acetophenone	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Aniline	ND	1100		ug/Kg	1	10/20/15	DD	SW8270D	
Anthracene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Benz(a)anthracene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Benzidine	ND	450		ug/Kg	1	10/20/15	DD	SW8270D	
Benzo(a)pyrene	ND	200		ug/Kg	1	10/20/15	DD	SW8270D	
Benzo(b)fluoranthene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Benzo(ghi)perylene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Benzo(k)fluoranthene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Benzoic acid	ND	1100		ug/Kg	1	10/20/15	DD	SW8270D	1
Benzyl butyl phthalate	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	380		ug/Kg	1	10/20/15	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	520	260		ug/Kg	1	10/20/15	DD	SW8270D	
Carbazole	ND	560		ug/Kg	1	10/20/15	DD	SW8270D	
Chrysene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Dibenz(a,h)anthracene	ND	200		ug/Kg	1	10/20/15	DD	SW8270D	
Dibenzofuran	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Diethyl phthalate	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Dimethylphthalate	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Di-n-butylphthalate	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Di-n-octylphthalate	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Fluoranthene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Fluorene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Hexachlorobenzene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Hexachlorobutadiene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Hexachlorocyclopentadiene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Hexachloroethane	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Isophorone	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Naphthalene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Nitrobenzene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
N-Nitrosodimethylamine	ND	380		ug/Kg	1	10/20/15	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	200		ug/Kg	1	10/20/15	DD	SW8270D	
N-Nitrosodiphenylamine	ND	380		ug/Kg	1	10/20/15	DD	SW8270D	
Pentachloronitrobenzene	ND	380		ug/Kg	1	10/20/15	DD	SW8270D	
Pentachlorophenol	ND	380		ug/Kg	1	10/20/15	DD	SW8270D	
Phenanthrene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	

Project ID: PS 52R
Client ID: C2

Phoenix I.D.: BK10400

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
Pyrene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
Pyridine	ND	380		ug/Kg	1	10/20/15	DD	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	79			%	1	10/20/15	DD	30 - 130 %
% 2-Fluorobiphenyl	73			%	1	10/20/15	DD	30 - 130 %
% 2-Fluorophenol	79			%	1	10/20/15	DD	30 - 130 %
% Nitrobenzene-d5	73			%	1	10/20/15	DD	30 - 130 %
% Phenol-d5	85			%	1	10/20/15	DD	30 - 130 %
% Terphenyl-d14	71			%	1	10/20/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Corrosivity is based solely on the pH analysis performed above.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide.This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 26, 2015
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 26, 2015

FOR: Attn: Ariel Czemerinski
AMC Engineering
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/16/15	9:00
Location Code:	AMC-ENG	Received by:	SW	10/19/15	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK10399
Phoenix ID: BK10401

Project ID: PS 52R
Client ID: GR1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92			%		10/19/15	I	SW846-%Solid
Volatiles								
1,1,1-Trichloroethane	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
1,1-Dichloroethane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
1,1-Dichloroethene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dibromoethane	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dichloroethane	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dichloropropane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
2-Hexanone	ND	27	5.4	ug/Kg	1	10/20/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	5.4	ug/Kg	1	10/20/15	JLI	SW8260C
Acetone	ND	50	5.4	ug/Kg	1	10/20/15	JLI	SW8260C
Benzene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Bromochloromethane	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Bromodichloromethane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Bromoform	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Bromomethane	ND	5.4	2.2	ug/Kg	1	10/20/15	JLI	SW8260C
Carbon Disulfide	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Carbon tetrachloride	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Chlorobenzene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C

Project ID: PS 52R
Client ID: GR1

Phoenix I.D.: BK10401

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Chloroethane	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Chloroform	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Chloromethane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Cyclohexane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Dibromochloromethane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Dichlorodifluoromethane	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Ethylbenzene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Isopropylbenzene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
m&p-Xylene	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Methyl ethyl ketone	ND	32	5.4	ug/Kg	1	10/20/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Methylacetate	ND	5.4	2.7	ug/Kg	1	10/20/15	JLI	SW8260C
Methylcyclohexane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Methylene chloride	ND	5.4	5.4	ug/Kg	1	10/20/15	JLI	SW8260C
o-Xylene	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Styrene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Tetrachloroethene	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Toluene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Total Xylenes	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Trichloroethene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Trichlorofluoromethane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Vinyl chloride	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	98			%	1	10/20/15	JLI	70 - 130 %
% Bromofluorobenzene	87			%	1	10/20/15	JLI	70 - 130 %
% Dibromofluoromethane	102			%	1	10/20/15	JLI	70 - 130 %
% Toluene-d8	95			%	1	10/20/15	JLI	70 - 130 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	22		ug/Kg	1	10/20/15	JLI	SW8260C
Acrolein	ND	22		ug/Kg	1	10/20/15	JLI	SW8260C
Acrylonitrile	ND	22		ug/Kg	1	10/20/15	JLI	SW8260C
Tert-butyl alcohol	ND	110		ug/Kg	1	10/20/15	JLI	SW8260C
Volatile Library Search Top 10	Completed					10/20/15	JLI	

Project ID: PS 52R
Client ID: GR1

Phoenix I.D.: BK10401

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 26, 2015
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 26, 2015

FOR: Attn: Ariel Czemerinski
AMC Engineering
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/16/15	9:00
Location Code:	AMC-ENG	Received by:	SW	10/19/15	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK10399
Phoenix ID: BK10402

Project ID: PS 52R
Client ID: GR2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86			%		10/19/15	I	SW846-%Solid
Volatiles								
1,1,1-Trichloroethane	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
1,1-Dichloroethane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
1,1-Dichloroethene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dibromoethane	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dichloroethane	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dichloropropane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
2-Hexanone	ND	29	5.9	ug/Kg	1	10/20/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	5.9	ug/Kg	1	10/20/15	JLI	SW8260C
Acetone	ND	50	5.9	ug/Kg	1	10/20/15	JLI	SW8260C
Benzene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Bromochloromethane	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Bromodichloromethane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Bromoform	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Bromomethane	ND	5.9	2.3	ug/Kg	1	10/20/15	JLI	SW8260C
Carbon Disulfide	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Carbon tetrachloride	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Chlorobenzene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C

Project ID: PS 52R
Client ID: GR2

Phoenix I.D.: BK10402

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Chloroethane	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Chloroform	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Chloromethane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Cyclohexane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Dibromochloromethane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Dichlorodifluoromethane	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Ethylbenzene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Isopropylbenzene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
m&p-Xylene	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Methyl ethyl ketone	ND	35	5.9	ug/Kg	1	10/20/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Methylacetate	ND	5.9	2.9	ug/Kg	1	10/20/15	JLI	SW8260C
Methylcyclohexane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Methylene chloride	ND	5.9	5.9	ug/Kg	1	10/20/15	JLI	SW8260C
o-Xylene	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Styrene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Tetrachloroethene	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Toluene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Total Xylenes	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Trichloroethene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Trichlorofluoromethane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Vinyl chloride	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	97			%	1	10/20/15	JLI	70 - 130 %
% Bromofluorobenzene	88			%	1	10/20/15	JLI	70 - 130 %
% Dibromofluoromethane	97			%	1	10/20/15	JLI	70 - 130 %
% Toluene-d8	98			%	1	10/20/15	JLI	70 - 130 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	23		ug/Kg	1	10/20/15	JLI	SW8260C
Acrolein	ND	23		ug/Kg	1	10/20/15	JLI	SW8260C
Acrylonitrile	ND	23		ug/Kg	1	10/20/15	JLI	SW8260C
Tert-butyl alcohol	ND	120		ug/Kg	1	10/20/15	JLI	SW8260C
Volatile Library Search Top 10	Completed					10/20/15	JLI	

Project ID: PS 52R
Client ID: GR2

Phoenix I.D.: BK10402

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 26, 2015
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 26, 2015

FOR: Attn: Ariel Czemerinski
AMC Engineering
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/16/15	9:00
Location Code:	AMC-ENG	Received by:	SW	10/19/15	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK10399
Phoenix ID: BK10403

Project ID: PS 52R
Client ID: TPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		10/19/15	I	SW846-%Solid
Extraction of TPH SM	Completed				10/19/15	CC/CK	SW3545A
TPH (C10-C28) Extractable Products							
Diesel Range Organics (C10-C28)	76	58	mg/Kg	1	10/20/15	JRB	8015D DRO
QA/QC Surrogates							
% n-Pentacosane	86		%	1	10/20/15	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The TPH (C10-C28) is quantitated using an alkane standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 26, 2015
Reviewed and Released by: Bobbi Aloisa, Vice President

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
GR1

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK10399

Matrix:(soil/water) SOIL Lab Sample ID: BK10401

Sample wt/vol: 5.04 (g/mL) g Lab File ID: 1019L43.D

Level: (low/med) PPL Date Received: 10/19/15

% Moisture: not dec. 8 Date Analyzed: 10/20/15

GC Column: rtx-vms ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
GR2

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK10399

Matrix:(soil/water) SOIL Lab Sample ID: BK10402

Sample wt/vol: 4.94 (g/mL) g Lab File ID: 1019L42.D

Level: (low/med) PPL Date Received: 10/19/15

% Moisture: not dec. 14 Date Analyzed: 10/20/15

GC Column: rtx-vms ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

October 26, 2015

QA/QC Data

SDG I.D.: GBK10399

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 324090 (mg/L), QC Sample No: BK10148 (BK10399, BK10400)														
ICP Metals - TCLP Extraction														
Arsenic	BRL	0.10	<0.10	<0.10	NC	108	108	0.0	95.5	98.8	3.4	75 - 125	20	
Barium	BRL	0.10	0.17	0.15	NC	101	99.8	1.2	95.1	98.6	3.6	75 - 125	20	
Cadmium	BRL	0.050	<0.050	<0.050	NC	100	101	1.0	91.8	94.2	2.6	75 - 125	20	
Chromium	BRL	0.10	<0.10	<0.10	NC	103	104	1.0	94.5	98.0	3.6	75 - 125	20	
Lead	BRL	0.10	0.02	<0.10	NC	104	105	1.0	93.2	97.1	4.1	75 - 125	20	
Selenium	BRL	0.10	<0.10	<0.10	NC	113	113	0.0	96.0	100	4.1	75 - 125	20	
Silver	BRL	0.10	<0.10	<0.10	NC	113	113	0.0	96.2	100	3.9	75 - 125	20	
QA/QC Batch 324034 (mg/kg), QC Sample No: BK10389 (BK10399, BK10400)														
ICP Metals - Soil														
Aluminum	BRL	4.9	9100	9450	3.80	91.6	93.2	1.7	NC	NC	NC	75 - 125	30	
Antimony	BRL	3.3	<1.8	<3.5	NC	94.2	98.5	4.5	77.2	76.7	0.6	75 - 125	30	
Arsenic	BRL	0.66	3.9	3.71	5.00	89.5	91.3	2.0	85.4	85.7	0.4	75 - 125	30	
Barium	BRL	0.33	72.3	114	44.8	93.4	95.6	2.3	97.6	110	11.9	75 - 125	30	r
Beryllium	BRL	0.26	0.45	0.47	NC	91.2	92.4	1.3	89.7	91.0	1.4	75 - 125	30	
Cadmium	BRL	0.33	0.23	0.23	NC	85.9	87.4	1.7	86.1	85.4	0.8	75 - 125	30	
Calcium	BRL	4.9	1480	4210	96.0	93.8	94.5	0.7	NC	NC	NC	75 - 125	30	r
Chromium	BRL	0.33	20.5	21.0	2.40	89.4	91.4	2.2	94.3	92.7	1.7	75 - 125	30	
Cobalt	BRL	0.33	7.44	7.29	2.00	89.8	92.6	3.1	90.4	90.4	0.0	75 - 125	30	
Copper	BRL	0.33	27.5	25.9	6.00	93.8	94.6	0.8	101	102	1.0	75 - 125	30	
Iron	BRL	4.9	19600	18800	4.20	92.9	91.8	1.2	NC	NC	NC	75 - 125	30	
Lead	BRL	0.33	118	262	75.8	89.7	92.5	3.1	85.3	87.7	2.8	75 - 125	30	r
Magnesium	BRL	4.9	1750	1800	2.80	90.4	95.1	5.1	NC	NC	NC	75 - 125	30	
Manganese	BRL	0.33	265	293	10.0	91.4	94.1	2.9	>130	>130	NC	75 - 125	30	m
Nickel	BRL	0.33	12.8	12.7	0.80	89.4	92.7	3.6	90.2	89.2	1.1	75 - 125	30	
Potassium	BRL	4.9	1130	1170	3.50	99.9	99.0	0.9	>130	>130	NC	75 - 125	30	m
Selenium	BRL	1.3	<1.4	<1.4	NC	88.5	90.9	2.7	74.5	75.1	0.8	75 - 125	30	
Silver	BRL	0.33	<0.36	<0.35	NC	92.8	96.0	3.4	93.1	93.3	0.2	75 - 125	30	
Sodium	BRL	4.9	94	147	44.0	96.4	95.8	0.6	>130	>130	NC	75 - 125	30	m,r
Thallium	BRL	3.0	<1.4	<3.2	NC	88.4	92.0	4.0	91.3	91.0	0.3	75 - 125	30	
Vanadium	BRL	0.33	28.2	28.8	2.10	90.0	92.6	2.8	94.8	92.2	2.8	75 - 125	30	
Zinc	BRL	0.33	52.8	74.9	34.6	91.3	94.9	3.9	93.1	94.7	1.7	75 - 125	30	r
QA/QC Batch 324088 (mg/kg), QC Sample No: BK10534 (BK10399, BK10400)														
Mercury - Soil	BRL	0.06	<0.03	<0.03	NC	97.3	95.5	1.9	104	101	2.9	70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 324228 (mg/L), QC Sample No: BK11139 (BK10399, BK10400)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	108	106	1.9	100	98.0	2.0	70 - 130	20	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														

QA/QC Data

SDG I.D.: GBK10399

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

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NY # 11301

QA/QC Report

October 26, 2015

QA/QC Data

SDG I.D.: GBK10399

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 324091 (PH), QC Sample No: BK10148 (BK10399, BK10400)													
pH - Soil			4.85	4.90	1.00	99.8						85 - 115	20
QA/QC Batch 324086 (Degree F), QC Sample No: BK10172 (BK10399, BK10400)													
Flash Point			>200	>200	NC	100						85 - 115	30
QA/QC Batch 324064 (mg/Kg), QC Sample No: BK10389 50X (BK10399, BK10400)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.59	<0.49	NC	99.2			97.5			85 - 115	30
QA/QC Batch 324085 (mg/Kg), QC Sample No: BK10391 5X (BK10399, BK10400)													
Reactivity Cyanide	BRL	0.05	<5.7	<5.7	NC	98.8						85 - 115	30
QA/QC Batch 324377 (mg/Kg), QC Sample No: BK10399 (BK10399, BK10400)													
Total Sulfide	BRL	10	<12	<12	NC	102						85 - 115	30

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QA/QC Report

October 26, 2015

QA/QC Data

SDG I.D.: GBK10399

QA/QC Batch 323901 (ug/kg), QC Sample No: BK09928 (BK10399, BK10400)

Semivolatiles - Solid

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4,5-Tetrachlorobenzene	ND	230	63	66	4.7	65	66	1.5	30 - 130	30	
1,2,4-Trichlorobenzene	ND	230	61	64	4.8	62	65	4.7	30 - 130	30	
1,2-Dichlorobenzene	ND	180	55	61	10.3	55	60	8.7	30 - 130	30	
1,2-Diphenylhydrazine	ND	230	70	71	1.4	67	70	4.4	30 - 130	30	
1,3-Dichlorobenzene	ND	230	53	59	10.7	52	56	7.4	30 - 130	30	
1,4-Dichlorobenzene	ND	230	55	60	8.7	53	58	9.0	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	76	78	2.6	72	79	9.3	30 - 130	30	
2,4,6-Trichlorophenol	ND	130	75	74	1.3	71	76	6.8	30 - 130	30	
2,4-Dichlorophenol	ND	130	69	69	0.0	69	72	4.3	30 - 130	30	
2,4-Dimethylphenol	ND	230	65	66	1.5	69	72	4.3	30 - 130	30	
2,4-Dinitrophenol	ND	230	21	13	47.1	28	15	60.5	30 - 130	30	l,m,r
2,4-Dinitrotoluene	ND	130	73	79	7.9	71	75	5.5	30 - 130	30	
2,6-Dinitrotoluene	ND	130	74	77	4.0	74	76	2.7	30 - 130	30	
2-Chloronaphthalene	ND	230	69	70	1.4	68	73	7.1	30 - 130	30	
2-Chlorophenol	ND	230	67	70	4.4	64	72	11.8	30 - 130	30	
2-Methylnaphthalene	ND	230	68	70	2.9	70	74	5.6	30 - 130	30	
2-Methylphenol (o-cresol)	ND	230	68	68	0.0	67	71	5.8	30 - 130	30	
2-Nitroaniline	ND	330	75	80	6.5	70	76	8.2	30 - 130	30	
2-Nitrophenol	ND	230	62	65	4.7	61	61	0.0	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	230	73	74	1.4	71	77	8.1	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	68	70	2.9	47	52	10.1	30 - 130	30	
3-Nitroaniline	ND	330	72	77	6.7	67	69	2.9	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	230	41	28	37.7	33	21	44.4	30 - 130	30	l,m,r
4-Bromophenyl phenyl ether	ND	230	75	75	0.0	66	72	8.7	30 - 130	30	
4-Chloro-3-methylphenol	ND	230	74	76	2.7	76	79	3.9	30 - 130	30	
4-Chloroaniline	ND	230	68	71	4.3	54	51	5.7	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	230	74	73	1.4	70	73	4.2	30 - 130	30	
4-Nitroaniline	ND	230	77	79	2.6	74	83	11.5	30 - 130	30	
4-Nitrophenol	ND	230	80	84	4.9	74	80	7.8	30 - 130	30	
Acenaphthene	ND	230	70	71	1.4	70	76	8.2	30 - 130	30	
Acenaphthylene	ND	130	66	66	0.0	65	71	8.8	30 - 130	30	
Acetophenone	ND	230	63	67	6.2	62	66	6.3	30 - 130	30	
Aniline	ND	330	61	67	9.4	44	46	4.4	30 - 130	30	
Anthracene	ND	230	76	77	1.3	72	78	8.0	30 - 130	30	
Benz(a)anthracene	ND	230	77	81	5.1	75	81	7.7	30 - 130	30	
Benzidine	ND	330	40	42	4.9	<10	<10	NC	30 - 130	30	m
Benzo(a)pyrene	ND	130	80	82	2.5	69	75	8.3	30 - 130	30	
Benzo(b)fluoranthene	ND	160	79	83	4.9	74	82	10.3	30 - 130	30	
Benzo(ghi)perylene	ND	230	81	83	2.4	51	62	19.5	30 - 130	30	
Benzo(k)fluoranthene	ND	230	82	84	2.4	70	76	8.2	30 - 130	30	
Benzoic Acid	ND	330	<10	<10	NC	64	61	4.8	30 - 130	30	l

QA/QC Data

SDG I.D.: GBK10399

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzyl butyl phthalate	ND	230	82	86	4.8	78	83	6.2	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	230	69	70	1.4	66	70	5.9	30 - 130	30	
Bis(2-chloroethyl)ether	ND	130	56	60	6.9	67	67	0.0	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	230	58	63	8.3	58	64	9.8	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	230	80	84	4.9	79	85	7.3	30 - 130	30	
Carbazole	ND	330	76	79	3.9	74	80	7.8	30 - 130	30	
Chrysene	ND	230	81	85	4.8	73	80	9.2	30 - 130	30	
Dibenz(a,h)anthracene	ND	130	79	82	3.7	54	65	18.5	30 - 130	30	
Dibenzofuran	ND	230	72	72	0.0	70	75	6.9	30 - 130	30	
Diethyl phthalate	ND	230	75	78	3.9	71	76	6.8	30 - 130	30	
Dimethylphthalate	ND	230	75	75	0.0	70	75	6.9	30 - 130	30	
Di-n-butylphthalate	ND	230	80	82	2.5	77	81	5.1	30 - 130	30	
Di-n-octylphthalate	ND	230	84	90	6.9	86	96	11.0	30 - 130	30	
Fluoranthene	ND	230	77	80	3.8	73	83	12.8	30 - 130	30	
Fluorene	ND	230	73	74	1.4	72	76	5.4	30 - 130	30	
Hexachlorobenzene	ND	130	71	72	1.4	67	74	9.9	30 - 130	30	
Hexachlorobutadiene	ND	230	60	65	8.0	61	62	1.6	30 - 130	30	
Hexachlorocyclopentadiene	ND	230	56	58	3.5	26	12	73.7	30 - 130	30	m,r
Hexachloroethane	ND	130	52	57	9.2	49	49	0.0	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	79	83	4.9	54	65	18.5	30 - 130	30	
Isophorone	ND	130	64	66	3.1	62	66	6.3	30 - 130	30	
Naphthalene	ND	230	63	66	4.7	64	70	9.0	30 - 130	30	
Nitrobenzene	ND	130	64	69	7.5	64	68	6.1	30 - 130	30	
N-Nitrosodimethylamine	ND	230	50	56	11.3	48	48	0.0	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	130	69	72	4.3	66	70	5.9	30 - 130	30	
N-Nitrosodiphenylamine	ND	130	76	78	2.6	81	83	2.4	30 - 130	30	
Pentachloronitrobenzene	ND	230	72	75	4.1	62	63	1.6	30 - 130	30	
Pentachlorophenol	ND	230	71	66	7.3	71	75	5.5	30 - 130	30	
Phenanthrene	ND	130	76	77	1.3	71	77	8.1	30 - 130	30	
Phenol	ND	230	68	70	2.9	65	69	6.0	30 - 130	30	
Pyrene	ND	230	78	80	2.5	78	85	8.6	30 - 130	30	
Pyridine	ND	230	34	38	11.1	31	32	3.2	30 - 130	30	
% 2,4,6-Tribromophenol	68	%	75	74	1.3	69	74	7.0	30 - 130	30	
% 2-Fluorobiphenyl	65	%	67	66	1.5	63	68	7.6	30 - 130	30	
% 2-Fluorophenol	61	%	62	66	6.3	58	62	6.7	30 - 130	30	
% Nitrobenzene-d5	63	%	63	68	7.6	63	67	6.2	30 - 130	30	
% Phenol-d5	66	%	67	69	2.9	64	68	6.1	30 - 130	30	
% Terphenyl-d14	88	%	83	87	4.7	81	87	7.1	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 324040 (mg/Kg), QC Sample No: BK10176 (BK10403)

TPH by GC (Extractable Products) - Solid

Ext. Petroleum HC	ND	50	64	64	0.0	54			30 - 130	30
% n-Pentacosane	63	%	81	88	8.3	73			50 - 150	30

QA/QC Batch 324287 (ug/Kg), QC Sample No: BK10389 2X (BK10399, BK10400)

Pesticides - Solid

4,4' -DDD	ND	1.7	68	77	12.4	68	67	1.5	40 - 140	30
4,4' -DDE	ND	1.7	72	83	14.2	72	70	2.8	40 - 140	30
4,4' -DDT	ND	1.7	69	78	12.2	72	70	2.8	40 - 140	30
a-BHC	ND	1.0	64	78	19.7	58	56	3.5	40 - 140	30
a-Chlordane	ND	3.3	66	76	14.1	77	75	2.6	40 - 140	30

QA/QC Data

SDG I.D.: GBK10399

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Aldrin	ND	1.0	62	74	17.6	80	79	1.3	40 - 140	30	
b-BHC	ND	1.0	64	75	15.8	70	73	4.2	40 - 140	30	
Chlordane	ND	33	74	82	10.3	68	62	9.2	40 - 140	30	
d-BHC	ND	3.3	59	66	11.2	56	54	3.6	40 - 140	30	
Dieldrin	ND	1.0	69	79	13.5	73	73	0.0	40 - 140	30	
Endosulfan I	ND	3.3	69	78	12.2	76	73	4.0	40 - 140	30	
Endosulfan II	ND	3.3	69	79	13.5	72	72	0.0	40 - 140	30	
Endosulfan sulfate	ND	3.3	68	76	11.1	63	65	3.1	40 - 140	30	
Endrin	ND	3.3	63	73	14.7	70	68	2.9	40 - 140	30	
Endrin aldehyde	ND	3.3	70	74	5.6	73	77	5.3	40 - 140	30	
Endrin ketone	ND	3.3	75	84	11.3	74	75	1.3	40 - 140	30	
g-BHC	ND	1.0	67	80	17.7	55	57	3.6	40 - 140	30	
g-Chlordane	ND	3.3	74	82	10.3	68	62	9.2	40 - 140	30	
Heptachlor	ND	3.3	68	81	17.4	65	62	4.7	40 - 140	30	
Heptachlor epoxide	ND	3.3	67	77	13.9	64	61	4.8	40 - 140	30	
Methoxychlor	ND	3.3	70	78	10.8	76	76	0.0	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	91	%	75	71	5.5	78	75	3.9	30 - 150	30	
% TCMX	83	%	65	79	19.4	67	61	9.4	30 - 150	30	
QA/QC Batch 324061 (ug/Kg), QC Sample No: BK10391 2X (BK10399, BK10400)											
Chlorinated Herbicides - Solid											
2,4,5-T	ND	8.3	68	65	4.5	48	34	34.1	40 - 140	30	r
2,4,5-TP (Silvex)	ND	8.3	50	44	12.8	38	97	87.4	40 - 140	30	r
2,4-D	ND	8.3	45	44	2.2	57	49	15.1	40 - 140	30	
2,4-DB	ND	67	76	82	7.6	91	129	34.5	40 - 140	30	r
Dalapon	ND	8.3	40	43	7.2	31	32	3.2	40 - 140	30	
Dicamba	ND	17	88	92	4.4	63	79	22.5	40 - 140	30	
Dichloroprop	ND	8.3	44	47	6.6	43	Intf	NC	40 - 140	30	
Dinoseb	ND	17	68	74	8.5	58	119	68.9	40 - 140	30	r
% DCAA (Surrogate Rec)	70	%	65	68	4.5	54	62	13.8	30 - 150	30	
QA/QC Batch 324041 (ug/Kg), QC Sample No: BK10391 2X (BK10399, BK10400)											
Polychlorinated Biphenyls - Solid											
PCB-1016	ND	33	103	86	18.0	59	93	44.7	40 - 140	30	r
PCB-1221	ND	33							40 - 140	30	
PCB-1232	ND	33							40 - 140	30	
PCB-1242	ND	33							40 - 140	30	
PCB-1248	ND	33							40 - 140	30	
PCB-1254	ND	33							40 - 140	30	
PCB-1260	ND	33	101	85	17.2	65	91	33.3	40 - 140	30	r
PCB-1262	ND	33							40 - 140	30	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	100	%	107	92	15.1	69	115	50.0	30 - 150	30	r
% TCMX (Surrogate Rec)	97	%	107	92	15.1	71	101	34.9	30 - 150	30	r
QA/QC Batch 324131 (ug/kg), QC Sample No: BK10402 (BK10401, BK10402)											
Volatiles - Solid											
1,1,1,2-Tetrachloroethane	ND	5.0	107	111	3.7	100	101	1.0	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	101	105	3.9	96	97	1.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	106	107	0.9	103	102	1.0	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	96	97	1.0	93	91	2.2	70 - 130	30	
1,1-Dichloroethane	ND	5.0	97	99	2.0	92	93	1.1	70 - 130	30	
1,1-Dichloroethene	ND	5.0	109	112	2.7	94	91	3.2	70 - 130	30	

QA/QC Data

SDG I.D.: GBK10399

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,3-Trichlorobenzene	ND	5.0	109	112	2.7	89	98	9.6	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	113	115	1.8	94	101	7.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	104	103	1.0	93	93	0.0	70 - 130	30	
1,2-Dibromoethane	ND	5.0	105	107	1.9	98	95	3.1	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	105	106	0.9	100	100	0.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0	101	102	1.0	96	95	1.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	96	98	2.1	93	91	2.2	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	106	106	0.0	100	100	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	104	105	1.0	99	99	0.0	70 - 130	30	
2-Hexanone	ND	25	92	93	1.1	87	82	5.9	70 - 130	30	
4-Methyl-2-pentanone	ND	25	90	92	2.2	85	85	0.0	70 - 130	30	
Acetone	ND	10	83	83	0.0	61	61	0.0	70 - 130	30	m
Acrolein	ND	25	95	97	2.1	83	81	2.4	70 - 130	30	
Acrylonitrile	ND	5.0	97	95	2.1	92	90	2.2	70 - 130	30	
Benzene	ND	1.0	97	98	1.0	93	94	1.1	70 - 130	30	
Bromochloromethane	ND	5.0	98	102	4.0	92	92	0.0	70 - 130	30	
Bromodichloromethane	ND	5.0	104	106	1.9	98	96	2.1	70 - 130	30	
Bromoform	ND	5.0	108	111	2.7	99	97	2.0	70 - 130	30	
Bromomethane	ND	5.0	111	116	4.4	80	87	8.4	70 - 130	30	
Carbon Disulfide	ND	5.0	111	113	1.8	96	95	1.0	70 - 130	30	
Carbon tetrachloride	ND	5.0	103	106	2.9	98	96	2.1	70 - 130	30	
Chlorobenzene	ND	5.0	102	105	2.9	97	98	1.0	70 - 130	30	
Chloroethane	ND	5.0	110	112	1.8	61	62	1.6	70 - 130	30	m
Chloroform	ND	5.0	100	102	2.0	93	93	0.0	70 - 130	30	
Chloromethane	ND	5.0	88	89	1.1	86	87	1.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	102	100	2.0	92	94	2.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	100	102	2.0	93	94	1.1	70 - 130	30	
Cyclohexane	ND	5.0	99	102	3.0	94	97	3.1	70 - 130	30	
Dibromochloromethane	ND	3.0	108	111	2.7	97	98	1.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	104	104	0.0	103	105	1.9	70 - 130	30	
Ethylbenzene	ND	1.0	104	107	2.8	99	99	0.0	70 - 130	30	
Isopropylbenzene	ND	1.0	105	105	0.0	100	100	0.0	70 - 130	30	
m&p-Xylene	ND	2.0	105	106	0.9	97	98	1.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	82	85	3.6	79	79	0.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	104	107	2.8	96	96	0.0	70 - 130	30	
Methylacetate	ND	5.0	101	101	0.0	94	93	1.1	70 - 130	30	
Methylcyclohexane	ND	5.0	100	102	2.0	99	98	1.0	70 - 130	30	
Methylene chloride	ND	5.0	80	82	2.5	76	76	0.0	70 - 130	30	
o-Xylene	ND	2.0	104	105	1.0	97	98	1.0	70 - 130	30	
Styrene	ND	5.0	104	107	2.8	98	98	0.0	70 - 130	30	
tert-butyl alcohol	ND	100	103	111	7.5	106	98	7.8	70 - 130	30	
Tetrachloroethene	ND	5.0	99	103	4.0	96	97	1.0	70 - 130	30	
Toluene	ND	1.0	100	102	2.0	96	96	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	110	114	3.6	102	102	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	100	102	2.0	92	93	1.1	70 - 130	30	
Trichloroethene	ND	5.0	102	103	1.0	97	99	2.0	70 - 130	30	
Trichlorofluoromethane	ND	5.0	106	111	4.6	45	46	2.2	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	111	114	2.7	96	98	2.1	70 - 130	30	
Vinyl chloride	ND	5.0	100	101	1.0	99	99	0.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	98	97	1.0	98	97	1.0	70 - 130	30	
% Bromofluorobenzene	96	%	100	102	2.0	100	100	0.0	70 - 130	30	
% Dibromofluoromethane	100	%	102	101	1.0	97	99	2.0	70 - 130	30	
% Toluene-d8	100	%	99	99	0.0	99	99	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBK10399

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
October 26, 2015

Sample Criteria Exceedences Report

GBK10399 - AMC-ENG

Criteria: NJ: NRC, RC; NY: 375, 375RRS, 375RS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BK10399	$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	19	2.3	3.3	3.3	ug/Kg
BK10399	$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	8.2	2.3	3.3	3.3	ug/Kg
BK10399	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	32.0	0.35	30		mg/Kg
BK10399	NI-SM	Nickel	NY / 375-6.8 Metals / Residential	204	3.5	140	140	mg/Kg
BK10399	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	204	3.5	30	30	mg/Kg
BK10399	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	85.9	0.35	63	63	mg/Kg
BK10400	$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	16	2.3	3.3	3.3	ug/Kg
BK10400	$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	9.0	2.3	3.3	3.3	ug/Kg
BK10400	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	33.7	0.36	30		mg/Kg
BK10400	NI-SM	Nickel	NY / 375-6.8 Metals / Residential	167	3.6	140	140	mg/Kg
BK10400	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	167	3.6	30	30	mg/Kg
BK10400	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	63.4	0.36	63	63	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY Temperature Narration

October 26, 2015

SDG I.D.: GBK10399

The samples in this delivery group were received at 5°C.
(Note acceptance criteria is above freezing up to 6°C)

PHOENIX Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

5°w/ice

Temp

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery:
☐ Fax #:
☑ Emai ARIEL@AMC-ENGINEERING.COM

Customer:	AMC ENGINEERING PLLC	Project:	PS 52R	Project P.O:	
Address:	99 JERICHO TURNPIKE STE. 300J	Report to:	ARIEL CZEMERINSKI	Phone #:	516 417-8588
	JERICHO NY 11753	Invoice to:	AMC ENGINEERING PLLC	Fax #:	516 706-3214

Sampler's Signature: [signature] Date: 10/16/2015

Client Sample Information - Identification

Matrix Code:
DW=drinking water **WW**=wastewater **S**=soil/solid **O**=oil
GW=groundwater **SL**=sludge **A**=air **X**=other

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	TCLP Metals (EPA 1311/6010)	RCRA Charact (Ignit., React., Corr, pH, *****)	TAL Metals (6010)	PCB (EPA 8082A)	Herb/Pest (NJDEP+TCL/TAL) EPA8081A/8151A	TPH (8015M)	SVOC (8270)	Paint Filter	VOC (8260)				Soil VOA [X] Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container (8) oz	GL Soil container (2) oz	40 ml VOA Vial [ ] As is [x] HCl	GL Amber 1000ml [x] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Encore
10399	C1	S	10/16/2015	9:00 AM	X	X	X	X	X		X	X						2								
10400	C2	S	10/16/2015	9:00 AM	X	X	X	X	X		X							2								
10401	GR1	S	10/16/2015	9:00 AM									X						1							
10402	GR2	S	10/16/2015	9:00 AM									X						1							
10403	TPH	S	10/16/2015	9:00 AM						X								1								

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	10-19-15	11:15
[signature]	[signature]	10-19-15	1634

Comments, Special Requirements or Regulations:

37

***** (sulfide and cyanide) - EPA 9040C, 1010A, and SW846, Ch.7.3

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ Standard
■ Other 5 DAYS
* SURCHARGE APPLIES

NJ
■ Res. Criteria
■ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ GW Criteria

NY
☐ TAGM 4046 GW
☐ TAGM 4046 SOIL
■ NY375 Unrestricted Soil
■ NY375 Residential Soil
■ NY375 Restricted Non-Residential Soil

Data Format
☐ Phoenix Std Report
■ Excel
■ PDF
☐ GIS/Key
☐ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other _____

Data Package
☐ NJ Reduced Deliv. *
☐ NY Enhanced (ASP B) *
☐ Other

State where samples were collected: NY

M.D.F. Contracting Corp.

220 Tysens Lane
Staten Island, NY, 10306

Office: (718) 979-0126
Cell: (917) 579-4066
Fax: (718) 979-0189

Ref.: PS-52R: NYC SCA Project, Specification Section 02200 Design No. D016082

To Whom It May Concern

I, Michael Fazio, President of MDF Contracting Corporation certify that

- MDF Contracting Corporation (MDF) has provided the appropriate disposal facilities (Clean Earth, Inc.) with the analytical data from Phoenix Environmental Laboratories, Inc. report GBK10399 (dated October 27, 2015);
- The information in the waste profile form is complete and accurate;
- Prior to transporting any excavated material from Site, MDF will submit a signed acceptance letter from the appropriate disposal facilities to the authority.

I have verified that full disclosure of soil characterization has been provided to the disposal facility.

Sincerely,

Michael Fazio
President
MDF Contracting
Corporation

AMC Engineering, PLLC
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753
516.417.8588
Fax 516 706-3214

Sampling Event
PS 52R
450 Buel Avenue, Staten Island, NY 10305

Prepared for:
MDF Contracting Corporation
220 Tysens Lane
Staten Island, NY 10306

Prepared for:
New York City Schools Construction Authority
3030 Thomson Avenue
Long Island City, NY 11101

Prepared by:
AMC Engineering, PLLC
99 Jericho Turnpike, Suite 300J
Jericho, NY 11753
Phone: (516) 417-8588

November 16, 2015

Summary

On October 16, 2015, AMC Engineering PLLC mobilized onsite to retain soil samples from the areas to be excavated. The areas of excavation include the proposed excavation located as depicted on the attached Appendix A. Ten grab samples were obtained from the Site, which include the materials to be excavated around the existing school building.

Soil samples were collected from exposed soil and obtained with a sampling tool between six to thirty inches below grade. Samples were continuously monitored in-situ with a MiniRAE2000 Portable Photo-Ionization Detector. There were no PID readings detected, nor any strong odors.

Samples were formed as follows:

1) Formed two (2) 5-Point Composite Soil Samples from ten (10) grabs from excavated soil samples (5 grabs per composite). The 5-pt composite soil samples were analyzed for the following:

    - TCLP Metals (Toxicity Characteristic Leaching Procedure for RCRA metals, EPA 1311/6010)
    - RCRA hazardous waste characteristics (Ignitability, Reactivity, Corrosivity, pH;
    - Target Analyte List (TAL) Metals – *EPA Method 6010;*
    - Polychlorinated Biphenyls (PCBs) – *EPA Method 8082A*;
    - Pesticides and Herbicides – *EPA Method 8081A;*
    - Paint Filter
    - Semi-Volatile Organic Compounds (SVOCs) – *EPA Method 8270*
    - Total Petroleum Hydrocarbons (TPH) – *EPA Method 8015M*

2) Retained two (2) grab soil samples as per sampling plan. The grab soil samples were analyzed for the following:

    - Volatile Organic Compounds (VOCs) – *EPA Method 8260.*

Quality Control of Samples

Soil samples were retained in laboratory supplied/cleaned glassware and tracked from laboratory issuance through laboratory receipt of samples using a Chain of Custody. The sample containers were properly labeled and documented on the Chain of Custody and within the bound log book, placed in a zip-lock plastic bag and placed in a cooler with ice to maintain a temperature of 4° C. Samples were picked up by a Phoenix sample courier on October 19, 2015. Courier service is provided by a

laboratory employee. Sample receipt by the laboratory shall be considered as signed receipt by the laboratory courier.

Sample analysis was performed by Phoenix Environmental Laboratories, Inc. (Phoenix), a New York State ELAP certified environmental laboratory (NY Lab ID # 11301) and State of New Jersey Department of Environmental Protection Certified Laboratory (Certification ID # CT003).

Results

The laboratory results of the soil samples were compared to NY Part 375-6 Soil Cleanup Objectives. All analytes fell below the Unrestricted Use Soil Cleanup Objectives (UUSCO) and Protection of Groundwater Standards (GWP), with the exception of the following:

- Chromium: measured 32.0 and 33.7 ppm (C1 and C2, respectively). UUSCO criteria is 30 ppm. There is no GWP criteria for chromium.
- Lead: measured 85.9 and 63.4 ppm (C1 and C2, respectively). UUSCO criteria is 63 ppm. GWP criteria is 450 ppm.
- Nickel: measured 204 and 167 ppm (C1 and C2, respectively). UUSCO criteria is 30 ppm. Residential Use SCOs criteria is 140 ppm. GWP criteria is 130 ppm.
- 4,4'-DDT: measured 19 and 16 ppb (C1 and C2, respectively). UUSCO criteria is 3.3 ppb. GWP criteria is 136,000 ppb.
- 4,4'-DDE: measured 8.2 and 9.0 ppb (C1 and C2, respectively). UUSCO criteria is 3.3 ppb. GWP criteria is 17,000 ppb.

All analytes fell below the Restricted-Residential Use SCOs. Nickel concentrations exceeded Protection of Groundwater standards in both composites.

The soil as tested met definition of Non-Hazardous Excavated Material, as defined in Specification Section 02200 Earthwork and the approved EMDP.

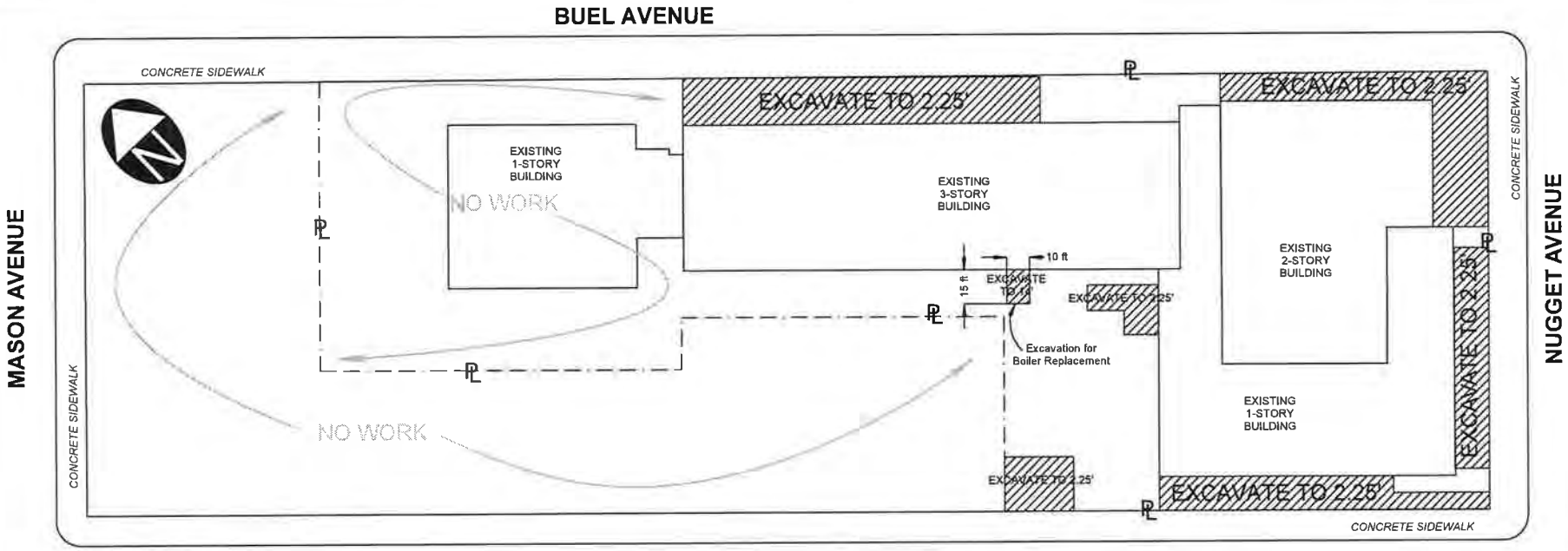
Based on laboratory results, the material to be excavated for the new pavers and new boiler room meet the requirements for disposal at:

- Clean Earth of Carteret;
- Equivalent disposal facility, as approved by the Authority.

Appendices

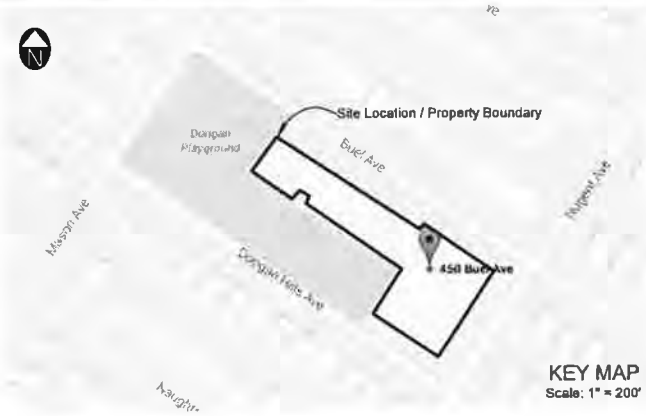
A: Site Plan and Sampling Plan
B: Soil Testing Results in Excel Form
C: Soil Testing Results from ELAP Certified Environmental Laboratory (official report)

Appendix A: Site Plan and Sampling Plan



LEGEND

Proposed Areas of Excavation



Calculation of Excavated Materials			
Name	**Total Area (sq. ft.)**	**Depth (ft)**	**Volume (yd^3)**
New Concrete Paver Installation	10800.00	2.25	920.00
Boiler Replacement	150.00	13.00	80.00
Total Materials (yd^3)			1000.00

AMC ENGINEERING PLLC
99 JERICHO TURNPIKE
JERICHO, NY 11753
(516) 417-8588

PROJECT

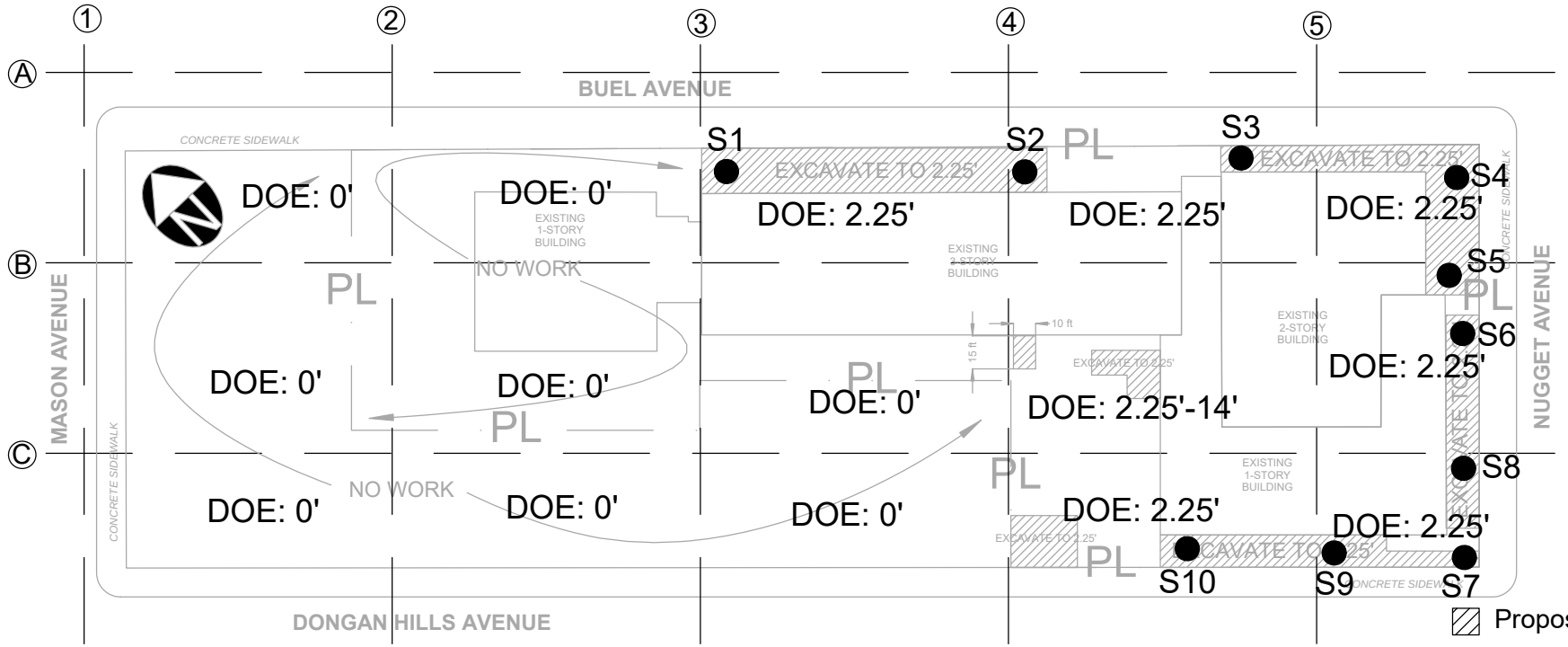
PS 52R
450 Buel Avenue
Staten Island, NY 10305

TITLE:

FIGURE 1
SITE PLAN

SEAL & SIGNATURE:

DATE: SEP 17, 2015
PROJECT No:
DRAWING BY: AS
CHK BY:
DWG No:
CADD FILE No: 18
1 of 2



LEGEND

Proposed Areas of Excavation

Sampling Locations

DoE: Depth of Excavation

Sampling Summary				
Sample	**5-pt comp (C1+TPH)**	**5-pt comp (C2)**	**VOC grab**	**Depth of Sample**
S1	X			30"
S2	X			24"
S3	X		X	12"
S4	X			18"
S5	X			6"
S6		X		6"
S7		X	X	30"
S8		X		12"
S9		X		18"
S10		X		24"

AMC ENGINEERING PLLC
99 JERICHO TURNPIKE
JERICHO, NY 11753
(516) 417-8588

PROJECT

PS 52R
450 Buel Avenue
Staten Island, NY 10305

TITLE:

FIGURE 2
WASTE CHARACTERIZATION
SAMPLING PLAN

SEAL & SIGNATURE:

DATE: SEP 17, 2015
PROJECT No:
DRAWING BY: AS
CHK BY:
DWG No:

6
CADO FILE No:

Appendix B: Soil Testing Results in Excel Form

Phoenix Environmental Laboratories, Inc.																			
587 East Middle Turnpike																			
P.O. Box 370	Lab Sample Id									BK10399		BK10400		BK10401		BK10402		BK10403	
Manchester, CT 06040	Collection Date									10/16/2015		10/16/2015		10/16/2015		10/16/2015		10/16/2015	
(860) 645-1102	Client Id									C1		C2		GR1		GR2		TPH	
	Matrix									Solid		Solid		Solid		Solid		Solid	
Project Id : PS 52R																			
	CAS	Units	40 CFR 261.24	NJ-Soil Non Res.	NJ-Soil Res.	NY-GWP	NY-Res.	NY-ResRestrict	NY-UnRestricted	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Miscellaneous/Inorganics																			
Percent Solid	PHNX - PCTSOLID	%								85		87		92		86		85	
Corrosivity	PHNX - CORROSIVITY	Pos/Neg								Negative		Negative							
Flash Point	PHNX - FLASH POINT	Degree F								>200	200	>200	200						
Ignitability	PHNX - IGNITABILITY	degree F								Passed	140	Passed	140						
pH - Soil	PHNX - PH	pH Units								7.38	0.10	7.89	0.10						
Reactivity Cyanide	PHNX - REACT CYANIDE	mg/Kg								< 5.9	5.9	< 5.7	5.7						
Reactivity Sulfide	PHNX - REACT SULFIDE	mg/Kg								< 20	20	< 20	20						
Reactivity	PHNX - REACTIVITY	Pos/Neg								Negative		Negative							
Total Sulfide	18496-25-8	mg/Kg								< 12	12	< 11	11						
Total Cyanide (SW9010C Distill.)	57-12-5	mg/Kg		23,000	1,600		27	27	27	< 0.53	0.53	< 0.48	0.48						
Metals, Total																			
Aluminum	7429-90-5	mg/Kg			78,000					12,300	52	12,800	54						
Antimony	7440-36-0	mg/Kg		450	31					< 3.5	3.5	< 3.6	3.6						
Arsenic	7440-38-2	mg/Kg		19	19	16	16	16	13	5.6	0.7	5.7	0.7						
Barium	7440-39-3	mg/Kg		59,000	16,000	820	350	400	350	80.1	0.35	79.7	0.36						
Beryllium	7440-41-7	mg/Kg		140	16	47	14	72	7.2	0.56	0.28	0.61	0.29						
Cadmium	7440-43-9	mg/Kg		78	78	7.5	2.5	4.3	2.5	0.86	0.35	0.73	0.36						
Calcium	7440-70-2	mg/Kg								4,150	5.2	4,150	5.4						
Chromium	7440-47-3	mg/Kg							30	32	0.35	33.7	0.36						
Cobalt	7440-48-4	mg/Kg		590	1,600					14.6	0.35	13.9	0.36						
Copper	7440-50-8	mg/kg		45,000	3,100	1,720	270	270	50	34.1	0.35	33.6	0.36						
Iron	7439-89-6	mg/Kg								19,500	52	21,500	54						
Lead	7439-92-1	mg/Kg		800	400	450	400	400	63	85.9	0.35	63.4	0.36						
Magnesium	7439-95-4	mg/Kg								12,700	52	12,500	54						
Manganese	7439-96-5	mg/Kg		5,900	11,000	2,000	2,000	2,000	1,600	416	3.5	409	3.6						
Mercury	7439-97-6	mg/Kg		65	23	0.73	0.81	0.81	0.18	0.13	0.03	0.13	0.03						
Nickel	7440-02-0	mg/Kg		23,000	1,600	130	140	310	30	204	3.5	167	3.6						
Potassium	9/7/7440	mg/Kg								1,240	5.2	1,530	5.4						
Selenium	7782-49-2	mg/Kg		5,700	390	4	36	180	3.9	< 1.4	1.4	< 1.4	1.4						
Silver	7440-22-4	mg/Kg		5,700	390	8.3	36	180	2	< 0.35	0.35	< 0.36	0.36						
Sodium	7440-23-5	mg/Kg								148	5.2	205	5.4						
Thallium	7440-28-0	mg/Kg		79	5					< 3.1	3.1	< 3.2	3.2						
Vanadium	7440-62-2	mg/Kg		1,100	78					29.3	0.35	34.5	0.36						
Zinc	7440-66-6	mg/Kg		110,000	23,000	2,480	2,200	10,000	109	108	0.35	92.3	0.36						
Metals, TCLP																			
TCLP Arsenic	7440-38-2	mg/L	5							< 0.10	0.10	< 0.10	0.10						
TCLP Barium	7440-39-3	mg/L	100							0.5	0.10	0.49	0.10						
TCLP Cadmium	7440-43-9	mg/L	1							< 0.050	0.050	< 0.050	0.050						
TCLP Chromium	7440-47-3	mg/L	5							< 0.10	0.10	< 0.10	0.10						
TCLP Lead	7439-92-1	mg/L	5							< 0.10	0.10	< 0.10	0.10						
TCLP Mercury	7439-97-6	mg/L	0.2							< 0.0002	0.0002	< 0.0002	0.0002						
TCLP Selenium	7782-49-2	mg/L	1							< 0.10	0.10	< 0.10	0.10						
TCLP Silver	7440-22-4	mg/L	5							< 0.10	0.10	< 0.10	0.10						
TPH By 8015D DRO																			
Diesel Range Organics (C10-C28)	PHNX - DRO	mg/Kg																76	58
PCBs By SW8082A																			
PCB-1016	12674-11-2	ug/Kg				1,000	1,000		100	< 78	78	< 75	75						
PCB-1221	11104-28-2	ug/Kg				1,000	1,000		100	< 78	78	< 75	75						
PCB-1232	11141-16-5	ug/Kg				1,000	1,000		100	< 78	78	< 75	75						
PCB-1242	53469-21-9	ug/Kg		1,000	200	1,000	1,000		100	< 78	78	< 75	75						
PCB-1248	12672-29-6	ug/Kg			200	1,000	1,000		100	< 78	78	< 75	75						
PCB-1254	11097-69-1	ug/Kg			200	1,000	1,000		100	< 78	78	< 75	75						
PCB-1260	11096-82-5	ug/Kg			200	1,000	1,000		100	< 78	78	< 75	75						
PCB-1262	37324-23-5	ug/Kg								< 78	78	< 75	75						
PCB-1268	11100-14-4	ug/Kg								< 78	78	< 75	75						
Result Detected																			
RL Exceeds Criteria																			
Result Exceeds Criteria																			

Phoenix Environmental Laboratories, Inc.																			
587 East Middle Turnpike																			
P.O. Box 370	Lab Sample Id									BK10399		BK10400		BK10401		BK10402		BK10403	
Manchester, CT 06040	Collection Date									10/16/2015		10/16/2015		10/16/2015		10/16/2015		10/16/2015	
(860) 645-1102	Client Id									C1		C2		GR1		GR2		TPH	
	Matrix									Solid		Solid		Solid		Solid		Solid	
Project Id : PS 52R																			
	CAS	Units	40 CFR 261.24	NJ-Soil Non Res.	NJ-Soil Res.	NY-GWP	NY-Res.	NY-ResRestrict	NY-UnRestricted	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Volatiles By SW8260C																			
1,1,1-Trichloroethane	71-55-6	ug/Kg		4,200,000	290,000	680	100,000	100,000	680					< 5.4	5.4	< 5.9	5.9		
1,1,2,2-Tetrachloroethane	79-34-5	ug/Kg		3,000	1,000									< 5.4	5.4	< 5.9	5.9		
1,1,2-Trichloroethane	79-00-5	ug/Kg		6,000	2,000									< 5.4	5.4	< 5.9	5.9		
1,1-Dichloroethane	75-34-3	ug/Kg		24,000	8,000	270	19,000	26,000	270					< 5.4	5.4	< 5.9	5.9		
1,1-Dichloroethene	75-35-4	ug/Kg		150,000	11,000	330	100,000	100,000	330					< 5.4	5.4	< 5.9	5.9		
1,2,3-Trichlorobenzene	87-61-6	ug/Kg												< 5.4	5.4	< 5.9	5.9		
1,2,4-Trichlorobenzene	120-82-1	ug/Kg		820,000	73,000									< 5.4	5.4	< 5.9	5.9		
1,2-Dibromo-3-chloropropane	96-12-8	ug/Kg		200	80									< 5.4	5.4	< 5.9	5.9		
1,2-Dibromoethane	106-93-4	ug/Kg		40	8									< 5.4	5.4	< 5.9	5.9		
1,2-Dichlorobenzene	95-50-1	ug/Kg		59,000,000	5,300,000	1,100	100,000	100,000	1,100					< 5.4	5.4	< 5.9	5.9		
1,2-Dichloroethane	107-06-2	ug/Kg		3,000	900	20	2,300	3,100	20					< 5.4	5.4	< 5.9	5.9		
1,2-Dichloropropane	78-87-5	ug/Kg		5,000	2,000									< 5.4	5.4	< 5.9	5.9		
1,3-Dichlorobenzene	541-73-1	ug/Kg		59,000,000	5,300,000	2,400	17,000	49,000	2,400					< 5.4	5.4	< 5.9	5.9		
1,4-Dichlorobenzene	106-46-7	ug/Kg		13,000	5,000	1,800	9,800	13,000	1,800					< 5.4	5.4	< 5.9	5.9		
2-Hexanone	591-78-6	ug/Kg												< 27	27	< 29	29		
4-Methyl-2-pentanone	108-10-1	ug/Kg												< 27	27	< 29	29		
Acetone	67-64-1	ug/Kg			70,000,000	50	100,000	100,000	50					< 50	50	< 50	50		
Benzene	71-43-2	ug/Kg		5,000	2,000	60	2,900	4,800	60					< 5.4	5.4	< 5.9	5.9		
Bromochloromethane	74-97-5	ug/Kg												< 5.4	5.4	< 5.9	5.9		
Bromodichloromethane	75-27-4	ug/Kg		3,000	1,000									< 5.4	5.4	< 5.9	5.9		
Bromoform	75-25-2	ug/Kg		280,000	81,000									< 5.4	5.4	< 5.9	5.9		
Bromomethane	74-83-9	ug/Kg		59,000	25,000									< 5.4	5.4	< 5.9	5.9		
Carbon Disulfide	75-15-0	ug/Kg		110,000,000	7,800,000									< 5.4	5.4	< 5.9	5.9		
Carbon tetrachloride	56-23-5	ug/Kg		2,000	600	760	1,400	2,400	760					< 5.4	5.4	< 5.9	5.9		
Chlorobenzene	108-90-7	ug/Kg		7,400,000	510,000	1,100	100,000	100,000	1,100					< 5.4	5.4	< 5.9	5.9		
Chloroethane	75-00-3	ug/Kg		1,100,000	220,000									< 5.4	5.4	< 5.9	5.9		
Chloroform	67-66-3	ug/Kg		2,000	600	370	10,000	49,000	370					< 5.4	5.4	< 5.9	5.9		
Chloromethane	74-87-3	ug/Kg		12,000	4,000									< 5.4	5.4	< 5.9	5.9		
cis-1,2-Dichloroethene	156-59-2	ug/Kg		560,000	230,000	250	59,000	100,000	250					< 5.4	5.4	< 5.9	5.9		
cis-1,3-Dichloropropene	10061-01-5	ug/Kg												< 5.4	5.4	< 5.9	5.9		
Cyclohexane	110-82-7	ug/Kg												< 5.4	5.4	< 5.9	5.9		
Dibromochloromethane	124-48-1	ug/Kg		8,000	3,000									< 5.4	5.4	< 5.9	5.9		
Dichlorodifluoromethane	75-71-8	ug/Kg		230,000,000	490,000									< 5.4	5.4	< 5.9	5.9		
Ethylbenzene	100-41-4	ug/Kg		110,000,000	7,800,000	1,000	30,000	41,000	1,000					< 5.4	5.4	< 5.9	5.9		
Isopropylbenzene	98-82-8	ug/Kg												< 5.4	5.4	< 5.9	5.9		
m&p-Xylene	179601-23-1	ug/Kg												< 5.4	5.4	< 5.9	5.9		
Methyl ethyl ketone	78-93-3	ug/Kg		44,000,000	3,100,000	120	100,000	100,000	120					< 32	32	< 35	35		
Methyl t-butyl ether (MTBE)	1634-04-4	ug/Kg		320,000	110,000	930	62,000	100,000	930					< 11	11	< 12	12		
Methylacetate	79-20-9	ug/Kg			78,000,000									< 5.4	5.4	< 5.9	5.9		
Methylcyclohexane	108-87-2	ug/Kg												< 5.4	5.4	< 5.9	5.9		
Methylene chloride	75-09-2	ug/Kg		97,000	34,000	50	51,000	100,000	50					< 5.4	5.4	< 5.9	5.9		
o-Xylene	95-47-6	ug/Kg												< 5.4	5.4	< 5.9	5.9		
Styrene	100-42-5	ug/Kg		260,000	90,000									< 5.4	5.4	< 5.9	5.9		
Tetrachloroethene	127-18-4	ug/Kg		5,000	2,000	1,300	5,500	19,000	1,300					< 5.4	5.4	< 5.9	5.9		
Toluene	108-88-3	ug/Kg		91,000,000	6,300,000	700	100,000	100,000	700					< 5.4	5.4	< 5.9	5.9		
Total Xylenes	1330-20-7	ug/Kg		170,000,000	12,000,000	1,600		100,000	260					< 5.4	5.4	< 5.9	5.9		
trans-1,2-Dichloroethene	156-60-5	ug/Kg		720,000	300,000	190	100,000	100,000	190					< 5.4	5.4	< 5.9	5.9		
trans-1,3-Dichloropropene	10061-02-6	ug/Kg												< 5.4	5.4	< 5.9	5.9		
Trichloroethene	79-01-6	ug/Kg		20,000	7,000	470	10,000	21,000	470					< 5.4	5.4	< 5.9	5.9		
Trichlorofluoromethane	75-69-4	ug/Kg		340,000,000	23,000,000									< 5.4	5.4	< 5.9	5.9		
Trichlorotrifluoroethane	76-13-1	ug/Kg												< 5.4	5.4	< 5.9	5.9		
Vinyl chloride	75-01-4	ug/Kg		2,000	700	20	210	900	20					< 5.4	5.4	< 5.9	5.9		
1,1,1,2-Tetrachloroethane	630-20-6	ug/Kg												< 22	22	< 23	23		
Acrolein	107-02-8	ug/Kg		1,000	500									< 22	22	< 23	23		
Acrylonitrile	107-13-1	ug/Kg		3,000	900									< 22	22	< 23	23		
Tert-butyl alcohol	75-65-0	ug/Kg		11,000,000	1,400,000									< 110	110	< 120	120		
Result Detected																			
RL Exceeds Criteria																			
Result Exceeds Criteria																			

Phoenix Environmental Laboratories, Inc.																			
587 East Middle Turnpike																			
P.O. Box 370	Lab Sample Id									BK10399		BK10400		BK10401		BK10402		BK10403	
Manchester, CT 06040	Collection Date									10/16/2015		10/16/2015		10/16/2015		10/16/2015		10/16/2015	
(860) 645-1102	Client Id									C1		C2		GR1		GR2		TPH	
	Matrix									Solid		Solid		Solid		Solid		Solid	
Project Id : PS 52R																			
	CAS	Units	40 CFR 261.24	NJ-Soil Non Res.	NJ-Soil Res.	NY-GWP	NY-Res.	NY-ResRestrict	NY-UnRestricted	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Semivolatiles By SW8270D																			
1,2,4,5-Tetrachlorobenzene	95-94-3	ug/Kg								< 270	270	< 260	260						
1,2,4-Trichlorobenzene	120-82-1	ug/Kg		820,000	73,000					< 270	270	< 260	260						
1,2-Dichlorobenzene	95-50-1	ug/Kg		59,000,000	5,300,000					< 270	270	< 260	260						
1,2-Diphenylhydrazine	122-66-7	ug/Kg		2,000	700					< 390	390	< 380	380						
1,3-Dichlorobenzene	541-73-1	ug/Kg		59,000,000	5,300,000					< 270	270	< 260	260						
1,4-Dichlorobenzene	106-46-7	ug/Kg		13,000	5,000					< 270	270	< 260	260						
2,4,5-Trichlorophenol	95-95-4	ug/Kg		68,000,000	6,100,000					< 270	270	< 260	260						
2,4,6-Trichlorophenol	88-06-2	ug/Kg		74,000	19,000					< 270	270	< 260	260						
2,4-Dichlorophenol	120-83-2	ug/Kg		2,100,000	180,000					< 270	270	< 260	260						
2,4-Dimethylphenol	105-67-9	ug/Kg		14,000,000	1,200,000					< 270	270	< 260	260						
2,4-Dinitrophenol	51-28-5	ug/Kg		1,400,000	120,000					< 630	630	< 600	600						
2,4-Dinitrotoluene	121-14-2	ug/Kg		3,000	700					< 270	270	< 260	260						
2,6-Dinitrotoluene	606-20-2	ug/Kg		3,000	700					< 270	270	< 260	260						
2-Chloronaphthalene	91-58-7	ug/Kg								< 270	270	< 260	260						
2-Chlorophenol	95-57-8	ug/Kg		2,200,000	310,000					< 270	270	< 260	260						
2-Methylnaphthalene	91-57-6	ug/Kg		2,400,000	230,000					< 270	270	< 260	260						
2-Methylphenol (o-cresol)	95-48-7	ug/Kg		3,400,000	310,000		100,000	100,000	330	< 270	270	< 260	260						
2-Nitroaniline	88-74-4	ug/Kg		23,000,000	39,000					< 630	630	< 600	600						
2-Nitrophenol	88-75-5	ug/Kg								< 270	270	< 260	260						
3&4-Methylphenol (m&p-cresol)	PHNX - M&P CRESOL	ug/Kg								< 390	390	< 380	380						
3,3'-Dichlorobenzidine	91-94-1	ug/Kg		4,000	1,000					< 270	270	< 260	260						
3-Nitroaniline	99-09-2	ug/Kg								< 630	630	< 600	600						
4,6-Dinitro-2-methylphenol	534-52-1	ug/Kg		68,000	6,000					< 1100	1,100	< 1100	1,100						
4-Bromophenyl phenyl ether	101-55-3	ug/Kg								< 390	390	< 380	380						
4-Chloro-3-methylphenol	59-50-7	ug/Kg								< 270	270	< 260	260						
4-Chloroaniline	106-47-8	ug/Kg								< 270	270	< 260	260						
4-Chlorophenyl phenyl ether	7005-72-3	ug/Kg								< 270	270	< 260	260						
4-Nitroaniline	100-01-6	ug/Kg								< 630	630	< 600	600						
4-Nitrophenol	100-02-7	ug/Kg								< 1100	1,100	< 1100	1,100						
Acenaphthene	83-32-9	ug/Kg		37,000,000	3,400,000		100,000	100,000	20,000	< 270	270	< 260	260						
Acenaphthylene	208-96-8	ug/Kg		300,000,000			100,000	100,000	100,000	< 270	270	< 260	260						
Acetophenone	98-86-2	ug/Kg		5,000	2,000					< 270	270	< 260	260						
Aniline	62-53-3	ug/Kg								< 1100	1,100	< 1100	1,100						
Anthracene	120-12-7	ug/Kg		30,000,000	17,000,000		100,000	100,000	100,000	< 270	270	< 260	260						
Benz(a)anthracene	56-55-3	ug/Kg		2,000	600		1,000	1,000	1,000	< 270	270	< 260	260						
Benzidine	92-87-5	ug/Kg		700	700					< 470	470	< 450	450						
Benzo(a)pyrene	50-32-8	ug/Kg		200	200		1,000	1,000	1,000	< 200	200	< 200	200						
Benzo(b)fluoranthene	205-99-2	ug/Kg		2,000	600		1,000	1,000	1,000	< 270	270	< 260	260						
Benzo(ghi)perylene	191-24-2	ug/Kg		30,000,000	380,000,000		100,000	100,000	100,000	< 270	270	< 260	260						
Benzo(k)fluoranthene	207-08-9	ug/Kg		23,000	6,000		1,000	3,900	800	< 270	270	< 260	260						
Benzoic acid	65-85-0	ug/Kg								< 1100	1,100	< 1100	1,100						
Benzyl butyl phthalate	85-68-7	ug/Kg		14,000,000	1,200,000					< 270	270	< 260	260						
Bis(2-chloroethoxy)methane	111-91-1	ug/Kg								< 270	270	< 260	260						
Bis(2-chloroethyl)ether	111-44-4	ug/Kg		2,000	400					< 390	390	< 380	380						
Bis(2-chloroisopropyl)ether	39638-32-9	ug/Kg								< 270	270	< 260	260						
Bis(2-ethylhexyl)phthalate	117-81-7	ug/Kg		140,000	35,000					630	270	520	260						
Carbazole	86-74-8	ug/Kg		96,000	24,000					< 590	590	< 560	560						
Chrysene	218-01-9	ug/Kg		230,000	62,000		1,000	3,900	1,000	< 270	270	< 260	260						
Dibenz(a,h)anthracene	53-70-3	ug/Kg		200	200		330	330	330	< 200	200	< 200	200						
Dibenzofuran	132-64-9	ug/Kg							7,000	< 270	270	< 260	260						
Diethyl phthalate	84-66-2	ug/Kg		550,000,000	49,000,000					< 270	270	< 260	260						
Dimethylphthalate	131-11-3	ug/Kg								< 270	270	< 260	260						
Di-n-butylphthalate	84-74-2	ug/Kg		68,000,000	6,100,000					< 270	270	< 260	260						
Di-n-octylphthalate	117-84-0	ug/Kg		27,000,000	2,400,000					< 270	270	< 260	260						
Fluoranthene	206-44-0	ug/Kg		24,000,000	2,300,000		100,000	100,000	100,000	300	270	< 260	260						
Fluorene	86-73-7	ug/Kg		24,000,000	2,300,000		100,000	100,000	30,000	< 270	270	< 260	260						
Hexachlorobenzene	118-74-1	ug/Kg		1,000	300					< 270	270	< 260	260						
Hexachlorobutadiene	87-68-3	ug/Kg		25,000	6,000					< 270	270	< 260	260						
Hexachlorocyclopentadiene	77-47-4	ug/Kg		110,000	45,000					< 270	270	< 260	260						
Hexachloroethane	67-72-1	ug/Kg		140,000	35,000					< 270	270	< 260	260						
Indeno(1,2,3-cd)pyrene	193-39-5	ug/Kg		2,000	600		500	500	500	< 270	270	< 260	260						
Isophorone	78-59-1	ug/Kg		2,000,000	510,000					< 270	270	< 260	260						
Naphthalene	91-20-3	ug/Kg		17,000	6,000		100,000	100,000	12,000	< 270	270	< 260	260						
Nitrobenzene	98-95-3	ug/Kg		340,000	31,000					< 270	270	< 260	260						
N-Nitrosodimethylamine	62-75-9	ug/Kg		700	700					< 390	390	< 380	380						
N-Nitrosodi-n-propylamine	621-64-7	ug/Kg		300	200					< 200	200	< 200	200						
N-Nitrosodiphenylamine	86-30-6	ug/Kg		390,000	99,000					< 390	390	< 380	380						
Pentachloronitrobenzene	82-68-8	ug/Kg								< 390	390	< 380	380						
Pentachlorophenol	87-86-5	ug/Kg		10,000	3,000		2,400	6,700	800	< 390	390	< 380	380						
Phenanthrene	85-01-8	ug/Kg		300,000,000			100,000	100,000	100,000	< 270	270	< 260	260						
Phenol	108-95-2	ug/Kg		210,000,000	18,000,000		100,000	100,000	330	< 270	270	< 260	260						
Pyrene	129-00-0	ug/Kg		18,000,000	1,700,000		100,000	100,000	100,000	< 270	270	< 260	260						
Pyridine	110-86-1	ug/Kg								< 390	390	< 380	380						
Result Detected																			
RL Exceeds Criteria																			
Result Exceeds Criteria																			

Phoenix Environmental Laboratories, Inc.																			
587 East Middle Turnpike																			
P.O. Box 370	Lab Sample Id									BK10399		BK10400		BK10401		BK10402		BK10403	
Manchester, CT 06040	Collection Date									10/16/2015		10/16/2015		10/16/2015		10/16/2015		10/16/2015	
(860) 645-1102	Client Id									C1		C2		GR1		GR2		TPH	
	Matrix									Solid		Solid		Solid		Solid		Solid	
Project Id : PS 52R																			
	CAS	Units	40 CFR 261.24	NJ-Soil Non Res.	NJ-Soil Res.	NY-GWP	NY-Res.	NY-ResRestrict	NY-UnRestricted	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Pesticides - Soil By SW8081B																			
4,4' -DDD	72-54-8	ug/Kg		13,000	3,000	14,000	2,600	13,000	3.3	< 2.3	2.3	< 2.3	2.3						
4,4' -DDE	72-55-9	ug/Kg		9,000	2,000	17,000	1,800	8,900	3.3	8.2	2.3	9	2.3						
4,4' -DDT	50-29-3	ug/Kg		8,000	2,000	136,000	1,700	7,900	3.3	19	2.3	16	2.3						
a-BHC	319-84-6	ug/Kg		500	100	20	97	480	20	< 7.6	7.6	< 7.6	7.6						
a-Chlordane	5103-71-9	ug/Kg				2,900	910	4,200	94	19	3.8	8.9	3.8						
Aldrin	309-00-2	ug/Kg		200	40	190	19	97	5	< 3.8	3.8	< 3.8	3.8						
b-BHC	319-85-7	ug/Kg		2,000	400	90	72	360	36	< 7.6	7.6	< 7.6	7.6						
Chlordane	57-74-9	ug/Kg		1,000	200					190	38	75	38						
d-BHC	319-86-8	ug/Kg				250	100,000	100,000	40	< 7.6	7.6	< 7.6	7.6						
Dieldrin	60-57-1	ug/Kg		200	40	100	39	200	5	< 3.8	3.8	< 3.8	3.8						
Endosulfan I	959-98-8	ug/Kg				102,000	4,800	24,000	2,400	< 7.6	7.6	< 7.6	7.6						
Endosulfan II	33213-65-9	ug/Kg				102,000	4,800	24,000	2,400	< 7.6	7.6	< 7.6	7.6						
Endosulfan sulfate	1031-07-8	ug/Kg		6,800,000	470,000	1,000,000	4,800	24,000	2,400	< 7.6	7.6	< 7.6	7.6						
Endrin	72-20-8	ug/Kg		340,000	23,000	60	2,200	11,000	14	< 7.6	7.6	< 7.6	7.6						
Endrin aldehyde	7421-93-4	ug/Kg								17	7.6	< 7.6	7.6						
Endrin ketone	53494-70-5	ug/Kg								< 7.6	7.6	< 7.6	7.6						
g-BHC	58-89-9	ug/Kg		2,000	400	100	280	1,300	100	< 1.5	1.5	< 1.5	1.5						
g-Chlordane	5103-74-2	ug/Kg								33	3.8	15	3.8						
Heptachlor	76-44-8	ug/Kg		700	100	380	420	2,100	42	< 7.6	7.6	< 7.6	7.6						
Heptachlor epoxide	1024-57-3	ug/Kg		300	70					< 7.6	7.6	< 7.6	7.6						
Methoxychlor	72-43-5	ug/Kg		5,700,000	390,000					< 38	38	< 38	38						
Toxaphene	8001-35-2	ug/Kg		3,000	600					< 150	150	< 150	150						
Chlorinated Herbicides By SW8151A																			
2,4,5-T	93-76-5	ug/Kg								< 49	49	< 48	48						
2,4,5-TP (Silvex)	93-72-1	ug/Kg				3,800	58,000	100,000	3,800	< 49	49	< 48	48						
2,4-D	94-75-7	ug/Kg								< 49	49	< 48	48						
2,4-DB	94-82-6	ug/Kg								< 490	490	< 480	480						
Dalapon	75-99-0	ug/Kg								< 49	49	< 48	48						
Dicamba	1918-00-9	ug/Kg								< 98	98	< 95	95						
Dichloroprop	120-36-5	ug/Kg								< 49	49	< 48	48						
Dinoseb	88-85-7	ug/Kg								< 98	98	< 95	95						
Result Detected																			
RL Exceeds Criteria																			
Result Exceeds Criteria																			

Appendix C: Soil Testing Results from ELAP Certified Environmental Laboratory (official report)

PHOENIX
Environmental Laboratories, Inc.

Tuesday, October 27, 2015

Attn: Ariel Czemerinski
AMC Engineering
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753

Project ID: PS 52R
Sample ID#s: BK10399 - BK10403

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

October 27, 2015

SDG I.D.: GBK10399

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

BK10401 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BK10402 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 27, 2015

FOR: Attn: Ariel Czemerinski
AMC Engineering
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/16/15	9:00
Location Code:	AMC-ENG	Received by:	SW	10/19/15	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK10399
Phoenix ID: BK10399

Project ID: PS 52R
Client ID: C1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35		mg/Kg	1	10/20/15	LK	SW6010C
Aluminum	12300	52		mg/Kg	10	10/20/15	LK	SW6010C
Arsenic	5.6	0.7		mg/Kg	1	10/20/15	LK	SW6010C
Barium	80.1	0.35		mg/Kg	1	10/20/15	LK	SW6010C
Beryllium	0.56	0.28		mg/Kg	1	10/20/15	LK	SW6010C
Calcium	4150	5.2		mg/Kg	1	10/20/15	LK	SW6010C
Cadmium	0.86	0.35		mg/Kg	1	10/20/15	LK	SW6010C
Cobalt	14.6	0.35		mg/Kg	1	10/20/15	LK	SW6010C
Chromium	32.0	0.35		mg/Kg	1	10/20/15	LK	SW6010C
Copper	34.1	0.35		mg/kg	1	10/20/15	LK	SW6010C
Iron	19500	52		mg/Kg	10	10/20/15	LK	SW6010C
Mercury	0.13	0.03		mg/Kg	1	10/20/15	RS	SW7471B
Potassium	1240	5.2		mg/Kg	1	10/20/15	LK	SW6010C
Magnesium	12700	52		mg/Kg	10	10/20/15	LK	SW6010C
Manganese	416	3.5		mg/Kg	10	10/20/15	LK	SW6010C
Sodium	148	5.2		mg/Kg	1	10/20/15	LK	SW6010C
Nickel	204	3.5		mg/Kg	10	10/20/15	LK	SW6010C
Lead	85.9	0.35		mg/Kg	1	10/20/15	LK	SW6010C
Antimony	< 3.5	3.5		mg/Kg	1	10/20/15	LK	SW6010C
Selenium	< 1.4	1.4		mg/Kg	1	10/20/15	LK	SW6010C
TCLP Silver	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Arsenic	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Barium	0.50	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Cadmium	< 0.050	0.050		mg/L	1	10/20/15	LK	SW6010C
TCLP Chromium	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Mercury	< 0.0002	0.0002		mg/L	1	10/21/15	RS	SW7470A
TCLP Lead	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Selenium	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C

Project ID: PS 52R
Client ID: C1

Phoenix I.D.: BK10399

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.1	3.1		mg/Kg	1	10/20/15	LK	SW6010C	
TCLP Metals Digestion	Completed					10/20/15	I/I	SW3005A	
Vanadium	29.3	0.35		mg/Kg	1	10/20/15	LK	SW6010C	
Zinc	108	0.35		mg/Kg	1	10/20/15	LK	SW6010C	
Percent Solid	85			%		10/19/15	I	SW846-%Solid	
Corrosivity	Negative			Pos/Neg	1	10/19/15	DH/KDB	SW846-Corr	1
Flash Point	>200	200		Degree F	1	10/20/15	Y	SW1010A	
Ignitability	Passed	140		degree F	1	10/20/15	Y	SW846-Ignit	1
pH - Soil	7.38	0.10		pH Units	1	10/19/15 23:30	DH/KDB	SW9045	1
Reactivity Cyanide	< 5.9	5.9		mg/Kg	1	10/20/15	BS/GD	SW846-React	1
Reactivity Sulfide	< 20	20		mg/Kg	1	10/20/15	BS/GD	SW-7.3	1
Reactivity	Negative			Pos/Neg	1	10/20/15	BS/GD	SW846-React	1
Total Sulfide	< 12	12		mg/Kg	1	10/22/15	GD	SW9030/9034	
Total Cyanide (SW9010C Distill.)	< 0.53	0.53		mg/Kg	1	10/19/15	O/GD	SW9012B	
Soil Extraction for PCB	Completed					10/21/15	BC	SW3545A	
Soil Extraction for Pesticide	Completed					10/19/15	BC/V	SW3545A	
Soil Extraction for SVOA	Completed					10/19/15	JJ/CKV	SW3545A	
Mercury Digestion	Completed					10/20/15	I/I	SW7471B	
Paint Filter Test	Passed			PASS/FAIL		10/19/15	J	SW9095B	
Soil Extraction for Herbicide	Completed					10/19/15	QQ/D	SW8151A	
TCLP Digestion Mercury	Completed					10/21/15	D/D	SW7470A	
TCLP Extraction for Metals	Completed					10/19/15	I	SW1311	
Total Metals Digest	Completed					10/19/15	G/AG	SW3050B	
Chlorinated Herbicides									
2,4,5-T	ND	49		ug/Kg	10	10/21/15	BB	SW8151A	
2,4,5-TP (Silvex)	ND	49		ug/Kg	10	10/21/15	BB	SW8151A	
2,4-D	ND	49		ug/Kg	10	10/21/15	BB	SW8151A	
2,4-DB	ND	490		ug/Kg	10	10/21/15	BB	SW8151A	
Dalapon	ND	49		ug/Kg	10	10/21/15	BB	SW8151A	
Dicamba	ND	98		ug/Kg	10	10/21/15	BB	SW8151A	
Dichloroprop	ND	49		ug/Kg	10	10/21/15	BB	SW8151A	
Dinoseb	ND	98		ug/Kg	10	10/21/15	BB	SW8151A	
QA/QC Surrogates									
% DCAA	52			%	10	10/21/15	BB	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1221	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1232	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1242	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1248	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1254	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1260	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1262	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1268	ND	78		ug/Kg	2	10/20/15	KCA	SW8082A	
QA/QC Surrogates									
% DCBP	87			%	2	10/20/15	KCA	30 - 150 %	
% TCMX	83			%	2	10/20/15	KCA	30 - 150 %	

Project ID: PS 52R
Client ID: C1

Phoenix I.D.: BK10399

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Pesticides - Soil								
4,4' -DDD	ND	2.3		ug/Kg	2	10/23/15	KCA	SW8081B
4,4' -DDE	8.2	2.3		ug/Kg	2	10/23/15	KCA	SW8081B
4,4' -DDT	19	2.3		ug/Kg	2	10/23/15	KCA	SW8081B
a-BHC	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
a-Chlordane	19	3.8		ug/Kg	2	10/23/15	KCA	SW8081B
Aldrin	ND	3.8		ug/Kg	2	10/23/15	KCA	SW8081B
b-BHC	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Chlordane	190	38		ug/Kg	2	10/23/15	KCA	SW8081B
d-BHC	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Dieldrin	ND	3.8		ug/Kg	2	10/23/15	KCA	SW8081B
Endosulfan I	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endosulfan II	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endosulfan sulfate	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endrin	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endrin aldehyde	17	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endrin ketone	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
g-BHC	ND	1.5		ug/Kg	2	10/23/15	KCA	SW8081B
g-Chlordane	33	3.8		ug/Kg	2	10/23/15	KCA	SW8081B
Heptachlor	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Heptachlor epoxide	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Methoxychlor	ND	38		ug/Kg	2	10/23/15	KCA	SW8081B
Toxaphene	ND	150		ug/Kg	2	10/23/15	KCA	SW8081B
QA/QC Surrogates								
% DCBP	93			%	2	10/23/15	KCA	30 - 150 %
% TCMX	61			%	2	10/23/15	KCA	30 - 150 %
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
1,2-Dichlorobenzene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	390		ug/Kg	1	10/20/15	DD	SW8270D
1,3-Dichlorobenzene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
1,4-Dichlorobenzene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2,4-Dichlorophenol	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2,4-Dimethylphenol	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2,4-Dinitrophenol	ND	630		ug/Kg	1	10/20/15	DD	SW8270D
2,4-Dinitrotoluene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2,6-Dinitrotoluene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2-Chloronaphthalene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2-Chlorophenol	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2-Methylnaphthalene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
2-Nitroaniline	ND	630		ug/Kg	1	10/20/15	DD	SW8270D
2-Nitrophenol	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	390		ug/Kg	1	10/20/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	270		ug/Kg	1	10/20/15	DD	SW8270D

Project ID: PS 52R
Client ID: C1

Phoenix I.D.: BK10399

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
3-Nitroaniline	ND	630		ug/Kg	1	10/20/15	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1100		ug/Kg	1	10/20/15	DD	SW8270D	
4-Bromophenyl phenyl ether	ND	390		ug/Kg	1	10/20/15	DD	SW8270D	
4-Chloro-3-methylphenol	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
4-Chloroaniline	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
4-Nitroaniline	ND	630		ug/Kg	1	10/20/15	DD	SW8270D	
4-Nitrophenol	ND	1100		ug/Kg	1	10/20/15	DD	SW8270D	
Acenaphthene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Acenaphthylene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Acetophenone	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Aniline	ND	1100		ug/Kg	1	10/20/15	DD	SW8270D	
Anthracene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Benz(a)anthracene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Benzidine	ND	470		ug/Kg	1	10/20/15	DD	SW8270D	
Benzo(a)pyrene	ND	200		ug/Kg	1	10/20/15	DD	SW8270D	
Benzo(b)fluoranthene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Benzo(ghi)perylene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Benzo(k)fluoranthene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Benzoic acid	ND	1100		ug/Kg	1	10/20/15	DD	SW8270D	1
Benzyl butyl phthalate	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	390		ug/Kg	1	10/20/15	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	630	270		ug/Kg	1	10/20/15	DD	SW8270D	
Carbazole	ND	590		ug/Kg	1	10/20/15	DD	SW8270D	
Chrysene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Dibenz(a,h)anthracene	ND	200		ug/Kg	1	10/20/15	DD	SW8270D	
Dibenzofuran	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Diethyl phthalate	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Dimethylphthalate	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Di-n-butylphthalate	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Di-n-octylphthalate	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Fluoranthene	300	270		ug/Kg	1	10/20/15	DD	SW8270D	
Fluorene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Hexachlorobenzene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Hexachlorobutadiene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Hexachlorocyclopentadiene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Hexachloroethane	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Isophorone	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Naphthalene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
Nitrobenzene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	
N-Nitrosodimethylamine	ND	390		ug/Kg	1	10/20/15	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	200		ug/Kg	1	10/20/15	DD	SW8270D	
N-Nitrosodiphenylamine	ND	390		ug/Kg	1	10/20/15	DD	SW8270D	
Pentachloronitrobenzene	ND	390		ug/Kg	1	10/20/15	DD	SW8270D	
Pentachlorophenol	ND	390		ug/Kg	1	10/20/15	DD	SW8270D	
Phenanthrene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D	

Project ID: PS 52R
Client ID: C1

Phoenix I.D.: BK10399

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
Pyrene	ND	270		ug/Kg	1	10/20/15	DD	SW8270D
Pyridine	ND	390		ug/Kg	1	10/20/15	DD	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	77			%	1	10/20/15	DD	30 - 130 %
% 2-Fluorobiphenyl	67			%	1	10/20/15	DD	30 - 130 %
% 2-Fluorophenol	77			%	1	10/20/15	DD	30 - 130 %
% Nitrobenzene-d5	73			%	1	10/20/15	DD	30 - 130 %
% Phenol-d5	86			%	1	10/20/15	DD	30 - 130 %
% Terphenyl-d14	74			%	1	10/20/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Corrosivity is based solely on the pH analysis performed above.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide.This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 27, 2015
Reviewed and Released by: Sarah Bell, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 27, 2015

FOR: Attn: Ariel Czemerinski
AMC Engineering
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/16/15	9:00
Location Code:	AMC-ENG	Received by:	SW	10/19/15	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK10399
Phoenix ID: BK10400

Project ID: PS 52R
Client ID: C2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36		mg/Kg	1	10/20/15	LK	SW6010C
Aluminum	12800	54		mg/Kg	10	10/20/15	LK	SW6010C
Arsenic	5.7	0.7		mg/Kg	1	10/20/15	LK	SW6010C
Barium	79.7	0.36		mg/Kg	1	10/20/15	LK	SW6010C
Beryllium	0.61	0.29		mg/Kg	1	10/20/15	LK	SW6010C
Calcium	4150	5.4		mg/Kg	1	10/20/15	LK	SW6010C
Cadmium	0.73	0.36		mg/Kg	1	10/20/15	LK	SW6010C
Cobalt	13.9	0.36		mg/Kg	1	10/20/15	LK	SW6010C
Chromium	33.7	0.36		mg/Kg	1	10/20/15	LK	SW6010C
Copper	33.6	0.36		mg/kg	1	10/20/15	LK	SW6010C
Iron	21500	54		mg/Kg	10	10/20/15	LK	SW6010C
Mercury	0.13	0.03		mg/Kg	1	10/20/15	RS	SW7471B
Potassium	1530	5.4		mg/Kg	1	10/20/15	LK	SW6010C
Magnesium	12500	54		mg/Kg	10	10/20/15	LK	SW6010C
Manganese	409	3.6		mg/Kg	10	10/20/15	LK	SW6010C
Sodium	205	5.4		mg/Kg	1	10/20/15	LK	SW6010C
Nickel	167	3.6		mg/Kg	10	10/20/15	LK	SW6010C
Lead	63.4	0.36		mg/Kg	1	10/20/15	LK	SW6010C
Antimony	< 3.6	3.6		mg/Kg	1	10/20/15	LK	SW6010C
Selenium	< 1.4	1.4		mg/Kg	1	10/20/15	LK	SW6010C
TCLP Silver	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Arsenic	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Barium	0.49	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Cadmium	< 0.050	0.050		mg/L	1	10/20/15	LK	SW6010C
TCLP Chromium	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Mercury	< 0.0002	0.0002		mg/L	1	10/21/15	RS	SW7470A
TCLP Lead	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C
TCLP Selenium	< 0.10	0.10		mg/L	1	10/20/15	LK	SW6010C

Project ID: PS 52R
Client ID: C2

Phoenix I.D.: BK10400

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.2	3.2		mg/Kg	1	10/20/15	LK	SW6010C	
TCLP Metals Digestion	Completed					10/20/15	I/I	SW3005A	
Vanadium	34.5	0.36		mg/Kg	1	10/20/15	LK	SW6010C	
Zinc	92.3	0.36		mg/Kg	1	10/20/15	LK	SW6010C	
Percent Solid	87			%		10/19/15	I	SW846-%Solid	
Corrosivity	Negative			Pos/Neg	1	10/19/15	DH/KDB	SW846-Corr	1
Flash Point	>200	200		Degree F	1	10/20/15	Y	SW1010A	
Ignitability	Passed	140		degree F	1	10/20/15	Y	SW846-Ignit	1
pH - Soil	7.89	0.10		pH Units	1	10/19/15 23:30	DH/KDB	SW9045	1
Reactivity Cyanide	< 5.7	5.7		mg/Kg	1	10/20/15	BS/GD	SW846-React	1
Reactivity Sulfide	< 20	20		mg/Kg	1	10/20/15	BS/GD	SW-7.3	1
Reactivity	Negative			Pos/Neg	1	10/20/15	BS/GD	SW846-React	1
Total Sulfide	< 11	11		mg/Kg	1	10/22/15	GD	SW9030/9034	
Total Cyanide (SW9010C Distill.)	< 0.48	0.48		mg/Kg	1	10/19/15	O/GD	SW9012B	
Soil Extraction for PCB	Completed					10/21/15	BC	SW3545A	
Soil Extraction for Pesticide	Completed					10/19/15	BC/V	SW3545A	
Soil Extraction for SVOA	Completed					10/19/15	JJ/CKV	SW3545A	
Mercury Digestion	Completed					10/20/15	I/I	SW7471B	
Soil Extraction for Herbicide	Completed					10/19/15	QQ/D	SW8151A	
TCLP Digestion Mercury	Completed					10/21/15	D/D	SW7470A	
TCLP Extraction for Metals	Completed					10/19/15	I	SW1311	
Total Metals Digest	Completed					10/19/15	G/AG	SW3050B	
Chlorinated Herbicides									
2,4,5-T	ND	48		ug/Kg	10	10/21/15	BB	SW8151A	
2,4,5-TP (Silvex)	ND	48		ug/Kg	10	10/21/15	BB	SW8151A	
2,4-D	ND	48		ug/Kg	10	10/21/15	BB	SW8151A	
2,4-DB	ND	480		ug/Kg	10	10/21/15	BB	SW8151A	
Dalapon	ND	48		ug/Kg	10	10/21/15	BB	SW8151A	
Dicamba	ND	95		ug/Kg	10	10/21/15	BB	SW8151A	
Dichloroprop	ND	48		ug/Kg	10	10/21/15	BB	SW8151A	
Dinoseb	ND	95		ug/Kg	10	10/21/15	BB	SW8151A	
QA/QC Surrogates									
% DCAA	60			%	10	10/21/15	BB	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1221	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1232	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1242	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1248	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1254	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1260	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1262	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
PCB-1268	ND	75		ug/Kg	2	10/20/15	KCA	SW8082A	
QA/QC Surrogates									
% DCBP	101			%	2	10/20/15	KCA	30 - 150 %	
% TCMX	85			%	2	10/20/15	KCA	30 - 150 %	

Project ID: PS 52R
Client ID: C2

Phoenix I.D.: BK10400

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Pesticides - Soil								
4,4' -DDD	ND	2.3		ug/Kg	2	10/23/15	KCA	SW8081B
4,4' -DDE	9.0	2.3		ug/Kg	2	10/23/15	KCA	SW8081B
4,4' -DDT	16	2.3		ug/Kg	2	10/23/15	KCA	SW8081B
a-BHC	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
a-Chlordane	8.9	3.8		ug/Kg	2	10/23/15	KCA	SW8081B
Aldrin	ND	3.8		ug/Kg	2	10/23/15	KCA	SW8081B
b-BHC	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Chlordane	75	38		ug/Kg	2	10/23/15	KCA	SW8081B
d-BHC	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Dieldrin	ND	3.8		ug/Kg	2	10/23/15	KCA	SW8081B
Endosulfan I	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endosulfan II	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endosulfan sulfate	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endrin	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endrin aldehyde	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Endrin ketone	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
g-BHC	ND	1.5		ug/Kg	2	10/23/15	KCA	SW8081B
g-Chlordane	15	3.8		ug/Kg	2	10/23/15	KCA	SW8081B
Heptachlor	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Heptachlor epoxide	ND	7.6		ug/Kg	2	10/23/15	KCA	SW8081B
Methoxychlor	ND	38		ug/Kg	2	10/23/15	KCA	SW8081B
Toxaphene	ND	150		ug/Kg	2	10/23/15	KCA	SW8081B
QA/QC Surrogates								
% DCBP	90			%	2	10/23/15	KCA	30 - 150 %
% TCMX	71			%	2	10/23/15	KCA	30 - 150 %
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
1,2-Dichlorobenzene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	380		ug/Kg	1	10/20/15	DD	SW8270D
1,3-Dichlorobenzene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
1,4-Dichlorobenzene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2,4-Dichlorophenol	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2,4-Dimethylphenol	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2,4-Dinitrophenol	ND	600		ug/Kg	1	10/20/15	DD	SW8270D
2,4-Dinitrotoluene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2,6-Dinitrotoluene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2-Chloronaphthalene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2-Chlorophenol	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2-Methylnaphthalene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
2-Nitroaniline	ND	600		ug/Kg	1	10/20/15	DD	SW8270D
2-Nitrophenol	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380		ug/Kg	1	10/20/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	260		ug/Kg	1	10/20/15	DD	SW8270D

Project ID: PS 52R
Client ID: C2

Phoenix I.D.: BK10400

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
3-Nitroaniline	ND	600		ug/Kg	1	10/20/15	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1100		ug/Kg	1	10/20/15	DD	SW8270D	
4-Bromophenyl phenyl ether	ND	380		ug/Kg	1	10/20/15	DD	SW8270D	
4-Chloro-3-methylphenol	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
4-Chloroaniline	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
4-Nitroaniline	ND	600		ug/Kg	1	10/20/15	DD	SW8270D	
4-Nitrophenol	ND	1100		ug/Kg	1	10/20/15	DD	SW8270D	
Acenaphthene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Acenaphthylene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Acetophenone	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Aniline	ND	1100		ug/Kg	1	10/20/15	DD	SW8270D	
Anthracene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Benz(a)anthracene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Benzidine	ND	450		ug/Kg	1	10/20/15	DD	SW8270D	
Benzo(a)pyrene	ND	200		ug/Kg	1	10/20/15	DD	SW8270D	
Benzo(b)fluoranthene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Benzo(ghi)perylene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Benzo(k)fluoranthene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Benzoic acid	ND	1100		ug/Kg	1	10/20/15	DD	SW8270D	1
Benzyl butyl phthalate	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	380		ug/Kg	1	10/20/15	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	520	260		ug/Kg	1	10/20/15	DD	SW8270D	
Carbazole	ND	560		ug/Kg	1	10/20/15	DD	SW8270D	
Chrysene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Dibenz(a,h)anthracene	ND	200		ug/Kg	1	10/20/15	DD	SW8270D	
Dibenzofuran	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Diethyl phthalate	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Dimethylphthalate	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Di-n-butylphthalate	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Di-n-octylphthalate	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Fluoranthene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Fluorene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Hexachlorobenzene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Hexachlorobutadiene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Hexachlorocyclopentadiene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Hexachloroethane	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Isophorone	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Naphthalene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
Nitrobenzene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	
N-Nitrosodimethylamine	ND	380		ug/Kg	1	10/20/15	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	200		ug/Kg	1	10/20/15	DD	SW8270D	
N-Nitrosodiphenylamine	ND	380		ug/Kg	1	10/20/15	DD	SW8270D	
Pentachloronitrobenzene	ND	380		ug/Kg	1	10/20/15	DD	SW8270D	
Pentachlorophenol	ND	380		ug/Kg	1	10/20/15	DD	SW8270D	
Phenanthrene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D	

Project ID: PS 52R
Client ID: C2

Phoenix I.D.: BK10400

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
Pyrene	ND	260		ug/Kg	1	10/20/15	DD	SW8270D
Pyridine	ND	380		ug/Kg	1	10/20/15	DD	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	79			%	1	10/20/15	DD	30 - 130 %
% 2-Fluorobiphenyl	73			%	1	10/20/15	DD	30 - 130 %
% 2-Fluorophenol	79			%	1	10/20/15	DD	30 - 130 %
% Nitrobenzene-d5	73			%	1	10/20/15	DD	30 - 130 %
% Phenol-d5	85			%	1	10/20/15	DD	30 - 130 %
% Terphenyl-d14	71			%	1	10/20/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Corrosivity is based solely on the pH analysis performed above.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide.This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 27, 2015
Reviewed and Released by: Sarah Bell, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 27, 2015

FOR: Attn: Ariel Czemerinski
AMC Engineering
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/16/15	9:00
Location Code:	AMC-ENG	Received by:	SW	10/19/15	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK10399
Phoenix ID: BK10401

Project ID: PS 52R
Client ID: GR1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92			%		10/19/15	I	SW846-%Solid
Volatiles								
1,1,1-Trichloroethane	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
1,1-Dichloroethane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
1,1-Dichloroethene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dibromoethane	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dichloroethane	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dichloropropane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
2-Hexanone	ND	27	5.4	ug/Kg	1	10/20/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	5.4	ug/Kg	1	10/20/15	JLI	SW8260C
Acetone	ND	50	5.4	ug/Kg	1	10/20/15	JLI	SW8260C
Benzene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Bromochloromethane	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Bromodichloromethane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Bromoform	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Bromomethane	ND	5.4	2.2	ug/Kg	1	10/20/15	JLI	SW8260C
Carbon Disulfide	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Carbon tetrachloride	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Chlorobenzene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C

Project ID: PS 52R
Client ID: GR1

Phoenix I.D.: BK10401

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Chloroethane	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Chloroform	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Chloromethane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Cyclohexane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Dibromochloromethane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Dichlorodifluoromethane	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Ethylbenzene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Isopropylbenzene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
m&p-Xylene	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Methyl ethyl ketone	ND	32	5.4	ug/Kg	1	10/20/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Methylacetate	ND	5.4	2.7	ug/Kg	1	10/20/15	JLI	SW8260C
Methylcyclohexane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Methylene chloride	ND	5.4	5.4	ug/Kg	1	10/20/15	JLI	SW8260C
o-Xylene	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Styrene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Tetrachloroethene	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Toluene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Total Xylenes	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Trichloroethene	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Trichlorofluoromethane	ND	5.4	1.1	ug/Kg	1	10/20/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
Vinyl chloride	ND	5.4	0.54	ug/Kg	1	10/20/15	JLI	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	98			%	1	10/20/15	JLI	70 - 130 %
% Bromofluorobenzene	87			%	1	10/20/15	JLI	70 - 130 %
% Dibromofluoromethane	102			%	1	10/20/15	JLI	70 - 130 %
% Toluene-d8	95			%	1	10/20/15	JLI	70 - 130 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	22		ug/Kg	1	10/20/15	JLI	SW8260C
Acrolein	ND	22		ug/Kg	1	10/20/15	JLI	SW8260C
Acrylonitrile	ND	22		ug/Kg	1	10/20/15	JLI	SW8260C
Tert-butyl alcohol	ND	110		ug/Kg	1	10/20/15	JLI	SW8260C
Volatile Library Search Top 10	Completed					10/20/15	JLI	

Project ID: PS 52R
Client ID: GR1

Phoenix I.D.: BK10401

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 27, 2015
Reviewed and Released by: Sarah Bell, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 27, 2015

FOR: Attn: Ariel Czemerinski
AMC Engineering
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/16/15	9:00
Location Code:	AMC-ENG	Received by:	SW	10/19/15	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK10399
Phoenix ID: BK10402

Project ID: PS 52R
Client ID: GR2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86			%		10/19/15	I	SW846-%Solid
Volatiles								
1,1,1-Trichloroethane	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
1,1-Dichloroethane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
1,1-Dichloroethene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dibromoethane	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dichloroethane	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
1,2-Dichloropropane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
2-Hexanone	ND	29	5.9	ug/Kg	1	10/20/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	5.9	ug/Kg	1	10/20/15	JLI	SW8260C
Acetone	ND	50	5.9	ug/Kg	1	10/20/15	JLI	SW8260C
Benzene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Bromochloromethane	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Bromodichloromethane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Bromoform	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Bromomethane	ND	5.9	2.3	ug/Kg	1	10/20/15	JLI	SW8260C
Carbon Disulfide	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Carbon tetrachloride	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Chlorobenzene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C

Project ID: PS 52R
Client ID: GR2

Phoenix I.D.: BK10402

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Chloroethane	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Chloroform	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Chloromethane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Cyclohexane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Dibromochloromethane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Dichlorodifluoromethane	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Ethylbenzene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Isopropylbenzene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
m&p-Xylene	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Methyl ethyl ketone	ND	35	5.9	ug/Kg	1	10/20/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Methylacetate	ND	5.9	2.9	ug/Kg	1	10/20/15	JLI	SW8260C
Methylcyclohexane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Methylene chloride	ND	5.9	5.9	ug/Kg	1	10/20/15	JLI	SW8260C
o-Xylene	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Styrene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Tetrachloroethene	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Toluene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Total Xylenes	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Trichloroethene	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Trichlorofluoromethane	ND	5.9	1.2	ug/Kg	1	10/20/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
Vinyl chloride	ND	5.9	0.59	ug/Kg	1	10/20/15	JLI	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	97			%	1	10/20/15	JLI	70 - 130 %
% Bromofluorobenzene	88			%	1	10/20/15	JLI	70 - 130 %
% Dibromofluoromethane	97			%	1	10/20/15	JLI	70 - 130 %
% Toluene-d8	98			%	1	10/20/15	JLI	70 - 130 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	23		ug/Kg	1	10/20/15	JLI	SW8260C
Acrolein	ND	23		ug/Kg	1	10/20/15	JLI	SW8260C
Acrylonitrile	ND	23		ug/Kg	1	10/20/15	JLI	SW8260C
Tert-butyl alcohol	ND	120		ug/Kg	1	10/20/15	JLI	SW8260C
Volatile Library Search Top 10	Completed					10/20/15	JLI	

Project ID: PS 52R
Client ID: GR2

Phoenix I.D.: BK10402

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 27, 2015
Reviewed and Released by: Sarah Bell, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 27, 2015

FOR: Attn: Ariel Czemerinski
AMC Engineering
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/16/15	9:00
Location Code:	AMC-ENG	Received by:	SW	10/19/15	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK10399
Phoenix ID: BK10403

Project ID: PS 52R
Client ID: TPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		10/19/15	I	SW846-%Solid
Extraction of TPH SM	Completed				10/19/15	CC/CK	SW3545A
TPH (C10-C28) Extractable Products							
Diesel Range Organics (C10-C28)	76	58	mg/Kg	1	10/20/15	JRB	8015D DRO
QA/QC Surrogates							
% n-Pentacosane	86		%	1	10/20/15	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The TPH (C10-C28) is quantitated using an alkane standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 27, 2015
Reviewed and Released by: Sarah Bell, Project Manager

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID
GR1

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK10399

Matrix:(soil/water) SOIL Lab Sample ID: BK10401

Sample wt/vol: 5.04 (g/mL) g Lab File ID: 1019L43.D

Level: (low/med) PPL Date Received: 10/19/15

% Moisture: not dec. 8 Date Analyzed: 10/20/15

GC Column: rtx-vms ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

GR2

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK10399

Matrix:(soil/water) SOIL Lab Sample ID: BK10402

Sample wt/vol: 4.94 (g/mL) g Lab File ID: 1019L42.D

Level: (low/med) PPL Date Received: 10/19/15

% Moisture: not dec. 14 Date Analyzed: 10/20/15

GC Column: rtx-vms ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

October 27, 2015

QA/QC Data

SDG I.D.: GBK10399

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 324090 (mg/L), QC Sample No: BK10148 (BK10399, BK10400)														
ICP Metals - TCLP Extraction														
Arsenic	BRL	0.10	<0.10	<0.10	NC	108	108	0.0	95.5	98.8	3.4	75 - 125	20	
Barium	BRL	0.10	0.17	0.15	NC	101	99.8	1.2	95.1	98.6	3.6	75 - 125	20	
Cadmium	BRL	0.050	<0.050	<0.050	NC	100	101	1.0	91.8	94.2	2.6	75 - 125	20	
Chromium	BRL	0.10	<0.10	<0.10	NC	103	104	1.0	94.5	98.0	3.6	75 - 125	20	
Lead	BRL	0.10	0.02	<0.10	NC	104	105	1.0	93.2	97.1	4.1	75 - 125	20	
Selenium	BRL	0.10	<0.10	<0.10	NC	113	113	0.0	96.0	100	4.1	75 - 125	20	
Silver	BRL	0.10	<0.10	<0.10	NC	113	113	0.0	96.2	100	3.9	75 - 125	20	
QA/QC Batch 324034 (mg/kg), QC Sample No: BK10389 (BK10399, BK10400)														
ICP Metals - Soil														
Aluminum	BRL	4.9	9100	9450	3.80	91.6	93.2	1.7	NC	NC	NC	75 - 125	30	
Antimony	BRL	3.3	<1.8	<3.5	NC	94.2	98.5	4.5	77.2	76.7	0.6	75 - 125	30	
Arsenic	BRL	0.66	3.9	3.71	5.00	89.5	91.3	2.0	85.4	85.7	0.4	75 - 125	30	
Barium	BRL	0.33	72.3	114	44.8	93.4	95.6	2.3	97.6	110	11.9	75 - 125	30	r
Beryllium	BRL	0.26	0.45	0.47	NC	91.2	92.4	1.3	89.7	91.0	1.4	75 - 125	30	
Cadmium	BRL	0.33	0.23	0.23	NC	85.9	87.4	1.7	86.1	85.4	0.8	75 - 125	30	
Calcium	BRL	4.9	1480	4210	96.0	93.8	94.5	0.7	NC	NC	NC	75 - 125	30	r
Chromium	BRL	0.33	20.5	21.0	2.40	89.4	91.4	2.2	94.3	92.7	1.7	75 - 125	30	
Cobalt	BRL	0.33	7.44	7.29	2.00	89.8	92.6	3.1	90.4	90.4	0.0	75 - 125	30	
Copper	BRL	0.33	27.5	25.9	6.00	93.8	94.6	0.8	101	102	1.0	75 - 125	30	
Iron	BRL	4.9	19600	18800	4.20	92.9	91.8	1.2	NC	NC	NC	75 - 125	30	
Lead	BRL	0.33	118	262	75.8	89.7	92.5	3.1	85.3	87.7	2.8	75 - 125	30	r
Magnesium	BRL	4.9	1750	1800	2.80	90.4	95.1	5.1	NC	NC	NC	75 - 125	30	
Manganese	BRL	0.33	265	293	10.0	91.4	94.1	2.9	>130	>130	NC	75 - 125	30	m
Nickel	BRL	0.33	12.8	12.7	0.80	89.4	92.7	3.6	90.2	89.2	1.1	75 - 125	30	
Potassium	BRL	4.9	1130	1170	3.50	99.9	99.0	0.9	>130	>130	NC	75 - 125	30	m
Selenium	BRL	1.3	<1.4	<1.4	NC	88.5	90.9	2.7	74.5	75.1	0.8	75 - 125	30	
Silver	BRL	0.33	<0.36	<0.35	NC	92.8	96.0	3.4	93.1	93.3	0.2	75 - 125	30	
Sodium	BRL	4.9	94	147	44.0	96.4	95.8	0.6	>130	>130	NC	75 - 125	30	m,r
Thallium	BRL	3.0	<1.4	<3.2	NC	88.4	92.0	4.0	91.3	91.0	0.3	75 - 125	30	
Vanadium	BRL	0.33	28.2	28.8	2.10	90.0	92.6	2.8	94.8	92.2	2.8	75 - 125	30	
Zinc	BRL	0.33	52.8	74.9	34.6	91.3	94.9	3.9	93.1	94.7	1.7	75 - 125	30	r
QA/QC Batch 324088 (mg/kg), QC Sample No: BK10534 (BK10399, BK10400)														
Mercury - Soil	BRL	0.06	<0.03	<0.03	NC	97.3	95.5	1.9	104	101	2.9	70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 324228 (mg/L), QC Sample No: BK11139 (BK10399, BK10400)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	108	106	1.9	100	98.0	2.0	70 - 130	20	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														

QA/QC Data

SDG I.D.: GBK10399

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

QA/QC Report

October 27, 2015

QA/QC Data

SDG I.D.: GBK10399

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 324091 (PH), QC Sample No: BK10148 (BK10399, BK10400)													
pH - Soil			4.85	4.90	1.00	99.8						85 - 115	20
QA/QC Batch 324086 (Degree F), QC Sample No: BK10172 (BK10399, BK10400)													
Flash Point			>200	>200	NC	100						85 - 115	30
QA/QC Batch 324064 (mg/Kg), QC Sample No: BK10389 50X (BK10399, BK10400)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.59	<0.49	NC	99.2			97.5			85 - 115	30
QA/QC Batch 324085 (mg/Kg), QC Sample No: BK10391 5X (BK10399, BK10400)													
Reactivity Cyanide	BRL	0.05	<5.7	<5.7	NC	98.8						85 - 115	30
QA/QC Batch 324377 (mg/Kg), QC Sample No: BK10399 (BK10399, BK10400)													
Total Sulfide	BRL	10	<12	<12	NC	102						85 - 115	30

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

October 27, 2015

QA/QC Data

SDG I.D.: GBK10399

QA/QC Batch 323901 (ug/kg), QC Sample No: BK09928 (BK10399, BK10400)

Semivolatiles - Solid

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4,5-Tetrachlorobenzene	ND	230	63	66	4.7	65	66	1.5	30 - 130	30	
1,2,4-Trichlorobenzene	ND	230	61	64	4.8	62	65	4.7	30 - 130	30	
1,2-Dichlorobenzene	ND	180	55	61	10.3	55	60	8.7	30 - 130	30	
1,2-Diphenylhydrazine	ND	230	70	71	1.4	67	70	4.4	30 - 130	30	
1,3-Dichlorobenzene	ND	230	53	59	10.7	52	56	7.4	30 - 130	30	
1,4-Dichlorobenzene	ND	230	55	60	8.7	53	58	9.0	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	76	78	2.6	72	79	9.3	30 - 130	30	
2,4,6-Trichlorophenol	ND	130	75	74	1.3	71	76	6.8	30 - 130	30	
2,4-Dichlorophenol	ND	130	69	69	0.0	69	72	4.3	30 - 130	30	
2,4-Dimethylphenol	ND	230	65	66	1.5	69	72	4.3	30 - 130	30	
2,4-Dinitrophenol	ND	230	21	13	47.1	28	15	60.5	30 - 130	30	l,m,r
2,4-Dinitrotoluene	ND	130	73	79	7.9	71	75	5.5	30 - 130	30	
2,6-Dinitrotoluene	ND	130	74	77	4.0	74	76	2.7	30 - 130	30	
2-Chloronaphthalene	ND	230	69	70	1.4	68	73	7.1	30 - 130	30	
2-Chlorophenol	ND	230	67	70	4.4	64	72	11.8	30 - 130	30	
2-Methylnaphthalene	ND	230	68	70	2.9	70	74	5.6	30 - 130	30	
2-Methylphenol (o-cresol)	ND	230	68	68	0.0	67	71	5.8	30 - 130	30	
2-Nitroaniline	ND	330	75	80	6.5	70	76	8.2	30 - 130	30	
2-Nitrophenol	ND	230	62	65	4.7	61	61	0.0	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	230	73	74	1.4	71	77	8.1	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	68	70	2.9	47	52	10.1	30 - 130	30	
3-Nitroaniline	ND	330	72	77	6.7	67	69	2.9	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	230	41	28	37.7	33	21	44.4	30 - 130	30	l,m,r
4-Bromophenyl phenyl ether	ND	230	75	75	0.0	66	72	8.7	30 - 130	30	
4-Chloro-3-methylphenol	ND	230	74	76	2.7	76	79	3.9	30 - 130	30	
4-Chloroaniline	ND	230	68	71	4.3	54	51	5.7	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	230	74	73	1.4	70	73	4.2	30 - 130	30	
4-Nitroaniline	ND	230	77	79	2.6	74	83	11.5	30 - 130	30	
4-Nitrophenol	ND	230	80	84	4.9	74	80	7.8	30 - 130	30	
Acenaphthene	ND	230	70	71	1.4	70	76	8.2	30 - 130	30	
Acenaphthylene	ND	130	66	66	0.0	65	71	8.8	30 - 130	30	
Acetophenone	ND	230	63	67	6.2	62	66	6.3	30 - 130	30	
Aniline	ND	330	61	67	9.4	44	46	4.4	30 - 130	30	
Anthracene	ND	230	76	77	1.3	72	78	8.0	30 - 130	30	
Benz(a)anthracene	ND	230	77	81	5.1	75	81	7.7	30 - 130	30	
Benzidine	ND	330	40	42	4.9	<10	<10	NC	30 - 130	30	m
Benzo(a)pyrene	ND	130	80	82	2.5	69	75	8.3	30 - 130	30	
Benzo(b)fluoranthene	ND	160	79	83	4.9	74	82	10.3	30 - 130	30	
Benzo(ghi)perylene	ND	230	81	83	2.4	51	62	19.5	30 - 130	30	
Benzo(k)fluoranthene	ND	230	82	84	2.4	70	76	8.2	30 - 130	30	
Benzoic Acid	ND	330	<10	<10	NC	64	61	4.8	30 - 130	30	l

QA/QC Data

SDG I.D.: GBK10399

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzyl butyl phthalate	ND	230	82	86	4.8	78	83	6.2	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	230	69	70	1.4	66	70	5.9	30 - 130	30	
Bis(2-chloroethyl)ether	ND	130	56	60	6.9	67	67	0.0	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	230	58	63	8.3	58	64	9.8	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	230	80	84	4.9	79	85	7.3	30 - 130	30	
Carbazole	ND	330	76	79	3.9	74	80	7.8	30 - 130	30	
Chrysene	ND	230	81	85	4.8	73	80	9.2	30 - 130	30	
Dibenz(a,h)anthracene	ND	130	79	82	3.7	54	65	18.5	30 - 130	30	
Dibenzofuran	ND	230	72	72	0.0	70	75	6.9	30 - 130	30	
Diethyl phthalate	ND	230	75	78	3.9	71	76	6.8	30 - 130	30	
Dimethylphthalate	ND	230	75	75	0.0	70	75	6.9	30 - 130	30	
Di-n-butylphthalate	ND	230	80	82	2.5	77	81	5.1	30 - 130	30	
Di-n-octylphthalate	ND	230	84	90	6.9	86	96	11.0	30 - 130	30	
Fluoranthene	ND	230	77	80	3.8	73	83	12.8	30 - 130	30	
Fluorene	ND	230	73	74	1.4	72	76	5.4	30 - 130	30	
Hexachlorobenzene	ND	130	71	72	1.4	67	74	9.9	30 - 130	30	
Hexachlorobutadiene	ND	230	60	65	8.0	61	62	1.6	30 - 130	30	
Hexachlorocyclopentadiene	ND	230	56	58	3.5	26	12	73.7	30 - 130	30	m,r
Hexachloroethane	ND	130	52	57	9.2	49	49	0.0	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	79	83	4.9	54	65	18.5	30 - 130	30	
Isophorone	ND	130	64	66	3.1	62	66	6.3	30 - 130	30	
Naphthalene	ND	230	63	66	4.7	64	70	9.0	30 - 130	30	
Nitrobenzene	ND	130	64	69	7.5	64	68	6.1	30 - 130	30	
N-Nitrosodimethylamine	ND	230	50	56	11.3	48	48	0.0	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	130	69	72	4.3	66	70	5.9	30 - 130	30	
N-Nitrosodiphenylamine	ND	130	76	78	2.6	81	83	2.4	30 - 130	30	
Pentachloronitrobenzene	ND	230	72	75	4.1	62	63	1.6	30 - 130	30	
Pentachlorophenol	ND	230	71	66	7.3	71	75	5.5	30 - 130	30	
Phenanthrene	ND	130	76	77	1.3	71	77	8.1	30 - 130	30	
Phenol	ND	230	68	70	2.9	65	69	6.0	30 - 130	30	
Pyrene	ND	230	78	80	2.5	78	85	8.6	30 - 130	30	
Pyridine	ND	230	34	38	11.1	31	32	3.2	30 - 130	30	
% 2,4,6-Tribromophenol	68	%	75	74	1.3	69	74	7.0	30 - 130	30	
% 2-Fluorobiphenyl	65	%	67	66	1.5	63	68	7.6	30 - 130	30	
% 2-Fluorophenol	61	%	62	66	6.3	58	62	6.7	30 - 130	30	
% Nitrobenzene-d5	63	%	63	68	7.6	63	67	6.2	30 - 130	30	
% Phenol-d5	66	%	67	69	2.9	64	68	6.1	30 - 130	30	
% Terphenyl-d14	88	%	83	87	4.7	81	87	7.1	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 324040 (mg/Kg), QC Sample No: BK10176 (BK10403)

TPH by GC (Extractable Products) - Solid

Ext. Petroleum HC	ND	50	64	64	0.0	54			30 - 130	30
% n-Pentacosane	63	%	81	88	8.3	73			50 - 150	30

QA/QC Batch 324287 (ug/Kg), QC Sample No: BK10389 2X (BK10399, BK10400)

Pesticides - Solid

4,4' -DDD	ND	1.7	68	77	12.4	68	67	1.5	40 - 140	30
4,4' -DDE	ND	1.7	72	83	14.2	72	70	2.8	40 - 140	30
4,4' -DDT	ND	1.7	69	78	12.2	72	70	2.8	40 - 140	30
a-BHC	ND	1.0	64	78	19.7	58	56	3.5	40 - 140	30
a-Chlordane	ND	3.3	66	76	14.1	77	75	2.6	40 - 140	30

QA/QC Data

SDG I.D.: GBK10399

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Aldrin	ND	1.0	62	74	17.6	80	79	1.3	40 - 140	30	
b-BHC	ND	1.0	64	75	15.8	70	73	4.2	40 - 140	30	
Chlordane	ND	33	74	82	10.3	68	62	9.2	40 - 140	30	
d-BHC	ND	3.3	59	66	11.2	56	54	3.6	40 - 140	30	
Dieldrin	ND	1.0	69	79	13.5	73	73	0.0	40 - 140	30	
Endosulfan I	ND	3.3	69	78	12.2	76	73	4.0	40 - 140	30	
Endosulfan II	ND	3.3	69	79	13.5	72	72	0.0	40 - 140	30	
Endosulfan sulfate	ND	3.3	68	76	11.1	63	65	3.1	40 - 140	30	
Endrin	ND	3.3	63	73	14.7	70	68	2.9	40 - 140	30	
Endrin aldehyde	ND	3.3	70	74	5.6	73	77	5.3	40 - 140	30	
Endrin ketone	ND	3.3	75	84	11.3	74	75	1.3	40 - 140	30	
g-BHC	ND	1.0	67	80	17.7	55	57	3.6	40 - 140	30	
g-Chlordane	ND	3.3	74	82	10.3	68	62	9.2	40 - 140	30	
Heptachlor	ND	3.3	68	81	17.4	65	62	4.7	40 - 140	30	
Heptachlor epoxide	ND	3.3	67	77	13.9	64	61	4.8	40 - 140	30	
Methoxychlor	ND	3.3	70	78	10.8	76	76	0.0	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	91	%	75	71	5.5	78	75	3.9	30 - 150	30	
% TCMX	83	%	65	79	19.4	67	61	9.4	30 - 150	30	
QA/QC Batch 324061 (ug/Kg), QC Sample No: BK10391 2X (BK10399, BK10400)											
Chlorinated Herbicides - Solid											
2,4,5-T	ND	8.3	68	65	4.5	48	34	34.1	40 - 140	30	r
2,4,5-TP (Silvex)	ND	8.3	50	44	12.8	38	97	87.4	40 - 140	30	r
2,4-D	ND	8.3	45	44	2.2	57	49	15.1	40 - 140	30	
2,4-DB	ND	67	76	82	7.6	91	129	34.5	40 - 140	30	r
Dalapon	ND	8.3	40	43	7.2	31	32	3.2	40 - 140	30	
Dicamba	ND	17	88	92	4.4	63	79	22.5	40 - 140	30	
Dichloroprop	ND	8.3	44	47	6.6	43	Intf	NC	40 - 140	30	
Dinoseb	ND	17	68	74	8.5	58	119	68.9	40 - 140	30	r
% DCAA (Surrogate Rec)	70	%	65	68	4.5	54	62	13.8	30 - 150	30	
QA/QC Batch 324041 (ug/Kg), QC Sample No: BK10391 2X (BK10399, BK10400)											
Polychlorinated Biphenyls - Solid											
PCB-1016	ND	33	103	86	18.0	59	93	44.7	40 - 140	30	r
PCB-1221	ND	33							40 - 140	30	
PCB-1232	ND	33							40 - 140	30	
PCB-1242	ND	33							40 - 140	30	
PCB-1248	ND	33							40 - 140	30	
PCB-1254	ND	33							40 - 140	30	
PCB-1260	ND	33	101	85	17.2	65	91	33.3	40 - 140	30	r
PCB-1262	ND	33							40 - 140	30	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	100	%	107	92	15.1	69	115	50.0	30 - 150	30	r
% TCMX (Surrogate Rec)	97	%	107	92	15.1	71	101	34.9	30 - 150	30	r
QA/QC Batch 324131 (ug/kg), QC Sample No: BK10402 (BK10401, BK10402)											
Volatiles - Solid											
1,1,1,2-Tetrachloroethane	ND	5.0	107	111	3.7	100	101	1.0	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	101	105	3.9	96	97	1.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	106	107	0.9	103	102	1.0	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	96	97	1.0	93	91	2.2	70 - 130	30	
1,1-Dichloroethane	ND	5.0	97	99	2.0	92	93	1.1	70 - 130	30	
1,1-Dichloroethene	ND	5.0	109	112	2.7	94	91	3.2	70 - 130	30	

QA/QC Data

SDG I.D.: GBK10399

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,3-Trichlorobenzene	ND	5.0	109	112	2.7	89	98	9.6	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	113	115	1.8	94	101	7.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	104	103	1.0	93	93	0.0	70 - 130	30	
1,2-Dibromoethane	ND	5.0	105	107	1.9	98	95	3.1	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	105	106	0.9	100	100	0.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0	101	102	1.0	96	95	1.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	96	98	2.1	93	91	2.2	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	106	106	0.0	100	100	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	104	105	1.0	99	99	0.0	70 - 130	30	
2-Hexanone	ND	25	92	93	1.1	87	82	5.9	70 - 130	30	
4-Methyl-2-pentanone	ND	25	90	92	2.2	85	85	0.0	70 - 130	30	
Acetone	ND	10	83	83	0.0	61	61	0.0	70 - 130	30	m
Acrolein	ND	25	95	97	2.1	83	81	2.4	70 - 130	30	
Acrylonitrile	ND	5.0	97	95	2.1	92	90	2.2	70 - 130	30	
Benzene	ND	1.0	97	98	1.0	93	94	1.1	70 - 130	30	
Bromochloromethane	ND	5.0	98	102	4.0	92	92	0.0	70 - 130	30	
Bromodichloromethane	ND	5.0	104	106	1.9	98	96	2.1	70 - 130	30	
Bromoform	ND	5.0	108	111	2.7	99	97	2.0	70 - 130	30	
Bromomethane	ND	5.0	111	116	4.4	80	87	8.4	70 - 130	30	
Carbon Disulfide	ND	5.0	111	113	1.8	96	95	1.0	70 - 130	30	
Carbon tetrachloride	ND	5.0	103	106	2.9	98	96	2.1	70 - 130	30	
Chlorobenzene	ND	5.0	102	105	2.9	97	98	1.0	70 - 130	30	
Chloroethane	ND	5.0	110	112	1.8	61	62	1.6	70 - 130	30	m
Chloroform	ND	5.0	100	102	2.0	93	93	0.0	70 - 130	30	
Chloromethane	ND	5.0	88	89	1.1	86	87	1.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	102	100	2.0	92	94	2.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	100	102	2.0	93	94	1.1	70 - 130	30	
Cyclohexane	ND	5.0	99	102	3.0	94	97	3.1	70 - 130	30	
Dibromochloromethane	ND	3.0	108	111	2.7	97	98	1.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	104	104	0.0	103	105	1.9	70 - 130	30	
Ethylbenzene	ND	1.0	104	107	2.8	99	99	0.0	70 - 130	30	
Isopropylbenzene	ND	1.0	105	105	0.0	100	100	0.0	70 - 130	30	
m&p-Xylene	ND	2.0	105	106	0.9	97	98	1.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	82	85	3.6	79	79	0.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	104	107	2.8	96	96	0.0	70 - 130	30	
Methylacetate	ND	5.0	101	101	0.0	94	93	1.1	70 - 130	30	
Methylcyclohexane	ND	5.0	100	102	2.0	99	98	1.0	70 - 130	30	
Methylene chloride	ND	5.0	80	82	2.5	76	76	0.0	70 - 130	30	
o-Xylene	ND	2.0	104	105	1.0	97	98	1.0	70 - 130	30	
Styrene	ND	5.0	104	107	2.8	98	98	0.0	70 - 130	30	
tert-butyl alcohol	ND	100	103	111	7.5	106	98	7.8	70 - 130	30	
Tetrachloroethene	ND	5.0	99	103	4.0	96	97	1.0	70 - 130	30	
Toluene	ND	1.0	100	102	2.0	96	96	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	110	114	3.6	102	102	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	100	102	2.0	92	93	1.1	70 - 130	30	
Trichloroethene	ND	5.0	102	103	1.0	97	99	2.0	70 - 130	30	
Trichlorofluoromethane	ND	5.0	106	111	4.6	45	46	2.2	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	111	114	2.7	96	98	2.1	70 - 130	30	
Vinyl chloride	ND	5.0	100	101	1.0	99	99	0.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	98	97	1.0	98	97	1.0	70 - 130	30	
% Bromofluorobenzene	96	%	100	102	2.0	100	100	0.0	70 - 130	30	
% Dibromofluoromethane	100	%	102	101	1.0	97	99	2.0	70 - 130	30	
% Toluene-d8	100	%	99	99	0.0	99	99	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBK10399

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
October 27, 2015

Sample Criteria Exceedences Report

GBK10399 - AMC-ENG

Criteria: NJ: NRC, RC; NY: 375, 375GWP, 375RRS, 37

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BK10399	$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	19	2.3	3.3	3.3	ug/Kg
BK10399	$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	8.2	2.3	3.3	3.3	ug/Kg
BK10399	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	32.0	0.35	30		mg/Kg
BK10399	NI-SM	Nickel	NY / 375-6.8 Metals / Ground Water Protection	204	3.5	130	130	mg/Kg
BK10399	NI-SM	Nickel	NY / 375-6.8 Metals / Residential	204	3.5	140	140	mg/Kg
BK10399	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	204	3.5	30	30	mg/Kg
BK10399	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	85.9	0.35	63	63	mg/Kg
BK10400	$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	16	2.3	3.3	3.3	ug/Kg
BK10400	$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	9.0	2.3	3.3	3.3	ug/Kg
BK10400	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	33.7	0.36	30		mg/Kg
BK10400	NI-SM	Nickel	NY / 375-6.8 Metals / Ground Water Protection	167	3.6	130	130	mg/Kg
BK10400	NI-SM	Nickel	NY / 375-6.8 Metals / Residential	167	3.6	140	140	mg/Kg
BK10400	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	167	3.6	30	30	mg/Kg
BK10400	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	63.4	0.36	63	63	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY Temperature Narration

October 27, 2015

SDG I.D.: GBK10399

The samples in this delivery group were received at 5°C.
(Note acceptance criteria is above freezing up to 6°C)

PHOENIX Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

5°w/ice

Temp

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery:
☐ Fax #:
☑ Emai ARIEL@AMC-ENGINEERING.COM

Customer:	AMC ENGINEERING PLLC	Project:	PS 52R	Project P.O:	
Address:	99 JERICHO TURNPIKE STE. 300J	Report to:	ARIEL CZEMERINSKI	Phone #:	516 417-8588
	JERICHO NY 11753	Invoice to:	AMC ENGINEERING PLLC	Fax #:	516 706-3214

Sampler's Signature: [signature] Date: 10/16/2015

Client Sample Information - Identification

Matrix Code:
DW=drinking water **WW**=wastewater **S**=soil/solid **O**=oil
GW=groundwater **SL**=sludge **A**=air **X**=other

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	TCLP Metals (EPA 1311/6010)	RCRA Charact (Ignit., React., Corr, pH, *****)	TAL Metals (6010)	PCB (EPA 8082A)	Herb/Pest (NJDEP+TCL/TAL) EPA8081A/8151A	TPH (8015M)	SVOC (8270)	Paint Filter	VOC (8260)				Soil VOA [X] Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container (8) oz	GL Soil container (2) oz	40 ml VOA Vial [ ] As is [x] HCl	GL Amber 1000ml [x] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Encore
10399	C1	S	10/16/2015	9:00 AM	X	X	X	X	X		X	X						2								
10400	C2	S	10/16/2015	9:00 AM	X	X	X	X	X		X							2								
10401	GR1	S	10/16/2015	9:00 AM									X						1							
10402	GR2	S	10/16/2015	9:00 AM									X						1							
10403	TPH	S	10/16/2015	9:00 AM						X								1								

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	10-19-15	11:15
[signature]	[signature]	10-19-15	16:34

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ Standard
■ Other 5 DAYS
* SURCHARGE APPLIES

NJ
■ Res. Criteria
■ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ GW Criteria

NY
☐ TAGM 4046 GW
☐ TAGM 4046 SOIL
■ NY375 Unrestricted Soil
■ NY375 Residential Soil
■ NY375 Restricted Non-Residential Soil

Data Format
☐ Phoenix Std Report
■ Excel
■ PDF
☐ GIS/Key
☐ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other _____

Data Package
☐ NJ Reduced Deliv. *
☐ NY Enhanced (ASP B) *
☐ Other

State where samples were collected: NY

Comments, Special Requirements or Regulations:

44

***** (sulfide and cyanide) - EPA 9040C, 1010A, and SW846, Ch.7.3

CLEANEARTH

Faster, smarter, greener solutions...

November 19, 2015

Mike Fazio
MDF Contracting Corporation
220 Tysens Lane,
Staten Island, NY 10306

Re: Pre-acceptance letter for NYC SCA PS # 52R | 450 Buel Avenue, Staten Island, NY 10305

Dear Mr. Fazio,

Clean Earth of Carteret, LLC. (CEC) is pleased to provide you with this pre-acceptance letter for Non-hazardous material being generated for offsite disposal from the site referenced above. We reviewed the analytical results performed by Phoenix Environmental Laboratories, Inc. (SDG No.: GBK10399) for the above referenced site. Based upon the review of the data provided, CEC can accept the non-hazardous petroleum contaminated soil being generated from the site. CEC's acceptance criteria limits us to accept only Non Hazardous petroleum (<1% by volume) impacted soils into our facility. Any soils with free petroleum product or liquids, sludge, or hazardous waste cannot be accepted.

Please note that provided laboratory data package is short on TPH analysis for estimated quantity. In the event the volume exceeds approved tonnages, our facility is permitted to analyze missing parameters by collecting soil samples from incoming loads. Please note that TPH analysis (every 150 Tons) will be required to comply with CEC's Class B permit. In the essence of saving time, CEC will collect the additional TPH samples as required upon arrival at the facility to meet the CEC analytical requirements. CEC will amend the invoice accordingly.

Final acceptance into CEC is contingent upon receipt of a completed signed profile sheet by the generator. This pre-approval is based upon material being accurately represented by all information provided to CEC at the time of the final approval, including, but not limited to, analysis, site diagrams, site history, and sampling plans. Please provide the approval number when scheduling and include the grid no. on all manifests when shipping soils to CEC. Please be advised that should the material be found to be non-conforming based on our facility permit requirements, CEC will contact you to discuss next steps.

Processing of the soil will be performed under NJDEP Recycling Center Permit No. CBG100002.

Sincerely,
Clean Earth of Carteret, LLC.

Tejas R. Shah
Technical Approvals Manager
Ph.: 732-541-8909
Email: tshah@cleanearthinc.com